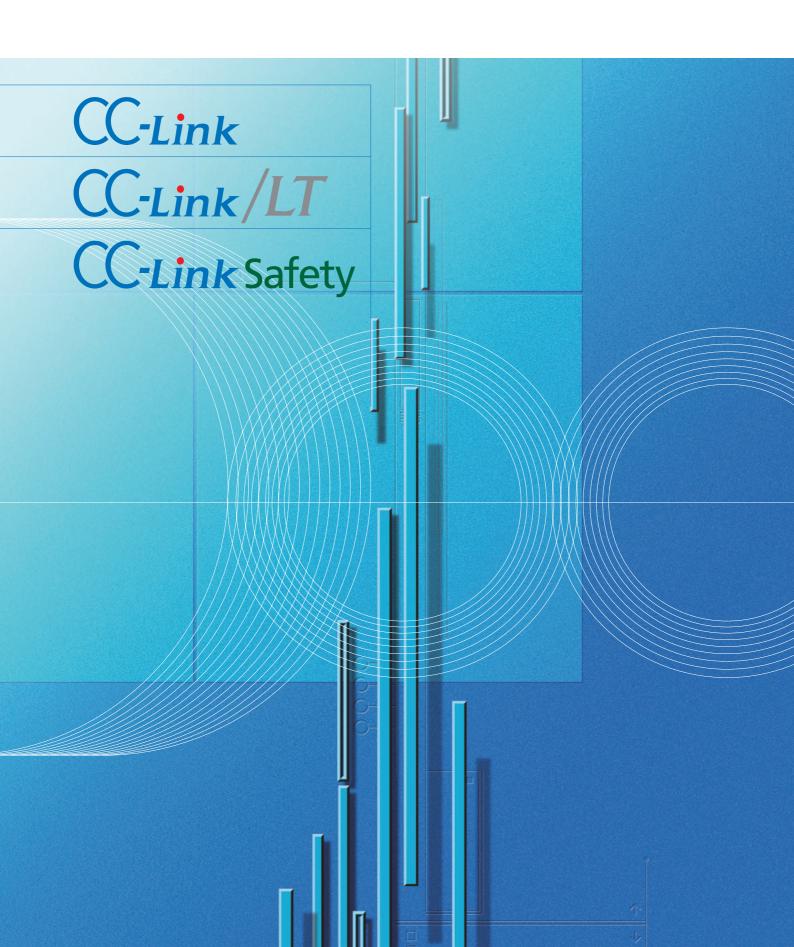
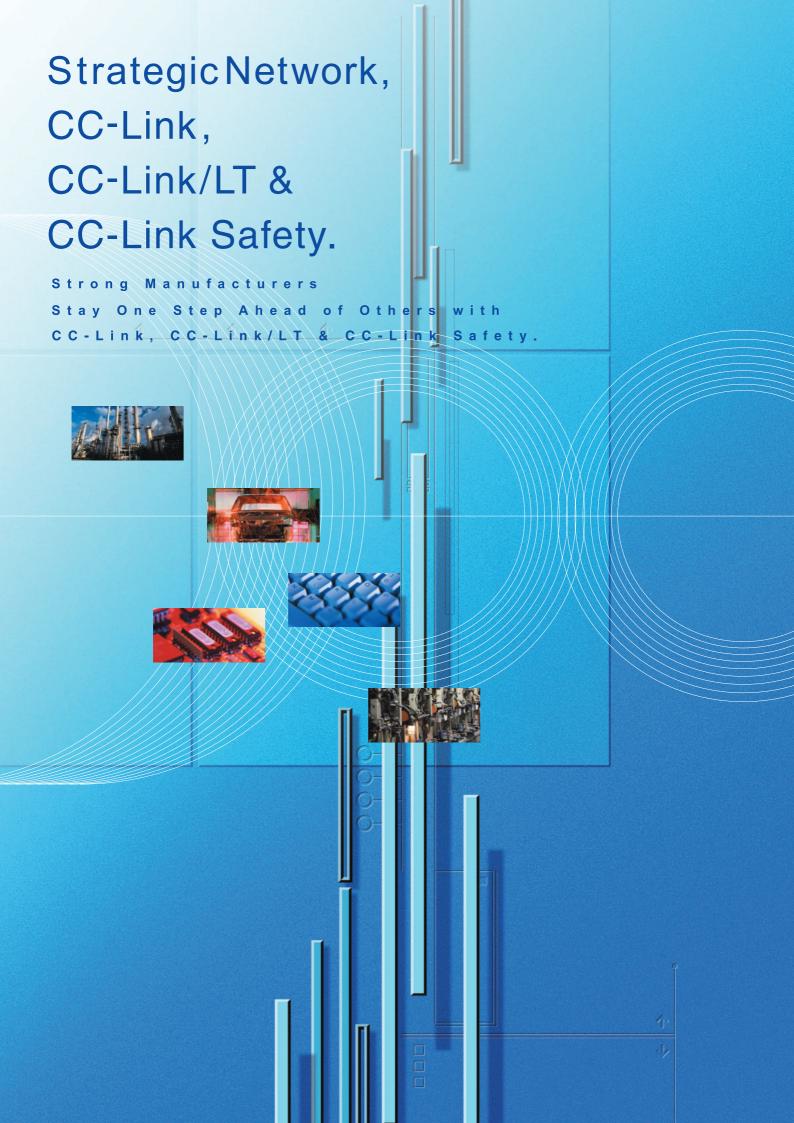




Open Field Network CC-Link Compatible Product Catalog





CC-Link CC-Link/LT CC-Link Safety

Connect with reliable networks for powerful factory automation.

INDEX

| Concept — 3 to 22 |
|--------------------------------------|
| Products |
| <cc-link></cc-link> |
| Master/local modules - 23 |
| Bridge modules —— 24 |
| Remote I/O modules — 25 |
| Safety relay modules – 30 |
| Safety controller —— 30 |
| Analog modules —— 31 |
| Others — 32 |
| |
| <cc-link safety=""></cc-link> |
| Master module ——— 35 |
| Remote I/O modules — 36 |
| |
| <cc-link lt=""></cc-link> |
| Master/bridge modules – 37 |
| Remote I/O modules — 38 |
| Analog modules —— 40 |
| Others ————41 |
| |
| <development tools=""></development> |
| Embedded modules — 42 |
| |
| <other></other> |
| Specifications ———43 |
| 01.04 |

Support —

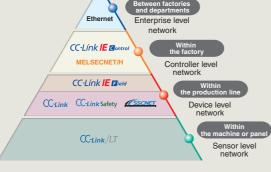
Product List —



Opening up the Future of FA Networks and Focusing on what's

We provide total support in constructing seamless networks in all scenes, from offices to production sites, under a consistent design philosophy. With flexible approaches backed by "Ethernet," "MELSECNET/H" and "CC-Link", a SEMI-certified, world standard field network originated in Japan, and "CC-Link/LT", a sensor level network adhering to the design concept of CC-Link, we propose a network-based FA environment, fit for your needs.

Seamless integration of the network over all layers Between factories and departments Enterprise level network CC-Link | E gontrol Within the factory



[Within line] Device level network CC-Link

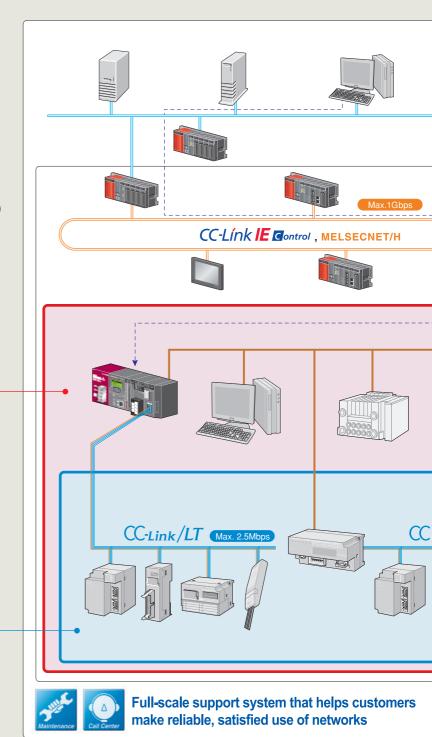
CC-Link is a high-speed field network capable of controlling the system and handling information at the same time, and offers high-speed, reliable input/output response and highly flexible expandability. This distinguished performance the network earned SEMI certification. A Japanese-origin, world standard open field network, CC-Link holds a large market share and has been winning the confidence of customers.

- High-speed communication at a maximum baud rate of 10 Mbps
- Remote input/output (RX, RY): 8,192 points each Remote register (RWw): 2,048 words (RWr): 2,048 words (when CC-Link Ver. 2.0 is used)
- Integration with 3rd party manufacture products

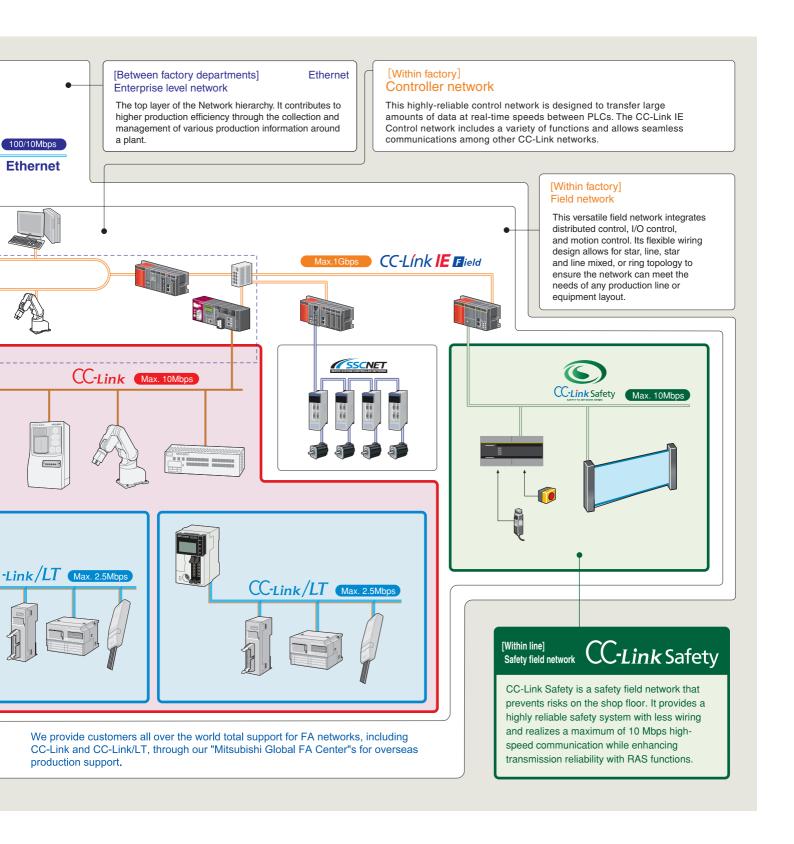
[Within panel and devices] CC-Link/LT

CC-Link/LT is a sensor level network designed so that all production sites are free from complicated wiring or incorrect wiring. It inherits openness, high speed, and noise resistance from the CC-Link family and at the same time ensures reduced wiring because of its simple setting and easy installation.

- Easy installation using dedicated connectors
- The adoption of point number modes (four points, eight points, 16 points) permits effective use of I/O points.
- The maximum number of link points is 1,024 in 16-point mode.

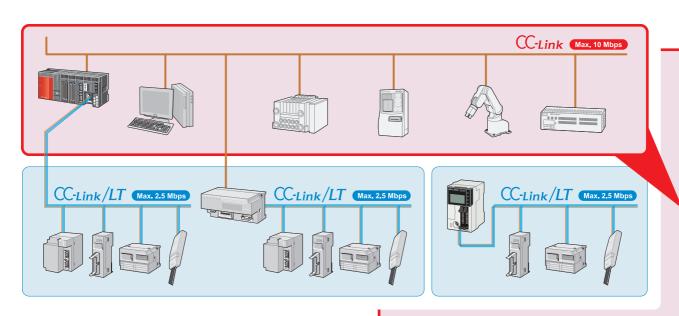


to come. Changes for the better - Mitsubishi Electric

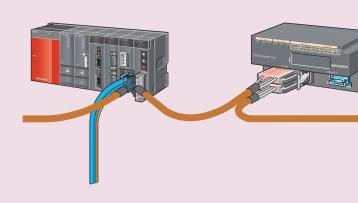


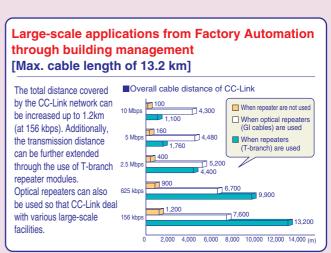


CC-Link - Proceeding toward a World Standard Network



| | CC-Link | CC-Link/LT | | | |
|-----------------------------------|--|---|--|--|--|
| Control methods | I/O control + intelligent distribution | I/O control | | | |
| Cable | Dedicated fixed cable, dedicated flexible cable, built-in power cable | Dedicated flat cable, VCTF (Vinyl Cabtire Code), dedicated flexible cable | | | |
| Maximum number of link points | RX,RY: 8192 points each, RWr: 2048 words, RWw: 2048 words (Ver2.0) | RX,RY: 1024 points each | | | |
| I/O Module Line-up | Screw terminal block, spring terminal block, e-CON, Push-in connector, waterproof connector, 40-pin connector | Screw terminal block, spring terminal block, e-CON, MIL connector, cable connector | | | |
| Max. cable distance | 1200 m (at 156 kbps) Extendable up to 13.2 km when repeater is used | Trunk: 500 m Branch: 200 m (at 156 kbps) | | | |
| Parameter setup | GX Developer, GX Works2 | Not required | | | |
| Number of link points per station | <ver1.0> RX,RY: 32 points each, RWr: 4 words, RWw: 4 words <ver2.0> RX,RY: 128 points each, RWr: 32 words, RWw: 32 words</ver2.0></ver1.0> | Max, 16 points (in 16-point mode) | | | |
| Network topology | Bus topology T-branch topology Star topology | T-branch topology | | | |





For improved setup efficiency [Simple parameter setup]

You can set parameters on CC-Link using only the MELSEC total programming tool "GX Developer." You can significantly reduce program size and efficiently set parameters.



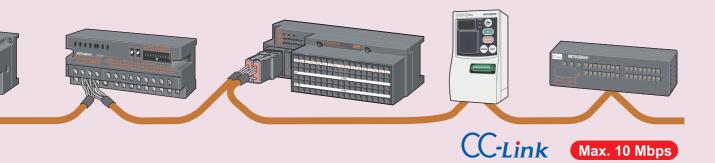
For achieving complex control, high-mix low-volume production

[High-speed, high-capacity transmission]

CC-Link is a high-performance network that utilizes high-speed communications (10 Mbps -top level in the industry-), in order to allow transmission of bit data and word data at high-speed and maximum capacity.

For a simple and cost effective network [Reduced-wiring network]

CC-link realizes simple and cost-effective network, and it is designed to relieve production lines from complicated wiring.



A diverse range of products from partner manufacturers [Multi-vendor system]

More than 900 types of products are supplied from more than 1000 companies worldwide.

For non-stop operation [RAS functions]

CC-Link equips full RAS functionality by functions like Standby Master, Automatic Return, Slave Station Isolation and Diagnostics/Link Status Confirmation.



For improved network reliability

[Consistent network communication time]

CC-link guarantees the fixed cyclic transmission time and the cyclic transmission time is not affected by irregular message transmission. It is therefore possible to achieve highly stable control.

- -O- Remote I/O station only
 -O- Remote device station only
- (when each station occupies 1 station)

 Local node/intelligent device station only (when each station occupies 1 station)

CC-Link Link Scan Time (at communication speed of 10 Mbps)

6

9

9

9

1

1

0

0

20

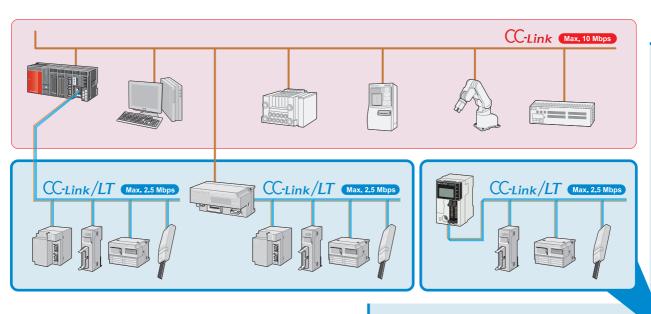
40

60

Number of modules [modules]



CC-Link/LT - in pursuit of benefits through wire saving.



| | CC-Link | CC-Link/LT | | | |
|--|--|--|--|--|--|
| Control methods | I/O control + intelligent distribution | I/O control | | | |
| Cable | Dedicated fixed cable, dedicated flexible cable, dedicated built-in power supply | Dedicated flat cable, VCTF (Vinyl Cabtire Code), dedicated flexible cable | | | |
| Maximum number of link points | RX,RY: 8192 points each, RWr: 2048 words, RWw: 2048 words (Ver2.0) | RX,RY: 1024 points each | | | |
| I/O Module Line-up | Screw terminal block, spring terminal block, e-CON, Push-in connector, waterproof connector, 40-pin connector | Screw terminal block, spring terminal block, e-CON, MIL connector, cable connector Trunk: 500 m Branch: 200 m (at 156 kbps) | | | |
| Max. cable distance | 1200 m (at 156 kbps) Extendable up to 13.2 km when repeater is used | | | | |
| Parameter setup | GX Developer, GX Works2 | Not required | | | |
| Number of link points per station | <ver1.0> RX,RY: 32 points each, RWr: 4 words, RWw: 4 words <ver2.0> RX,RY: 128 points each, RWr: 32 words, RWw: 32 words</ver2.0></ver1.0> | Max, 16 points (in 16-point mode) | | | |
| Network topology | Bus topology T-branch topology Star topology | T-branch topology | | | |



Ousing dedicated connectors and cables can reduce wiring works. Ocommunication connectors are a male/female integrated type and available for all trunk and branch lines.

For Easy usage

[No need of parameter settings]

Troublesome network parameter setting is unnecessary. The communication speed setting is required for the master module only.

For High noise-resistance [Complying with EMC Directives]

CC-Link/LT also inherits the feature of CC-Link, complies with EMC directives for noise-resistance.

For Efficient use of I/O points [No wasting surplus I/O points]

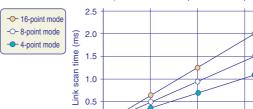
The adoption of the point mode (4, 8, 16 points) enables I/O assignment that makes full utilization of the available number of points.

For high-speed control [fast response]

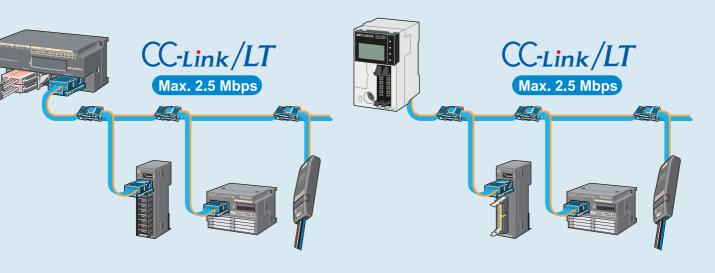
When 64 stations are connected, link scan time is a maximum of 1.2 ms(at 2.5Mbps), achieving excellent fast response performance.

Number

■CC-Link/LT Link Scan Time (at communication speed of 2.5 Mbps)

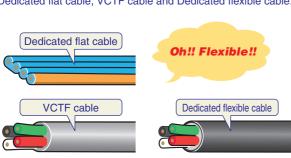


0



Cable specific to application requirements [extensive lineup of cables]

Dedicated flat cable, VCTF cable and Dedicated flexible cable.



Improving reliability [prevention of miswiring] Dedicated cable shape is designed to prevent miswiring. The orange wire is visible when inserted the wrong way. Orange indicates NG (No Good).



Innovation in shop floor safety, CC-Link Safety

A safety field network "CC-Link Safety" has been developed to reduce risks on the shop floor and to realize a safe work environment. By connecting "safety devices," which detect errors in the production line, and the "safety programmable controller," which stops the production line by signals from the safety devices, with simple wiring, accidents can be prevented during operation. In addition, CC-Link Safety can greatly reduce wiring for the safety system.

Hazards of production lines







Enclosing hazards in a safety guard is not good enough. Also, worker mistakes and machine failures are unpredictable. That is why configuring a system with a "safety solution" which always prevents accidents is necessary.



Safety solution example



World wide safety

[International safety standards compliant]

Conforms to the international safety standards IEC61508 SIL3 and EN954-1/ISO13849-1 Category 4 to meet safety needs at global production sites.

Safety assurance and wiring reduction [Inherited CC-Link functions]

Transmission speed of 10 Mbps equivalent to CC-Link is realized, allowing use of the same CC-Link cables and connection of standard CC-Link stations.

Reliable safety control [Enhanced RAS functions]

Detects communication errors such as communication delays and lost of messages and then stops the system completely.

Centralized error/failure information management [Error/failure logs]

With the RAS functions, the safety master station logs error information of safety remote stations, enabling effective troubleshooting. The system is completely stopped upon communication error detection.

Provision for troubles

[Identifying the communication target station]

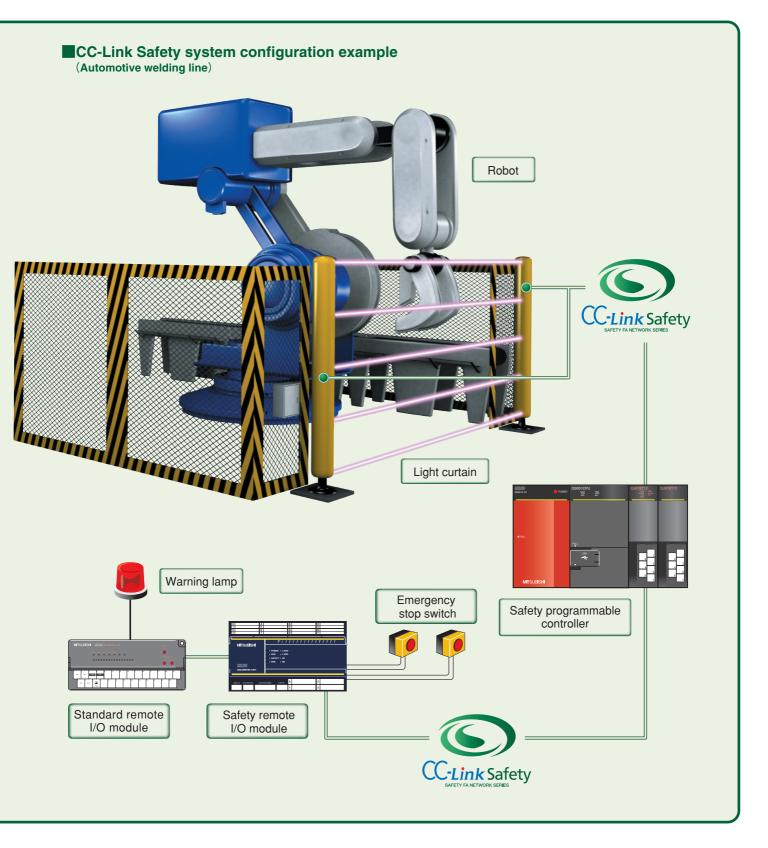
By setting the model name or product information of safety remote stations with the network parameters, the system can detect mismatch communication targets.

Flexible system configuration and wiring [Distributed safety remote stations]

Safety remote I/O stations can be spread out, minimizing wiring for I/O. Expanding I/O is also easy.

A large choice of safety system configuration [Various compatible products]

Mitubishi Electric and many other CLPA partners provide a variety of compatible products including a programmable controller, light curtains, and warning lamps. Moreover, the same CC-Link cables and standard CC-Link stations can be used.

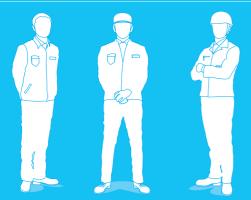




For those in design, production and maintenance

CC-Link & CC-Link/LT provide

CC-Link & CC-Link/LT provide solutions for each subject in the field.



Each person in charge of engineering, production and maintenance has his/her own subjects.

CC-Link and CC-Link/LT respond to each subject with a solution.

CC-Link is an established open field network originated from Japan.

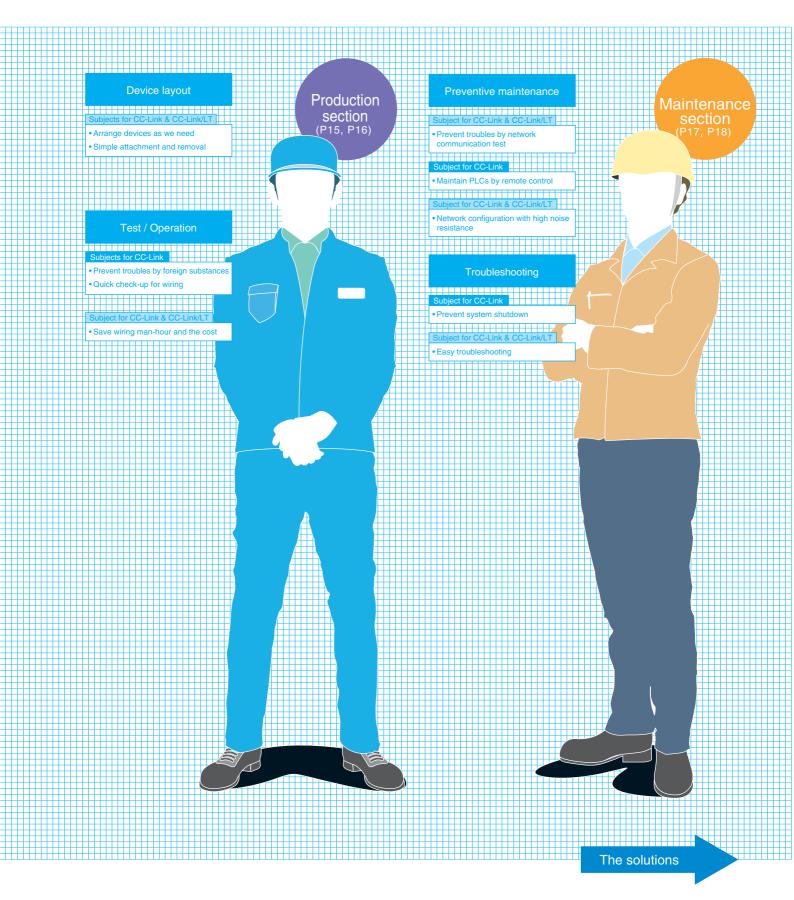
Fully inheriting the CC-Link concept,

CC-Link/LT is specifically designed as a sensor level network.

CC-Link and CC-Link/LT provide a function for each subject on the network.

More functions Engineering Connect with lots of analog device Distributed control system Connect between manufacturing Network configuration for building Connect with HMIs and ANDONs • Use inverters and servos More simple biects for CC-Link Use various devices Easy network configuration Use remote I/O modules Apply widely used cables More secure Use various devices in a single Export factory facilities and

solutions







CC-Link & CC-Link/LT support the facility improvement

CC-Link ensures

Flexible production system

► CC-Link is a high-speed and high-capacity network.

CC-Link is a high speed field network that can handle both control and information together.

■ High-speed/High-capacity data transmission



<High-capacity Cyclic Transmission Data>

Data capacity

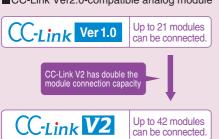
Remote I/O (RX, RY)=8192 points each
Remote register (RWw)=2048 words
(RWr)=2048 words (when Ver2.0 is used)

Connect with lots of analog devices

► CC-Link 122 supports an extra broader range of needs.

CC-Link Ver.2 can control maximum eight times the data capacity compared with earlier CC-Link compatible products. CC-Link Ver.2 compatible analog modules are applicable to process control.

■CC-Link Ver2.0-compatible analog module



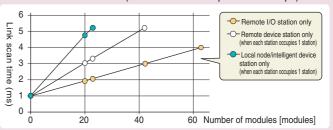


Complex system controls

CC-Link guarantee consistent communication time.

The cyclic transmission time is not affected by irregular message transmission to the HMI products. It is possible to achieve highly stable control.

■CC-Link Link Scan Time (at communication speed of 10 Mbps)

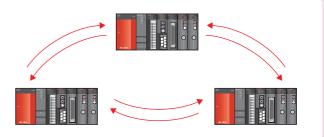


Distributed control system

▶ CC-Link realizes simple distributed control.

CC-Link provides highly stable cyclic transmission, which enables N:N communication between controller masters or local stations. This N:N communication method between controllers realizes a distributed control system for each system.

■ Simple controller communication



CC-Link/LT ensures

High-speed sensor inputs

►CC-Link/LT provides fast response.

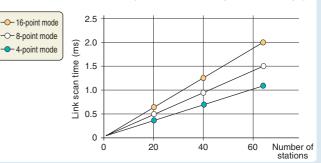
When 64 stations are connected, the link scan time is a maximum of 1.2ms (at 2.5Mbps). Select 2.5Mbps, 625kbps or 156kbps depending on the transmission distance.

Use remote I/O modules

►CC-Link/LT is not required to make parameter setting.

Troublesome network parameter setting is unnecessary. The communication speed setting is required for the master module only. There is no need to set the communication speed on the remote station.

■CC-Link/LT Link Scan Time (at communication speed of 2.5 Mbps)



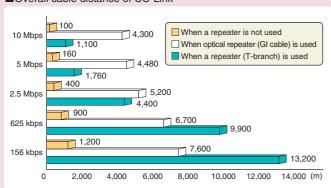


- Connect between manufacturing processes
- Network configuration for building management
- ► The total extended distance of the CC-Link cable is 1,200 m, and can be extended up to 13.2 km when repeaters are used.

CC-Link total extended distance can be as long as 1.2 km*. The transmission distance can be extended up to 13.2 km* when T-branch repeaters are used.

* Maximum transmission distance when transmission speed is set to 156 kbps.

■Overall cable distance of CC-Link

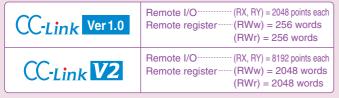


Use various devices

► CC-Link can control up to 8192 points and 4096 words.

CC-Link Ver2.0 can transmit a maximum of eight times the data capacity compared with earlier CC-Link compatible products.

■Comparison of communication data



Connect with HMIs and ANDONs

► CC-Link can connect HMIs and ANDONs by transient transmission.

CC-Link simplifies data transfer to HMIs and ANDON with transient transmission (up to 960 bytes) and cyclic transmission.

Easy network configuration

► CC-Link parameter setting can be done with only GX Developer.

The total programming tool "GX Developer" with improved operability. Makes full use of the advantages of Windows® and enables you to set CC-Link parameters without a program.

Reliable network

► CC-Link achieves high reliability with dedicated cables.

CC-Link uses dedicated cables that support high-speed transmission up to 10 Mbps. These cables are also highly noise-resistant.

■CC-Link dedicated cable



Apply widely used cables

► CC-Link/LT specifies cables to application requirements. Dedicated flat cable, VCTF cable and dedicated flexible cable are available.



CC-Link also supports

Use inverters and servos

► CC-Link allows GX Configurator-CC to read and write drives and servo parameters without a program, and perform monitoring and testing.

Use various devices in a single network

► Diverse range of products supplied from many partner manufacturers.

Export factory facilities and machineries overseas

► CC-Link complies with various safety standards including UL standards.

* For details, refer to MELFANSweb.



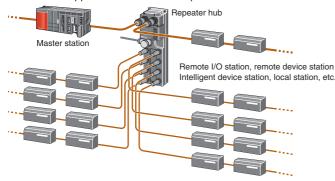


CC-Link & CC-Link/LT provide various useful functions

Device layout as we need

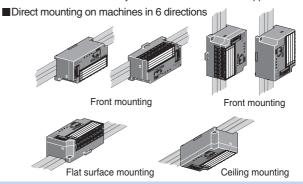
► CC-Link allows flexible installation.

T-branch repeaters, wireless optical repeaters, optical repeaters, and repeater hubs are available with CC-Link. They enhance the freedom of application even at 10 Mbps.



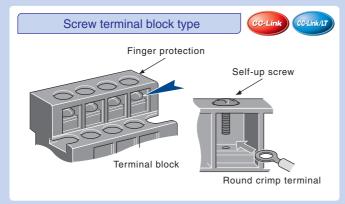
► CC-Link family remote I/O modules occupy a small footprint.

Compact type remote I/O modules with 32, 16, 8, 4, and 2 I/O points are available. They can be mounted in six different directions, including ceiling mounting, front mounting, and flat surface mounting, and selected according to the environment where they are to be mounted and the application.



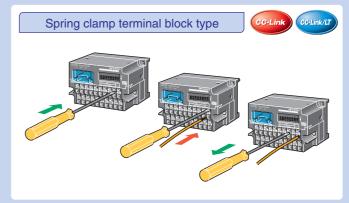
Save wiring man-hour and the cost

Dedicated connectors of CC-Link family are designed to reduce wiring works, cost and wiring mistakes.

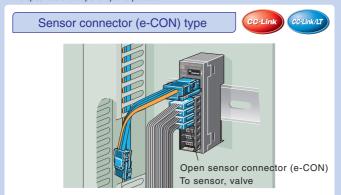


The round crimp terminal can be directly connected with the self-up screw by simply unfastening the terminal block screw.

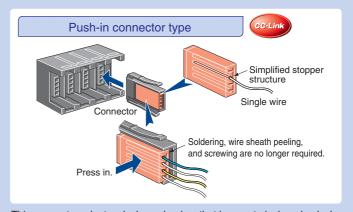
* The specifications depend upon a product.



Spring clamps allows for quick and easy connectivity.



Utilizing the industry-standard e-CON, sensors can be replaced individually.



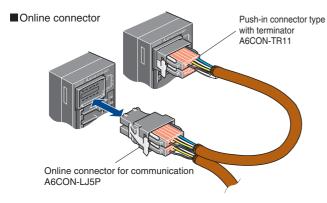
This connector adopts a lock mechanism that is easy to lock and unlock. You can connect single wires by simply pushing in the connector.



Simple attachment and removal

►CC-Link family products allows easy connection.

By using online connectors for communication and power supply, it is possible to replace modules without stopping the communication.



Prevent troubles from foreign substances

► CC-Link protective cover protects I/O terminals.

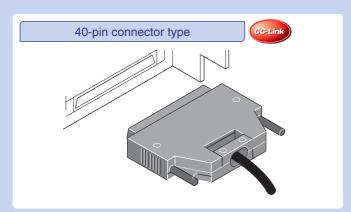
The protective cover can be easily attached and removed. The transparent material allows you to check the LEDs and wiring conditions.

Quick checkup and startup

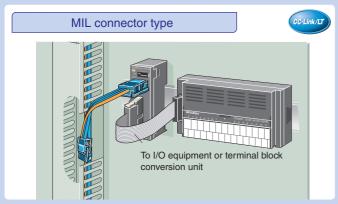
▶CC-Link ensures easy setup and startup.

CC-Link's auto-startup function allows you to start up the network without the need to set network parameters.

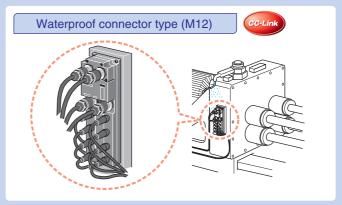
► Specific connection to application requirements



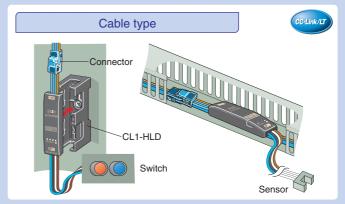
This type provides an easy and economical way of wiring.



This is the industry's smallest connector in its class, and can be easily connected to a relay terminal or terminal block conversion module.



The waterproof type remote I/O module is housed in a protective structure conforming IP67. therefore it can be used without worry in an environment where water is present.



This is the industry's smallest connector in its class. Suited to fit compactly into main trunking ducts.





CC-Link & CC-Link/LT supports the maintenance work

Preventive maintenance

Prevent troubles by network communication test

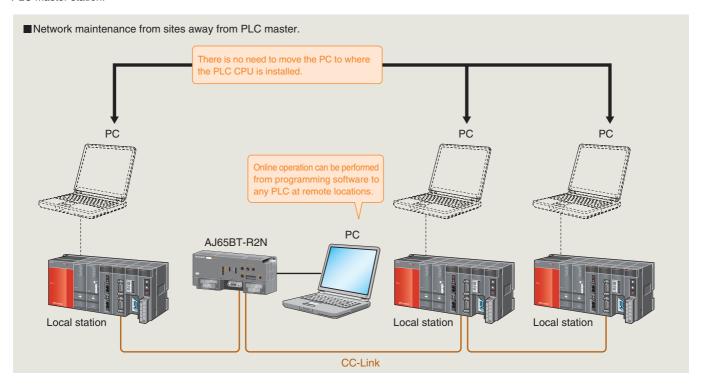
► CC-Link family products provides one-step-ahead preventive maintenance.

It is possible to check the data link status using special relays and registers. Hardware and line connection can be tested via offline tests.

Maintain PLCs by remote control

► CC-Link provides remote operation functions.

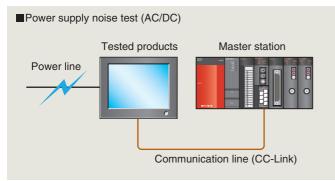
By using the RS-232 interface module (AJ65BT-R2N) into the CC-Link system, it is possible to do network maintenance from sites away from PLC master station.

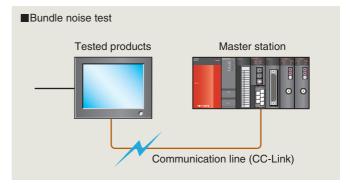


Network configuration with high noise resistance

► CC-Link family compatible products are highly noise resistant guaranteed by conformance testing.

A conformance test is conducted for all products sold by CLPA partners, the test includes a power supply noise test and a bundle noise test.







Troubleshooting

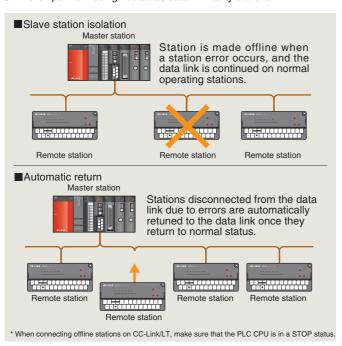
Prevent system shutdown

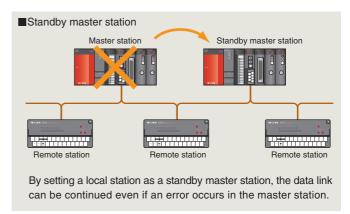
► CC-Link provides enhanced RAS functions.

CC-link realizes minimal system shutdowns by "error invalid station setting," "slave station isolation," "automatic return," "standby master station," and "2-piece terminal block".

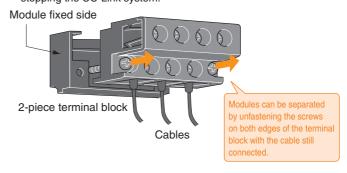
<Error invalid station setting>

In the online mode, this setting temporarily prevents modules specified on GX Developer from being treated as data link faulty stations.





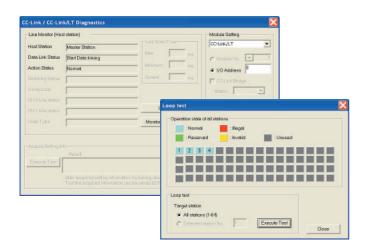
■The "2-piece terminal block" allows modules to be replaced without stopping the CC-Link system.



Easy troubleshooting

▶ CC-Link family Networks can be easily checked by GX Developer or GX Works2.

The status of the CC-Link and CC-Link/LT networks can be monitored by GX Developer or GX Works2.





"CC-Link is superior to existing networks" Realize the advantages of CC-Link.



Mr. A from the engineering section

"The current network distance of our factory is limited to 100m, and the transmission speed is unstable."

Mr. A's factory is expanded. His first challenge is total cable distance and communication stability. What interested him is that the network distance covered by the CC-Link network can be increased up to 900m at 625kbps, and transmission time is stable as well.

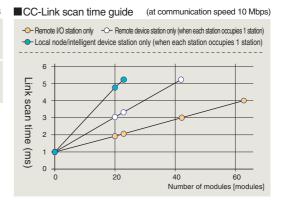
Feature 1 CC-Link is high-speed network and total cable distance is long distance.

Feature 2 CC-Link is a consistent network.

Transmission speeds and overall Network distance of other companies' networks

Other network At 500 kbps

CC-Link 900 m
At 625 kbps



"Our factory's networks are complex because they use various protocols. How about CC-Link?"

CC-Link eliminates the need to use different protocols.

Feature 3 CC-Link has a single protocol.

"It takes too long to reconnect network stations."

Regarding this issue, Mr. A learned that CC-Link compatible products quickly return to the network, and began to feel more attraction to CC-Link.

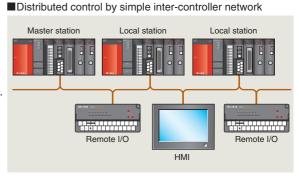
Feature 4 CC-Link offers quick return to the network system.

Protocol comparison CC-Link Other networks Protocol A Protocol B Representation of the protocol B Protocol C Protocol C Protocol C Protocol D

"We also need distributed controls."

Also, using CC-Link, he easily realized "distributed control by establishing communication between controllers".

Feature 5 CC-Link is simple control level network.



"That's why we



Mr. B from the production section

"Trunk cables and branch cables in the current network are different. Furthermore, trunk cables are expensive."

Mr. B is in charge of production engineering. He has been worried about utilization and high cost of the existing network. Therefore, he collected CC-Link information and compared it with other networks.

Feature 1 CC-Link is flexible to install.

Feature 2 CC-Link is reasonably priced.

■Cable comparison

| Item | CC-Link | Other network | | | |
|----------------------------------|---------------------------|--------------------------|---|--|--|
| Cable diameter | 7 mm | Thick cable: 12 mm | Thin cable: 7 mm | | |
| Trunk/ Branch | Trunk and branch | Trunk | Branch | | |
| Total cable length (no repeater) | Max. 1200 m (156 kbps) | Max. 500 m (125 kbps) | Max. 100 m (125 kbps) (250 kbps) (500 kbps) | | |

"It is stressful to design the necessary power supply capacity of a network."

He used to be bothered by complicated calculations for the required power capacity. He soon learned that such bothersome calculation was not necessary.

Feature 3 The calculation of the power supply capacity is not required for CC-Link.



Mr. C from the maintenance section

"Conformance testing is not mandatory for the current factory network."

Reliability is the most important for him. What interested him is that CC-Link products are guaranteed by the conformance test of the high noise resistance.

Feature 1 CC-Link is reliable because the conformance test is mandatory.

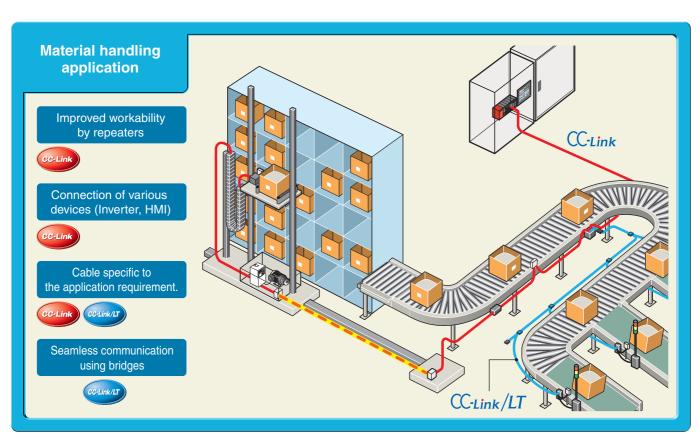


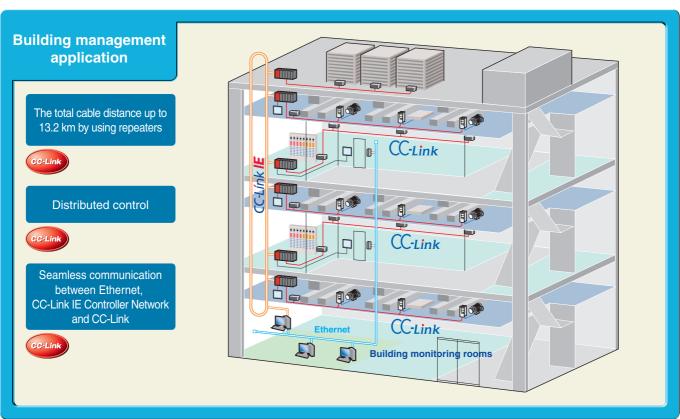


chose CC-Link!"

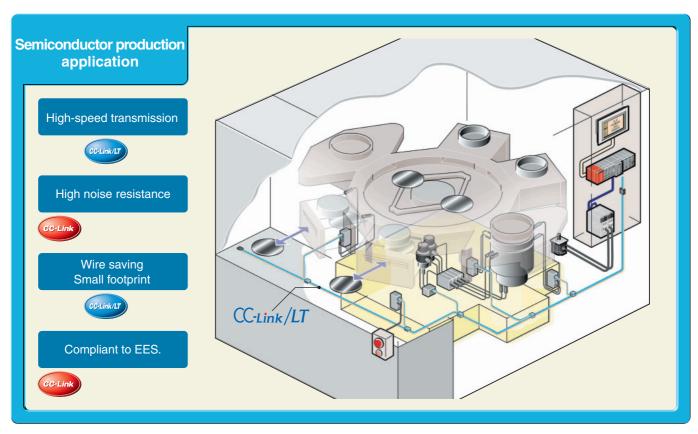


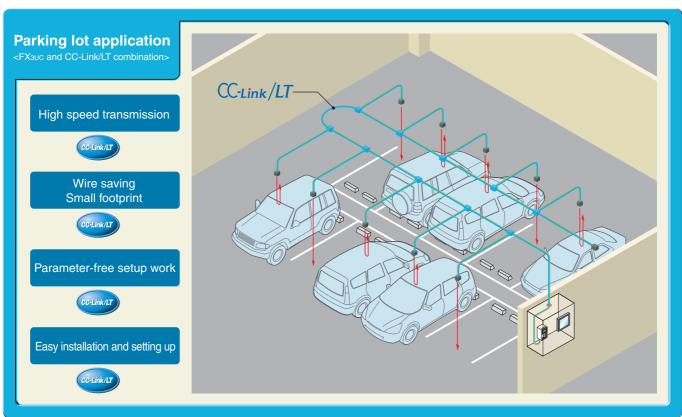
Networks is a key factor in various business applications.





The CC-Link family is the best solution.







Master/local modules, bridge modules

MELSEC-Q Series

QJ61BT11N

CC-Link V2



Occupied I/O points: 32 points
Occupied stations (at local station):
1 to 4*1 (can be set arbitrarily)

MELSEC-L Series CPU (with master/local station function)

L26CPU-BT(Sink type output) L26CPU-PBT(Source type output)

CC-Link V2



Occupied I/O points: 32 points
Occupied stations (at local station):
1 to 4*2 (can be set arbitrarily)

(CPU part)

I/O points: 4096 points
I/O device points: 8192 points
Program size: 260k steps

MELSEC-L Series

LJ61BT11





Occupied I/O points: 32 points

Occupied stations (at local station):

1 to 4*2 (can be set arbitrarily)

MELSEC-FX Series

FX_{2N}-16CCL-M



Occupied I/O points: 8 points Can be used only as a master station

MELSEC-QnAS Series

A1SJ61QBT11



Occupied I/O points: 32 points
Occupied stations (at local station):
1 to 4*2 (can be set arbitrarily)

MELSEC-Ans Series

A1SJ61BT11



Occupied I/O points: 32 points

Occupied stations (at local station):

1 to 4*2 (can be set arbitrarily)

^{*1} The number of occupied stations at a local station is set by a parameter in GX Developer or GX Works2.
*2 The number of occupied stations at a local station is set by the "condition setting switch" on the front face of the modules.

CC-Link IE Field Network - CC-Link Bridge module

NZ2GF-CCB



CC-Link IE Field Network intelligent device station with CC-Link master station function*1

*1 Compatible with CC-Link Ver.1.10 Remote I/O and remote device stations.

CC-Link-AnyWire Bitty Bridge module

NZ2AW1C1BY



Remote device station

Occupied stations: 1 to 4

with AnyWire Bitty master station function

CC-Link-AnyWire DB A20 Bridge module

NZ2AW1C2D2





Remote device station (for CC-Link Ver.2)

Occupied stations: 4

with AnyWire DB A20 master station function

CC-Link-AnyWireASLINK Bridge module

NZ2AW1C2AL





Occupied stations: 1 to 4

with AnyWireASLINK master station function

Remote I/O modules

► Terminal block type

Screw terminal block type

AJ65SBTB __-



Features

- From the lineup including a variety of products, you can select the most suitable type to match the connection method and I/O specifications of external devices.
- The protector covering the terminal block prevents the user from touching charged parts, allowing direct installation to a target machine.

Input modules

| Model | | Input format | Number of input points | Input response time | Rated input voltage/current | External connection |
|----------------|----|--------------------------|------------------------|--|-----------------------------|---------------------|
| AJ65SBTB2N-8A | AC | - | 8 | 20ms or less | 100VAC/7mA | 2-wire type |
| AJ65SBTB2N-16A | AC | - | 16 | 20ms or less | 100VAC/7mA | 2-wire type |
| AJ65SBTB1-8D | DC | Positive/Negative common | 8 | 1.5ms or less | 24VDC/7mA | 1-wire type |
| AJ65SBTB3-8D | DC | Positive/Negative common | 8 | 1.5ms or less | 24VDC/7mA | 3-wire type |
| AJ65SBTB1-16D | DC | Positive/Negative common | 16 | 1.5ms or less | 24VDC/7mA | 1-wire type |
| AJ65SBTB1-16D1 | DC | Positive/Negative common | 16 | 0.2ms or less | 24VDC/5mA | 1-wire type |
| AJ65SBTB3-16D | DC | Positive/Negative common | 16 | 1.5ms or less | 24VDC/7mA | 3-wire type |
| AJ65SBTB3-16D5 | DC | Positive/Negative common | 16 | 1.5ms or less | 5VDC/4mA | 3-wire type |
| AJ65SBTB3-16KD | DC | Positive/Negative common | 16 | 0.2ms or less,1.5ms or less,5ms or less,10ms or less | 24VDC/7mA | 3-wire type |
| AJ65SBTB1-32D | DC | Positive/Negative common | 32 | 1.5ms or less | 24VDC/7mA | 1-wire type |
| AJ65SBTB1-32D1 | DC | Positive/Negative common | 32 | 0.2ms or less | 24VDC/5mA | 1-wire type |
| AJ65SBTB1-32D5 | DC | Positive/Negative common | 32 | 1.5ms or less | 5VDC/4mA | 1-wire type |
| AJ65SBTB1-32KD | DC | Positive/Negative common | 32 | 0.2ms or less,1.5ms or less,5ms or less,10ms or less | 24VDC/7mA | 1-wire type |

Output modules

| Model | Output | t format | Number of output points | Leakage current at OFF | Output protection function | Rated load voltage/current | External connection |
|------------------|------------|-------------|-------------------------|---|----------------------------|----------------------------|---------------------|
| AJ65SBTB1-8T | Transistor | Sink type | 8 | 0.25mA or less | Yes | 12/24VDC 0.5A | 1-wire type |
| AJ65SBTB1-8T1 | Transistor | Sink type | 8 | 0.1 mA or less | No | 12/24VDC 0.5A | 1-wire type |
| AJ65SBTB2-8T | Transistor | Sink type | 8 | 0.25mA or less | Yes | 12/24VDC 0.5A | 2-wire type |
| AJ65SBTB2-8T1 | Transistor | Sink type | 8 | 0.1 mA or less | No | 12/24VDC 0.5A | 2-wire type |
| AJ65SBTB1-16T | Transistor | Sink type | 16 | 0.25mA or less | Yes | 12/24VDC 0.5A | 1-wire type |
| AJ65SBTB1-16T1 | Transistor | Sink type | 16 | 0.1 mA or less | No | 12/24VDC 0.5A | 1-wire type |
| AJ65SBTB2-16T | Transistor | Sink type | 16 | 0.25mA or less | Yes | 12/24VDC 0.5A | 2-wire type |
| AJ65SBTB2-16T1 | Transistor | Sink type | 16 | 0.1 mA or less | No | 12/24VDC 0.5A | 2-wire type |
| AJ65SBTB1-32T | Transistor | Sink type | 32 | 0.25mA or less | Yes | 12/24VDC 0.5A | 1-wire type |
| AJ65SBTB1-32T1 | Transistor | Sink type | 32 | 0.1 mA or less | No | 12/24VDC 0.5A | 1-wire type |
| AJ65SBTB1-8TE | Transistor | Source type | 8 | 0.1 mA or less | Yes | 12/24VDC 0.1A | 1-wire type |
| AJ65SBTB1-16TE | Transistor | Source type | 16 | 0.1 mA or less | Yes | 12/24VDC 0.1A | 1-wire type |
| AJ65SBTB1B-16TE1 | Transistor | Source type | 16 | 0.1 mA or less | No | 12/24VDC 0.5A | 1-wire type |
| AJ65SBTB1-32TE1 | Transistor | Source type | 32 | 0.1 mA or less | No | 12/24VDC 0.5A | 1-wire type |
| AJ65SBTB2N-8R | Relay | - | 8 | - | No | 24VDC, 240VAC 2A | 2-wire type |
| AJ65SBTB2N-16R | Relay | - | 16 | - | No | 24VDC, 240VAC 2A | 2-wire type |
| AJ65SBTB2N-8S | Triac | - | 8 | 1.5mA or less (100VAC)/3mA or less (200VAC) | No | 100 to 240VAC 0.6A | 2-wire type |
| AJ65SBTB2N-16S | Triac | - | 16 | 1.5mA or less (100VAC)/3mA or less (200VAC) | No | 100 to 240VAC 0.6A | 2-wire type |

| i/O combined mod | uics | 1 | | | | | | | | | | |
|-------------------|------------------|--------------------------|------------------------|--|------------|------------|-------------|-------------------------|------------------------------|----------------------------|-----------------|-------------------------|
| | del Input format | | Number of input points | | | | | Number of output points | Leakage current at OFF | Output protection function | | |
| AJ65SBTB32-8DT | DC | Positive common | 4 | 1.5ms or less | 24VDC/ 7mA | Transistor | Sink type | 4 | 0.25mA or less | Yes | 24VDC 0.5A | 3-wire type/2-wire type |
| AJ65SBTB32-8DT2 | DC | Positive common | 4 | 1.5ms or less | 24VDC/ 7mA | Transistor | Sink type | 4 | 0.1mA or less | No | 24VDC 0.5A | 3-wire type/2-wire type |
| AJ65SBTB1-16DT | DC | Positive common | 8 | 1.5ms or less | 24VDC/ 7mA | Transistor | Sink type | 8 | 0.25mA or less | Yes | 24VDC 0.5A | 1-wire type/1-wire type |
| AJ65SBTB1-16DT1 | DC | Positive common | 8 | 0.2ms or less | 24VDC/5mA | Transistor | Sink type | 8 | 0.25mA or less | Yes | 24VDC 0.5A | 1-wire type/1-wire type |
| AJ65SBTB1-16DT2 | DC | Positive common | 8 | 1.5ms or less | 24VDC/ 7mA | Transistor | Sink type | 8 | 0.1mA or less | No | 24VDC 0.5A | 1-wire type/1-wire type |
| AJ65SBTB1-16DT3 | DC | Positive common | 8 | 0.2ms or less | 24VDC/5mA | Transistor | Sink type | 8 | 0.1mA or less | No | 24VDC 0.5A | 1-wire type/1-wire type |
| AJ65SBTB32-16DT | DC | Positive common | 8 | 1.5ms or less | 24VDC/ 7mA | Transistor | Sink type | 8 | 0.25mA or less | Yes | 24VDC 0.5A | 3-wire type/2-wire type |
| AJ65SBTB32-16DT2 | DC | Positive common | 8 | 1.5ms or less | 24VDC/ 7mA | Transistor | Sink type | 8 | 0.1mA or less | No | 24VDC 0.5A | 3-wire type/2-wire type |
| AJ65SBTB32-16DR | DC | Positive/Negative common | 8 | 1.5ms or less | 24VDC/ 7mA | Relay | - | 8 | - | No | 24VDC/240VAC 2A | 3-wire type/2-wire type |
| AJ65SBTB32-16KDT2 | DC | Positive common | 8 | 0.2ms or less,1.5ms or less,5ms or less,10ms or less | 24VDC/ 7mA | Transistor | Sink type | 8 | 0.1mA or less | No | 24VDC 0.5A | 3-wire type/2-wire type |
| AJ65SBTB32-16KDT8 | DC | Positive common | 8 | 0.2ms or less,1.5ms or less,5ms or less,10ms or less | 12VDC/11mA | Transistor | Sink type | 8 | 0.1mA or less | No | 12VDC 0.5A | 3-wire type/2-wire type |
| AJ65SBTB32-16KDR | DC | Positive/Negative common | 8 | 0.2ms or less,1.5ms or less,5ms or less,10ms or less | 24VDC/ 7mA | Relay | - | 8 | - | No | 24VDC/240VAC 2A | 3-wire type/2-wire type |
| AJ65SBTB1-32DT | DC | Positive common | 16 | 1.5ms or less | 24VDC/ 7mA | Transistor | Sink type | 16 | 0.25mA or less | Yes | 24VDC 0.5A | 1-wire type/1-wire type |
| AJ65SBTB1-32DT1 | DC | Positive common | 16 | 0.2ms or less | 24VDC/5mA | Transistor | Sink type | 16 | 0.25mA or less | Yes | 24VDC 0.5A | 1-wire type/1-wire type |
| AJ65SBTB1-32DT2 | DC | Positive common | 16 | 1.5ms or less | 24VDC/ 7mA | Transistor | Sink type | 16 | 0.1mA or less | No | 24VDC 0.5A | 1-wire type/1-wire type |
| AJ65SBTB1-32DT3 | DC | Positive common | 16 | 0.2ms or less | 24VDC/5mA | Transistor | Sink type | 16 | 0.1mA or less | No | 24VDC 0.5A | 1-wire type/1-wire type |
| AJ65SBTB1-32DTE1 | DC | Positive/Negative common | 16 | 1.5ms or less | 24VDC/ 7mA | Transistor | Source type | 16 | 0.1mA or less | No | 24VDC 0.5A | 1-wire type/1-wire type |
| AJ65SBTB1-32KDT2 | DC | Positive common | 16 | 0.2ms or less,1.5ms or less,5ms or less,10ms or less | 24VDC/ 7mA | Transistor | Sink type | 16 | 0.1mA or less | No | 24VDC 0.5A | 1-wire type/1-wire type |
| AJ65SBTB1-32KDT8 | DC | Positive common | 16 | 0.2ms or less 1.5ms or less 5ms or less 10ms or less | 12VDC/11mA | Transistor | Sink type | 16 | 0.1mA or less | No | 12VDC 0.5A | 1-wire type/1-wire type |

Screw/2-piece terminal block type





Features

- ○The I/O terminal block is removable.
- The 2-piece structure allows easy servicing as the module can be replaced without rewiring.



Input modules

| Model | Input format | | Number of input points | Input response time | Rated input voltage/current | External connection |
|--------------|--------------|--------------------------|------------------------|---------------------|-----------------------------|---------------------|
| AJ65BTB1-16D | DC | Positive/Negative common | 16 | 10ms or less | 24VDC/7mA | 1-wire type |
| AJ65BTB2-16D | DC | Positive/Negative common | 16 | 10ms or less | 24VDC/7mA | 2-wire type |

Output modules

| Model | Output format | | Number of output points | Leakage current at OFF | Output protection function | Rated load voltage/current | External connection |
|--------------|---------------|-----------|-------------------------|------------------------|----------------------------|----------------------------|---------------------|
| AJ65BTB1-16T | Transistor | Sink type | 16 | 0.1mA or less | No | 12/24VDC 0.5A | 1-wire type |
| AJ65BTB2-16T | Transistor | Sink type | 16 | 0.1mA or less | No | 12/24VDC 0.5A | 2-wire type |
| AJ65BTB2-16R | Relay - | | 16 | - | No | 24VDC/240VAC 2A | 2-wire type |

I/O combined modules

| Model | | Input format | | Input response time | Rated input voltage/current | Output | format | Number of output points | Leakage current at OFF | Output protection function | Rated load voltage/current | External connection |
|---------------|----|------------------|---|---------------------|-----------------------------|------------|-----------|-------------------------|---------------------------|----------------------------|-------------------------------|-------------------------|
| AJ65BTB1-16DT | DC | Positive common | 8 | 10ms or less | 24VDC/7mA | Transistor | Sink type | 8 | 0.1mA or less | No | 12/24VDC 0.5A | 1-wire type/1-wire type |
| AJ65BTB2-16DT | DC | Positive common | 8 | 10ms or less | 24VDC/7mA | Transistor | Sink type | 8 | 0.1mA or less | No | 12/24VDC 0.5A | 2-wire type/2-wire type |
| AJ65BTB2-16DR | DC | Positive common/ | 8 | 10ms or less | 24VDC/7mA | Relay | - | 8 | - | No | 24VDC/ 240VAC 2A | 2-wire type/2-wire type |

A2C form terminal block type

AJ65DBTB -32



Features

- \bigcirc The modules are mountable with the same position of A2C form I/O modules.

New installation holes are unnecessary.

Input modules

| Model | | Input format | Number of input points | Input response time | Rated input voltage/current | External connection |
|---------------|----|--------------------------|------------------------|---------------------|-----------------------------|---------------------|
| AJ65DBTB1-32D | DC | Positive/Negative common | 32 | 10ms or less | 24VDC/5mA | 1-wire type |

Output modules

| Model | Outpu | ıt format | Number of output points | Leakage current at OFF | Output protection function | Rated load voltage/current | External connection | |
|----------------|------------|-----------|-------------------------|------------------------|----------------------------|----------------------------|---------------------|--|
| AJ65DBTB1-32T1 | Transistor | Sink type | 32 | 0.1mA or less | No | 12/24VDC 0.5A | 1-wire type | |
| AJ65DBTB1-32R | Relav | | 32 | - | No | 24VDC/240VAC 2A | 1-wire type | |

| Model | | Input format | Number of input points | Input response time | | Output | format | Number of output points | Leakage current at OFF | Output protection function | Rated load voltage/current | External connection |
|-----------------|----|--------------------------|------------------------|---------------------|-----------|------------|-----------|-------------------------|---------------------------|----------------------------|-------------------------------|-------------------------|
| AJ65DBTB1-32DT1 | DC | Positive common | 16 | 10ms or less | 24VDC/5mA | Transistor | Sink type | 16 | 0.1mA or less | No | 12/24VDC 0.5A | 1-wire type/1-wire type |
| AJ65DBTB1-32DR | DC | Positive/Negative common | 16 | 10ms or less | 24VDC/5mA | Relay | - | 16 | - | No | 24VDC /240VAC 2A | 1-wire type/1-wire type |

Spring clamp teminal block push-in type

AJ65ABTP3-16D AJ65ABTP3-16DE



Features

- Wiring time can be reduced using push-in type terminal blocks.
- OWire disconnections or short-circuits can be checked.
- Wiring errors from external power supply can be checked.
- The 2-piece structure allows easy servicing as the module can be replaced without rewiring.

Input modules with diagnostic functions

| Model | Input format | | Number of input points | | Rated input voltage/current | |
|----------------|--------------|-----------------|------------------------|---------------|-----------------------------|-------------|
| AJ65ABTP3-16D | DC | Positive common | 16 | 1.5ms or less | 24VDC/6mA | 3-wire type |
| AJ65ABTP3-16DE | DC | Negative common | 16 | 1.5ms or less | 24VDC/6mA | 3-wire type |

Spring clamp terminal block type





Features

- Wiring time can be reduced because no screw tightening and retightening are required.
- The 2-piece structure allows easy servicing as the module can be replaced without rewiring.
- ODIN rail or screw mounting is selectable.
- The 3-wire sensor can be connected.



Input modules

| Model | Input format | | Number of input points | | Rated input voltage/current | External connection |
|---------------|--------------|-----------------|------------------------|---------------|-----------------------------|---------------------|
| AJ65VBTS3-16D | DC | Positive common | 16 | 1.5ms or less | 24VDC/5mA | 3-wire type |
| AJ65VBTS3-32D | DC | Positive common | 32 | 1.5ms or less | 24VDC/5mA | 3-wire type |

Output modules

| Model | Output format | | Number of output points | Leakage current at OFF | Output protection function | Rated load voltage/current | External connection |
|---------------|---------------|-----------|-------------------------|------------------------|----------------------------|----------------------------|---------------------|
| AJ65VBTS2-16T | Transistor | Sink type | 16 | 0.1mA or less | No | 12/24VDC 0.5A | 2-wire type |
| AJ65VBTS2-32T | Transistor | Sink type | 32 | 0.1mA or less | No | 12/24VDC 0.5A | 2-wire type |

| Model | | Input format | Number of input points | Input response time | Rated input voltage/current | Output | format | Number of output points | Leakage current at OFF | Output protection function | Rated load voltage/current | External connection |
|-----------------|----|-----------------|------------------------|---------------------|-----------------------------|------------|-----------|-------------------------|---------------------------|----------------------------|----------------------------|-------------------------|
| AJ65VBTS32-16DT | DC | Positive common | 8 | 1.5ms or less | 24VDC/5mA | Transistor | Sink type | 8 | 0.1mA or less | No | 24VDC 0.5A | 3-wire type/2-wire type |
| AJ65VBTS32-32DT | DC | Positive common | 16 | 1.5ms or less | 24VDC/5mA | Transistor | Sink type | 16 | 0.1mA or less | No | 12/24VDC 0.5A | 3-wire type/2-wire type |

^{*} These modules are used as remote device stations.

▶ Sensor connector type

e-CON type

AJ65VBTCE __-



Features

- ○Industry-standard e-CON has been adopted.
- © Easy wiring with sensor connectors
- ODIN rail or screw mounting is selectable.
- OThe 3-wire sensor can be connected.

Input modules

| Model | Input format | | Number of input points | Input response time | Rated input voltage/current | External connection |
|-----------------|--------------|-----------------|------------------------|---------------------|-----------------------------|---------------------|
| AJ65VBTCE3-8D | DC | Positive common | 8 | 1.5ms or less | 24VDC/5mA | 3-wire type |
| AJ65VBTCE3-16D | DC | Positive common | 16 | 1.5ms or less | 24VDC/5mA | 3-wire type |
| AJ65VBTCE3-32D | DC | Positive common | 32 | 1.5ms or less | 24VDC/5mA | 3-wire type |
| AJ65VBTCE3-16DE | DC | Negative common | 16 | 1.5ms or less | 24VDC/5mA | 3-wire type |
| AJ65VBTCE3-32DE | DC | Negative common | 32 | 1.5ms or less | 24VDC/5mA | 3-wire type |

Output modules

| • | | | | | | | |
|-----------------|---------------|-------------|-------------------------|------------------------|----------------------------|----------------------------|-------------|
| Model | Output format | | Number of output points | Leakage current at OFF | Output protection function | Rated load voltage/current | |
| AJ65VBTCE2-8T | Transistor | Sink type | 8 | 0.1mA or less | Yes | 12/24VDC 0.1A | 2-wire type |
| AJ65VBTCE2-16T | Transistor | Sink type | 16 | 0.1mA or less | Yes | 12/24VDC 0.1A | 2-wire type |
| AJ65VBTCE3-16TE | Transistor | Source type | 16 | 0.1mA or less | Yes | 12/24VDC 0.1A | 3-wire type |

I/O combined modules

| Model | | Input format | Number of input points | Input response time | Rated input voltage/current | Output | format | Number of output points | Leakage current at OFF | Output protection function | Rated load voltage/current | External connection |
|------------------|----|-----------------|------------------------|---------------------|-----------------------------|------------|-------------|-------------------------|---------------------------|----------------------------|----------------------------|-------------------------|
| AJ65VBTCE32-16DT | DC | Positive common | 8 | 1.5ms or less | 24VDC/5mA | Transistor | Sink type | 8 | 0.1mA or less | Yes | 24VDC 0.1A | 3-wire type/2-wire type |
| AJ65VBTCE3-16DTE | DC | Negative common | 8 | 1.5ms or less | 24VDC/5mA | Transistor | Source type | 8 | 0.1mA or less | Yes | 24VDC 0.1A | 3-wire type/3-wire type |
| AJ65VBTCE32-32DT | DC | Positive common | 16 | 1.5ms or less | 24VDC/5mA | Transistor | Sink type | 16 | 0.1mA or less | Yes | 24VDC 0.1A | 3-wire type/2-wire type |
| AJ65VBTCE3-32DTE | DC | Negative common | 16 | 1.5ms or less | 24VDC/5mA | Transistor | Source type | 16 | 0.1mA or less | Yes | 24VDC 0.1A | 3-wire type/3-wire type |

One-touch connector type









Features

- ©Easy wiring with sensor connectors
- The modules are mountable in six orientations.

Input modules

| Model | | Input format | Number of input points | Input response time | Rated input voltage/current | External connection |
|-----------------|----|--------------------------|------------------------|---------------------|-----------------------------|---------------------|
| AJ65VBTCU3-8D1 | DC | Positive common | 8 | 0.2ms or less | 24VDC/5mA | 3-wire type |
| AJ65VBTCU3-16D1 | DC | Positive common | 16 | 0.2ms or less | 24VDC/5mA | 3-wire type |
| AJ65SBTC4-16DN | DC | Positive common | 16 | 1.5ms or less | 24VDC/5mA | 4-wire type |
| AJ65SBTC4-16DE | DC | Negative common | 16 | 1.5ms or less | 24VDC/5mA | 4-wire type |
| AJ65SBTC1-32D | DC | Positive/Negative common | 32 | 1.5ms or less | 24VDC/5mA | 1-wire type |
| AJ65SBTC1-32D1 | DC | Positive/Negative common | 32 | 0.2ms or less | 24VDC/5mA | 1-wire type |

Output modules

| Model | Output format | | Number of output points | Leakage current at OFF | Output protection function | Rated load voltage/current | External connection |
|----------------|---------------|-----------|-------------------------|------------------------|----------------------------|----------------------------|---------------------|
| AJ65VBTCU2-8T | Transistor | Sink type | 8 | 0.1 mA or less | Yes | 12/24VDC 0.1A | 2-wire type |
| AJ65VBTCU2-16T | Transistor | Sink type | 16 | 0.1 mA or less | Yes | 12/24VDC 0.1A | 2-wire type |
| AJ65SBTC1-32T | Transistor | Sink type | 32 | 0.25mA or less | Yes | 12/24VDC 0.1A | 1-wire type |
| AJ65SBTC1-32T1 | Transistor | Sink type | 32 | 0.1 mA or less | No | 12/24VDC 0.1A | 1-wire type |

| Model | | | Number of input points | Input response time | Rated input voltage/current | Output | format | Number of output points | Leakage current at OFF | Output protection function | Rated load voltage/current | External connection |
|-----------------|----|-----------------|------------------------------|---------------------|-----------------------------|------------|-----------|-------------------------|---------------------------|----------------------------|----------------------------|-------------------------|
| AJ65SBTC4-16DT | DC | Positive common | 8 | 1.5ms or less | 24VDC/5mA | Transistor | Sink type | 8 | 0.25mA or less | Yes | 24VDC 0.5A | 4-wire type |
| AJ65SBTC4-16DT2 | DC | Positive common | 8 | 1.5ms or less | 24VDC/5mA | Transistor | Sink type | 8 | 0.1 mA or less | No | 24VDC 0.5A | 4-wire type |
| AJ65SBTC1-32DT | DC | Positive common | 16 | 1.5ms or less | 24VDC/5mA | Transistor | Sink type | 16 | 0.25mA or less | Yes | 24VDC 0.1A | 1-wire type/1-wire type |
| AJ65SBTC1-32DT1 | DC | Positive common | 16 | 0.2ms or less | 24VDC/5mA | Transistor | Sink type | 16 | 0.25mA or less | Yes | 24VDC 0.1A | 1-wire type/1-wire type |
| AJ65SBTC1-32DT2 | DC | Positive common | 16 | 1.5ms or less | 24VDC/5mA | Transistor | Sink type | 16 | 0.1 mA or less | No | 24VDC 0.1A | 1-wire type/1-wire type |
| AJ65SBTC1-32DT3 | DC | Positive common | 16 | 0.2ms or less | 24VDC/5mA | Transistor | Sink type | 16 | 0.1 mA or less | No | 24VDC 0.1A | 1-wire type/1-wire type |

40-pin connector type (FCN connector type)

Sink type

Positive common

AJ65SBTCF __- AJ65VBTCF __-





Features

The 40-pin connector (FCN connector type) allows connection of various devices.

12/24VDC 0.1A

24VDC 0.1A

1-wire type

/1-wire type

The modules are mountable in six orientations.

Input modules

| | Input format | | Number of input points | | Rated input voltage/current | |
|----------------|--------------|--------------------------|------------------------|---------------|-----------------------------|-------------|
| AJ65SBTCF1-32D | DC | Positive/Negative common | 32 | 1.5ms or less | 24VDC/5mA | 1-wire type |
| Output modules | | | | | | |

0.1mA or less

Model AJ65SBTCF1-32T

AJ65VBTCFJ1-32DT1

| I/O combined mod | lules | | | | | | | | | | | |
|------------------|-------|--------------------------|------------------------|---------------------|-----------|------------|-----------|-------------------------|---------------------------|----------------------------|----------------------------|-----------------------------|
| Model | | Input format | Number of input points | Input response time | | Output | | Number of output points | Leakage current at OFF | Output protection function | Rated load voltage/current | External connection |
| AJ65SBTCF1-32DT | DC | Positive/Negative common | 16 | 1.5ms or less | 24VDC/5mA | Transistor | Sink type | 16 | 0.1mA or less | Yes | 12/24VDC 0.1A | 1-wire type /1-wire type |
| AJ65VBTCF1-32DT1 | DC | Positive/Negative common | 16 | 0.2ms or less | 24VDC/5mA | Transistor | Sink type | 16 | 0.1mA or less | Yes | 12/24VDC 0.1A | 1-wire type /1-wire type |

Transistor

Waterproof connector type

DC

AJ65FBTA -16

24VDC/5mA



Features

Waterproof type modules are compliant with the IP67 standard for water resistance.

0.1mA or less

- Modules can be replaced without stopping the system.
- Easy connection without using any tool reduces wiring time.
- Built-in terminating resistor (selected by 110Ω/130Ω switch)
- The modules are mountable in six orientations.

Input modules

| Model | Input format | | Number of input points | | Rated input voltage/current | |
|----------------|--------------|-----------------|------------------------|---------------|-----------------------------|------------------|
| AJ65FBTA4-16D | DC | Positive common | 16 | 1.5ms or less | 24VDC/7mA | 2 to 4-wire type |
| AJ65FBTA4-16DE | DC | Negative common | 16 | 1.5ms or less | 24VDC/7mA | 2 to 4-wire type |

Output modules

| Model | Output format | | Number of output points | Leakage current at OFF | Output protection function | Rated load voltage/current | External connection |
|----------------|---------------|-------------|-------------------------|------------------------|----------------------------|----------------------------|---------------------|
| AJ65FBTA2-16T | Transistor | Sink type | 16 | 0.25mA or less | Yes | 12/24VDC 0.5A | 2-wire type |
| AJ65FBTA2-16TE | Transistor | Source type | 16 | 0.30mA or less | Yes | 12/24VDC 1.0A | 2-wire type |

| Model | | Input format | | Input response time | | Outpu | t format | | Leakage current at OFF | Output protection function | Rated load voltage /current | External connection |
|------------------|----|-----------------|---|---------------------|-----------|------------|-------------|---|---------------------------|----------------------------|--------------------------------|----------------------------------|
| AJ65FBTA42-16DT | DC | Positive common | 8 | 1.5ms or less | 24VDC/7mA | Transistor | Sink type | 8 | 0.25mA or less | Yes | 24VDC 0.5A | 2 to 4-wire type /2-wire type |
| AJ65FBTA42-16DTE | DC | Negative common | 8 | 1.5ms or less | 24VDC/7mA | Transistor | Source type | 8 | 0.30mA or less | Yes | 24VDC 1.0A | 2 to 4-wire type /2-wire type |

Safety relay modules

► Terminal block type

Spring clamp terminal block type





Features

- Reduced wiring with the CC-Link connection The special wiring to monitor the status of the safety relay module is not required.
 - The cables are nicely organized inside/outside of the control panel.
- Safety status visibility
 The cause of the safety system activation can be easily investigated since the status of safety outputs/inputs and internal relays are monitored.

| | | monitorea. | | | | |
|-----------------------------|-----------------|--|--|--|--|--|
| Item | | QS90SR2SP-CC | QS90SR2SN-CC | | | |
| Safety standard | | Category 4 of EN954- | 1, PL e of ISO13849-1 | | | |
| Number of safety | input points | 1 point (| 2 inputs) | | | |
| Number of start-u | up input points | 1 p | oint | | | |
| Input format | | P type (positive common/positive common) | N type (positive common/negative common) | | | |
| Number of safety | output points | 1 point (3 | 3 outputs) | | | |
| Rated load curren | nt | Category 4: 3.6A/point Category 3: 5.0A/point (250VAC/30VDC) | | | | |
| Response time | Output OFF | 20ms or less (safety input OFF → safety output OFF) | | | | |
| nesponse une | Output ON | 50ms or less (safety input ON → safety output ON) | | | | |
| Module power su | pply | 20.4 to 26.4VDC (ripple ratio: within 5%) | | | | |
| Safety power sup | pply | 20.4 to 26.4VDC (rip | pple ratio: within 5%) | | | |
| Number of extension modules | | Up to three extension safety relay modules can be connected. | | | | |
| External connection method | | Two-piece spring c | lamp terminal block | | | |
| Relay life | Mechanical | Five million to | imes or more | | | |
| nelay ille | Electrical | One hundred thous | sand times or more | | | |

Safety controller

Terminal block type

Spring clamp terminal block type

WS0-GCC100202



Features

- The safety controller CC-Link module enables communication between a CC-Link master station and the safety controller MELSEC-WS series. (It provides remote access to devices.)
- Communication settings are simple to make using the safety controller engineering software. In addition, communication data points can be given user labels that allow programs to be easily understood.
- The transmission speed auto-tracking function allows the module to match the speed of the master station without the need for any settings.
- OSpring clamp terminals help to minimize man hours spent wiring CC-Link cable.
- © Rewriting parameters is unnecessary when changing out modules.
- © Connect to the safety controller using the monitor tool to configure settings and check the error history.

| Item | WS0-GCC100202 |
|-----------------------------|---|
| Data transmission speed | 156kbps/625kbps/2.5Mbps/5Mbps/10Mbps(autosensing) |
| Station number | 1 to 64 |
| Number of occupied stations | 1 station (RX/RY 32 points each, RWw/RWr 4 points each)/ 2 stations (RX/RY 64 points each, RWw/RWr 8 points each)/ 3 stations (RX/RY 96 points each, RWw/RWr 12 points each)/ 4 stations (RX/RY 128 points each, RWw/RWr 16 points each) (The last 16 points of RX/RY are for system use (reserved).) |
| External connection method | 2-piece spring clamp terminal block |
| Power consumption | 1.4W |

Analog modules

Connector type

Analog input modules

One-touch connector type

CC-Link V2

AJ65VBTCU-68ADVN AJ65VBTCU-68ADIN



| Voltage | input | modu | le |
|---------|-------|------|----|
|---------|-------|------|----|

| Model | Number of channels | Number of occupied points | Station type |
|------------------|--------------------|---------------------------|---------------|
| AJ65VBTCU-68ADVN | 8 | 1/3*3 | Remote device |

Current input module

| • | | | |
|------------------|---|---------------------------|---------------|
| | | Number of occupied points | Station type |
| AJ65VBTCU-68ADIN | 8 | 1/3*3 | Remote device |

^{*3:} Three stations are occupied in Ver. 1 mode, or one station is occupied in Ver. 2 mode.

Analog output modules

One-touch connector type

CC-Link V2

AJ65VBTCU-68DAVN



Voltage output module

| | | Number of occupied points | Station type |
|------------------|---|---------------------------|---------------|
| AJ65VBTCU-68DAVN | 8 | 1/3 *3 | Remote device |

► Terminal block type

Analog input modules

Screw terminal block type

AJ65SBT-64AD AJ65SBT2B-64AD

(High accuracy, high resolution, high speed, 2-piece terminal block type)



Voltage/current input module

| Model | | Number of occupied points | |
|----------------|---|---------------------------|---------------|
| AJ65SBT-64AD | 4 | 1 | Remote device |
| AJ65SBT2B-64AD | 4 | 1 | Remote device |

Analog input modules

Screw/2-piece terminal block type

AJ65BT-64AD



Voltage/current input module

| Model | Number of channels | Number of occupied points | Station type |
|-------------|--------------------|---------------------------|---------------|
| AJ65BT-64AD | 4 | 2 | Remote device |

Analog output modules

Screw terminal block type

AJ65SBT-62DA AJ65SBT2B-64DA

(High resolution, high speed, 2-piece terminal block type)



Voltage/current output module

| Model | | Number of occupied points | Station type |
|----------------|---|---------------------------|---------------|
| AJ65SBT-62DA | 2 | 1 | Remote device |
| AJ65SBT2B-64DA | 4 | 1 | Remote device |

Analog output modules

Screw/2-piece terminal block type

AJ65BT-64DAV AJ65BT-64DAI



Voltage output module

| Model | Number of channels | Number of occupied points | Station type |
|-----------------------|--------------------|---------------------------|---------------|
| AJ65BT-64DAV | 4 | 2 | Remote device |
| Current output module | | | |
| | | Number of occupied points | |
| AJ65BT-64DAI | 4 | 2 | Remote device |

Temperature input modules

Screw/2-piece terminal block type

AJ65SBT2B-64RD3 AJ65SBT2B-64TD



RTD input module

| Model | | Number of occupied points | Station type |
|-----------------------------------|-------------------------------|---------------------------|---------------|
| AJ65SBT2B-64RD3 | 4 | 1 | Remote device |
| The sum of a second of the sum of | SBT2B-64RD3 4 1 Remote device | | |

Thermocouple temperature input module

| | Number of channels | | |
|----------------|--------------------|---|---------------|
| AJ65SBT2B-64TD | 4 | 1 | Remote device |

Temperature input modules

Screw/2-piece terminal block type

AJ65BT-68TD **AJ65BT-64RD3** AJ65BT-64RD4



Thermocouple temperature input module

| | | Number of occupied points | Station type |
|-------------|---|---------------------------|---------------|
| AJ65BT-68TD | 8 | 4 | Remote device |

Platinum resistance temperature sensor Pt 100 temperature input modules

| | | Number of occupied points | |
|--------------|---|---------------------------|---------------|
| AJ65BT-64RD3 | 4 | 4 | Remote device |
| AJ65BT-64RD4 | 4 | 4 | Remote device |

High-speed counter modules Positioning module

AJ65BT-D62 AJ65BT-D62D AJ65BT-D62D-S1



| Item | AJ65BT-D62 | AJ65BT-D62D | AJ65BT-D62D-S1 |
|-----------------------------|-----------------|--------------------|--------------------|
| Pulse input | DC input | Differential input | Differential input |
| Preset input | DC input | DC input | Differential input |
| Counting range | 0 to 16777215 | 0 to 16777215 | 0 to 16777215 |
| oodining lango | (24-bit binary) | (24-bit binary) | (24-bit binary) |
| Number of occupied stations | 4 | 4 | 4 |
| Station type | Remote device | Remote device | Remote device |
| | | | |



| | A JOSEPT DESERVO |
|-----------------------------|---|
| Item | AJ65BT-D75P2-S3 |
| Description | 2 axes (independent, linear and circular interpolation at the same time), 400 kbps, pulse count from -2147483648 to 2147483647 |
| Number of occupied stations | 4 |
| Station type | Intelligent device |

RS-232 interface module



| Item | AJ65BT-R2N |
|-----------------------------|--|
| Description | RS-232 1 channel, DC input 2 points/transistor output 2 points |
| Number of occupied stations | 1 |
| Station type | Intelligent device |

FX Series interface block



FX3U, FX3UC Series as CC-Link intelligent device stations

| Item | FX3U-64CCL |
|------------------------------------|--|
| Description | FX series interface block |
| Number of occupied stations | 1 to 4 |
| Station type | Intelligent device station |
| Applicable programmable controller | Mitsubishi micro-programmable controllers • FX3G, FX3U, FX3UC Series (FX2NC-CNV-IF or FX3UC-1PS-5V required) |

FX_{2N}-32CCL



Features

⊚ Interface block for connecting Mitsubishi micro-programmable controllers FXoN, FX1N, FX2N, FX1NC, FX2NC, FX3UC Series as CC-Link remote device stations

| Item | FX ₂ N-32CCL |
|------------------------------------|---|
| Description | FX series interface block |
| Number of occupied stations | 1 to 4 |
| Station type | Remote device station |
| Applicable programmable controller | Mitsubishi micro-programmable controllers • FX1N, FX2N, FX3uc • FX1NC, FX2NC, FX3uc Series (connector conversion module required) |

Interface board for personal computer

Q80BD-J61BT11N Q81BD-J61BT11



ECP-CL2BD



Mitsubishi Electric Engineering Corporation

Features

- ©Personal computers equipped with a PCI or PCI Express bus can be incorporated into the CC-Link system.
- ©Can be used as a CC-Link Ver. 2 compatible master station, standby master station or local station.
- ODrivers compatible with each of the following OS are included.

(Windows 7®(32bit), Windows Vista®, Windows® XP, Windows® 2000, Windows® NT ver 4.0)

| Item | Q80BD-J61BT11N | Q81BD-J61BT11 |
|-----------------------------|---|---|
| Description | PC PCI bus slot (half size) | PC PCI Express X1, X2, X4, X8, X16 slot (half size) |
| Number of occupied stations | 1 to 4 | 1 to 4 |
| Station type | Master station, standby master station or local station | Master station, standby master station or local station |

Features

- ©Control and monitor CC-Link devices using compact PCI bus interface (cPCI) compatible industrial computers.
- ©The CC-Link Industrial PC interface board can operate as a master or local station and is compatible with CC-Link version 2.
- ©Configure CC-Link parameters using the included software.
- ©Function libraries are available to help create user programs.

| | ECP-CL2BD |
|-----------------------------|---|
| Description | CC-Link V2 compatible Master/local interface board for FA computer (CompactPCI bus slot 3U size) |
| Number of occupied stations | 1 to 4 |
| Station type | Master station, standby master station or local station |

Repeater modules

Repeater module

AJ65FBTA-RPH AJ65SBT-RPS/RPG

AJ65BTS-RPH AJ65BT-RPI-10A/10B

AJ65SBT-RPT





AJ65SBT-RPT







AJ65FBTA-RPH

Features

- applications.
- $\ensuremath{\bigcirc}$ Thin, waterproof type repeater hub module: Star topology, trunk line extension, waterproof structure
- OSpring clamp terminal block type repeater hub module: Star topology, trunk line extension, spring clamp terminal block type
- © Repeater module (T-branch): T-branch, trunk line extension
- Optical repeater module: Wiring in high noise environment, trunk line extension
- OSpace optical repeater module: Communications on linear mobile systems

| Туре | Model | Description | Number of occupied points | Station type |
|--|----------------|---|---------------------------|---|
| Thin, waterproof type repeater hub module | AJ65FBTA-RPH | Start wiring of up to 8 branches. Wiring of max. length matched to transmission speed is possible for each branch. Waterproof (IP67) structure | - | - |
| Spring clamp terminal block type repeater hub module | AJ65BTS-RPH | Start wiring of up to 8 branches. Wiring of max. length matched to transmission speed is possible for each branch. Spring clamp terminal block type | - | - |
| Repeater module (T-branch) | AJ65SBT-RPT | Maximum number of connected levels: 10, T-branch wiring is possible. | - | - |
| Optical repeater modules | AJ65SBT-RPS | For SI/QSI-type optical fiber cables (Use two modules as a set). Maximum number of connected levels: 3, maximum transmission distance: 500m (SI)/1000m (QSI) | - | - |
| | AJ65SBT-RPG | For GI-type optical fiber cables (Use two modules as a set). Maximum number of connected levels: 2, maximum transmission distance: 2000m | - | - |
| Space optical repeater modules | AJ65BT-RPI-10A | Use AJ65BT-RPI-10A and AJ65BT-RPT-10B as a set. Transmission speeds of 156kbps, 625kbps and 2.5Mbps are supported. | -/1 | Remote I/O station when occupying one station |
| | AJ65BT-RPI-10B | Wireless transmission distances from 0 to 100 m via infrared light. Optical communication status monitor function | -/1 | Remote I/O station when occupying one station |

Optional parts for I/O modules

One-touch connector plug

A6CON-P214 A6CON-P220 (20pcs) A6CON-P514 (20pcs)



A6CON-P520
(20pcs)

Applicable models

AJ65SBTC□-□ remote I/O module AJ65VBTCU□-□ remote I/O module AJ65VBTCU-□ analog module

Online connector for communication

A6CON-LJ5P



@Applicable models *4

40-pin connector (FCN connector)

A6CON1
A6CON2
(1pc)
A6CON3
(1pc)
A6CON4



One-touch connector plug for communication

A6CON-L5P



Online connector for power supply

A6CON-PWJ5P



@Applicable models *5

Protective cap for unused connector

A6CAP-WP2



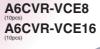
 One-touch connector plug for power supply and FG

A6CON-PW5P
A6CON-PW5P-SOD



@Applicable models *5

Protective cover for sensor connector type (e-CON) module



 One-touch connector plug with terminating resister

A6CON-TR11



@Applicable models *4

Protective cover

A6CVR-8 (10pcs) A6CVR-16 (10pcs) A6CVR-32



- *4: AJ65VBTS□-□ remote I/O module, AJ65VBTCE□-□ remote I/O module, AJ65VBTCU□-□ remote I/O module, AJ65ABTP□-□ remote I/O module, AJ65VBTCU-□ analog module, AJ65SBT-CLB CC-Link/LT bridge module
- *5: AJ65VBTCU -- remote I/O module, AJ65VBTCE -- remote I/O module, AJ65VBTCU -- remote I/O module, AJ65ABTP -- remote I/O module, AJ65VBTCU -- analog module



Master module

MELSEC-QS Series

QS0J61BT12



Internal current consumption: 0.46A

(5VDC, supplied from programmable controller)

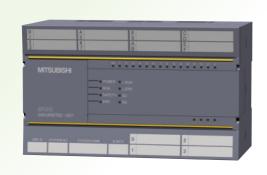
Weight : 0.12kg

Remote I/O modules

► Terminal block type

Screw terminal block type

QS0J65BTB2-12DT



Features

- The system complying with Category 3 or Category 4 of EN954-1 can be configured by the combination of wiring and parameters.
- The fail-safe function is equipped. When a failure occurs inside the module, the self-diagnostics function detects the failure and turns OFF the output.
- A dark test (contact stuck diagnostics) enables an error diagnostics including external safety devices.

I/O combined module

| | | Input format | | | Rated input Output format | | | Leakage current at OFF | Output protection function | | External connection |
|-----------------|----|-----------------|------|-------------|---------------------------|--|-----|---------------------------|----------------------------------|------------|-----------------------------|
| QS0J65BTB2-12DT | DC | Negative common | 8/16 | 24VDC/4.6mA | Transistor | Source + sink/ Source + source type | 4/2 | 0.5mA or less | Yes | 24VDC/0.5A | 2-wire type /2-wire type |

Spring clamp terminal block type

QS0J65BTS2-8D QS0J65BTS2-4T



Features

- The system complying with Category 3 or Category 4 of EN954-1 can be configured by the combination of wiring and parameters.

Input module

| Model | | | t format | Number of input points | | | External connection |
|---------------|--|----|-----------------|------------------------|----------------|-------------|---------------------|
| QS0J65BTS2-8D | | DC | Negative common | 8/16 | 11.2ms or less | 24VDC/5.9mA | 2-wire type |

Output module

| Model | | Output format | Number of Leakage current Ou | | Output protection | | External |
|---------------|------------|------------------------------------|------------------------------|---------------|-------------------|-----------------|-------------|
| Model | | Output format | output points | at OFF | function | voltage/current | connection |
| QS0J65BTS2-4T | Transistor | Source + sink/Source + source type | 4/2 | 0.5mA or less | Yes | 24VDC/0.5A | 2-wire type |



Master/bridge modules

MELSEC-Q Series

QJ61CL12



 $Current\ consumption:\ 130mA\ (5\mbox{VDC},\ supplied\ from\ programmable\ controller),$

28mA (24VDC, supplied from power adapter)

Current at start-up : 70mA (24VDC, supplied from power adapter)

Weight : 0.09kg

MELSEC-FX3uc Series

FX3UC-32MT-LT (-2)



Current consumption: 7W (main module only)

 $Built-in\ power\ supply\ : 24VDC\ \ 350mA\ (for\ CC-Link/LT\ network)$

Weight : 0.25kg

* CC_Link/LT parameters for FXsuc-32MT-LT-2 can be configured with GX Works2, GX Developer or display modules.

CC-Link to CC-Link/LT bridge module

AJ65SBT-CLB



 $\begin{tabular}{ll} Current consumption: & 75mA (24VDC, supplied from power adapter) \\ Current at start-up: & 165mA (24VDC, supplied from power adapter) \\ \end{tabular}$

Weight : 0.09kg

MELSEC-L Series

LJ61CL12



 $Current\ consumption:\ 160mA\ (5VDC,\ supplied\ from\ programmable\ controller),$

30mA (24VDC, supplied from power adapter)

Current at start-up : 70mA (24VDC, supplied from power adapter)

Weight : 0.12kg

MELSEC-FX Series

FX_{2N}-64CL-M



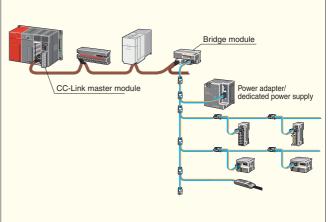
Current consumption: 190mA (5VDC, supplied from programmable controller),

25mA (2VDC, supplied from power adapter)

 $\begin{tabular}{ll} \textbf{Current at start-up} &: & 35mA \end{tabular} (24VDC, supplied from power adapter) \\ \end{tabular}$

Weight : 0.15kg

Configuration example of bridge module



Remote I/O modules

▶ Terminal block type

Screw terminal block type

CL1X4-D1B2 CL2X8-D1B2 CL1Y4-R1B1 CL2Y8-TP1B2 CL1XY8-DT1B2 CL1XY8-DR1B2 CL1Y4-T1B2 CL1Y4-R1B2 CL1XY4-DT1B2





Features

- ©The industry's most compact size
- Terminal block cover with nameplate showing connected devices
- OInput modules with positive/negative common shared
- ©Terminal block structure enabling simple connection of 2-wire sensors or other loads
- The modules are mountable in six orientations.

Input modules

| Model | | Input format | Number of input points | Input response time | Rated input voltage/current | External connection |
|------------|----|--------------------------|------------------------|---------------------|-----------------------------|---------------------|
| CL1X4-D1B2 | DC | Positive/Negative common | 4 | 0.5ms/1.5ms or less | 24VDC/4mA | 2-wire type |
| CL2X8-D1B2 | DC | Positive/Negative common | 8 | 0.5ms/1.5ms or less | 24VDC/4mA | 2-wire type |

Output modules

| Model | Output format | | Number of output points | Leakage current at OFF | Output protection function | Rated load voltage/current | External connection |
|-------------|---------------|-----------|-------------------------|------------------------|----------------------------|----------------------------|---------------------|
| CL1Y4-T1B2 | Transistor | Sink type | 4 | 0.1mA or less | No | 12/24VDC 0.1A | 2-wire type |
| CL2Y8-TP1B2 | Transistor | Sink type | 8 | 0.1mA or less | Yes | 12/24VDC 0.1A | 2-wire type |
| CL1Y4-R1B2 | Relay | - | 4 | - | No | 30VDC/250VAC 2A | 2-wire type |
| CL1Y4-R1B1 | Relay | - | 4 | - | No | 30VDC/250VAC 2A | 1-wire type |

I/O combined modules

| Model | Input format | | points time Voltage/current | | ut format Number of output points | | Leakage current at OFF | Output protection function | Rated load voltage /current | External connection | | |
|--------------|--------------|--------------------------|-----------------------------|-------|-----------------------------------|------------|---------------------------|----------------------------|--------------------------------|---------------------|-----------------|-----------------------------|
| CL1XY4-DT1B2 | DC | Positive/Negative common | 2 | 1.5ms | 24VDC/4mA | Transistor | Sink type | 2 | 0.1mA or less | No | 12/24VDC 0.1A | 2-wire type /2-wire type |
| CL1XY8-DT1B2 | DC | Positive/Negative common | 4 | 1.5ms | 24VDC/4mA | Transistor | Sink type | 4 | 0.1mA or less | No | 12/24VDC 0.1A | 2-wire type /2-wire type |
| CL1XY4-DR1B2 | DC | Positive/Negative common | 2 | 1.5ms | 24VDC/4mA | Relay | - | 2 | - | No | 30VDC/250VAC 2A | 2-wire type /2-wire type |
| CL1XY8-DR1B2 | DC | Positive/Negative common | 4 | 1.5ms | 24VDC/4mA | Relay | - | 4 | - | No | 30VDC/250VAC 2A | 2-wire type /2-wire type |

Spring clamp terminal block type

CL1X4-D1S2 CL1Y4-T1S2 CL2X8-D1S2 CL2Y8-TP1S2 CL2Y8-TPE1S2





Features

- © Retightening is not required. The applicable wire size is 0.3 to 1.5mm² (AWG22 to 16).
- ©Two-piece structure (The terminal block section is removable.)
- OInput modules with positive/negative common shared
- ©Source type output module (8 points) is available.
- The modules are mountable in six orientations.

Input modules

| Model | | Input format | Number of input points | Input response time | Rated input voltage/current | External connection |
|------------|----|--------------------------|------------------------|---------------------|-----------------------------|---------------------|
| CL1X4-D1S2 | DC | Positive/Negative common | 4 | 0.5ms/1.5ms | 24VDC/4mA | 2-wire type |
| CL2X8-D1S2 | DC | Positive/Negative common | 8 | 0.5ms/1.5ms | 24VDC/4mA | 2-wire type |

Output modules

| • | | | | | | | |
|--------------|------------|-------------|-------------------------|------------------------|----------------------------|----------------------------|---------------------|
| Model | Outpu | t format | Number of output points | Leakage current at OFF | Output protection function | Rated load voltage/current | External connection |
| CL1Y4-T1S2 | Transistor | Sink type | 4 | 0.1mA or less | No | 12/24VDC 0.1A | 2-wire type |
| CL2Y8-TP1S2 | Transistor | Sink type | 8 | 0.1mA or less | Yes | 12/24VDC 0.1A | 2-wire type |
| CL2Y8-TPE1S2 | Transistor | Source type | 8 | 0.1mA or less | Yes | 12/24VDC 0.1A | 2-wire type |

▶ Connector type

Sensor connector type (e-CON)

CL1X4-D1C3 CL1Y4-T1C2 CL2X8-D1C3V CL2Y8-TP1C2V CL2X16-D1C3V CL2Y16-TP1C2V CL2XY16-DTP1C5V







Features

- ©The industry's most compact size
- ODIN rail or screw mounting is selectable.
- OThe 3-wire sensor can be connected.

Input modules

| Model | Input format | | Input format Number of input points | | Rated input voltage/current | External connection |
|--------------|--------------|-----------------|-------------------------------------|---------------------|-----------------------------|---------------------|
| CL1X4-D1C3 | DC | Positive common | 4 | 0.5ms/1.5ms or less | 24VDC/4mA | 3-wire type |
| CL2X8-D1C3V | DC | Positive common | 8 | 0.5ms/1.5ms or less | 24VDC/4mA | 3-wire type |
| CL2X16-D1C3V | DC | Positive common | 16 | 0.5ms/1.5ms or less | 24VDC/4mA | 3-wire type |

Output modules

| Model | Output format | | Number of output points | Leakage current at OFF | Output protection function | Rated load voltage/current | External connection |
|---------------|---------------|-----------|-------------------------|------------------------|----------------------------|----------------------------|---------------------|
| CL1Y4-T1C2 | Transistor | Sink type | 4 | 0.1mA or less | No | 24VDC 0.1A | 2-wire type |
| CL2Y8-TP1C2V | Transistor | Sink type | 8 | 0.1mA or less | Yes | 24VDC 0.1A | 2-wire type |
| CL2Y16-TP1C2V | Transistor | Sink type | 16 | 0.1mA or less | Yes | 24VDC 0.1A | 2-wire type |

I/O combined modules

| Model | Inpu | ut format | Number of input points | Input response time | Rated input voltage/current | Output | format | Number of output points | Leakage current at OFF | Output protection function | Rated load voltage /current | External connection |
|-----------------|------|-----------------|------------------------|------------------------|-----------------------------|------------|-----------|-------------------------|---------------------------|----------------------------|--------------------------------|-----------------------------|
| CL2XY16-DTP1C5V | DC | Positive common | 8 | 0.5ms/1.5ms or less | 24VDC/4mA | Transistor | Sink type | 8 | 0.1mA or less | Yes | 24VDC 0.1A | 3-wire type/ 2-wire type |

MIL connector type

CL2X16-D1M1V CL2Y16-TP1M1V

CL2X16-D1MJ1V CL2Y16-TPE1M1V

CL2Y16-TP1MJ1V





Features

- ©The industry's most compact size
- MIL connector used for easy connection to relay terminals, terminal block conversion modules, solenoid valves, and others.
- ©Simple module replacement by only removing the connector

Input modules

| Model | Input format | | Number of input points | Input response time | Rated input voltage/current | External connection |
|---------------|--------------|-----------------|------------------------|---------------------|-----------------------------|---------------------|
| CL2X16-D1M1V | DC | Positive common | 16 | 0.5ms/1.5ms or less | 24VDC/4mA | 1-wire type |
| CL2X16-D1MJ1V | DC | Positive common | 16 | 0.5ms/1.5ms or less | 24VDC/4mA | 1-wire type |

Output modules

| Model | Output format | | Number of output points | Leakage current at OFF | Output protection function | Rated load voltage/current | External connection |
|----------------|---------------|-------------|-------------------------|------------------------|----------------------------|----------------------------|---------------------|
| CL2Y16-TP1M1V | Transistor | Sink type | 16 | 0.1mA or less | Yes | 12/24VDC 0.1A | 1-wire type |
| CL2Y16-TPE1M1V | Transistor | Source type | 16 | 0.1mA or less | Yes | 12/24VDC 0.1A | 1-wire type |
| CL2Y16-TP1MJ1V | Transistor | Sink type | 16 | 0.1mA or less | Yes | 24VDC 0.1A | 1-wire type |

► Cable type

Cable type

CL1X2-D1D3S CL1Y2-T1D2S CL1XY2-DT1D5S



Features

- OThe industry's most compact size
- The remote I/O module can be stored in a duct with cables.
- Integration of communication cables and external device connection cables for easy wiring
- ©Cables (50cm) provided to both communication and I/O sides

Input modules

| Model | In | put format | Number of input points | Input response time | Rated input voltage/current | External connection |
|-------------|----|-----------------|------------------------|---------------------|-----------------------------|---------------------|
| CL1X2-D1D3S | DC | Positive common | 2 | 0.5ms/1.5ms or less | 24VDC/4mA | 3-wire type |

Output modules

| Model | Output forn | | Number of output points | Leakage current at OFF | Output protection function | Rated load voltage/current | External connection |
|-------------|-------------|-----------|-------------------------|------------------------|----------------------------|----------------------------|---------------------|
| CL1Y2-T1D2S | Transistor | Sink type | 2 | 0.1mA or less | No | 24VDC 0.1A | 2-wire type |

I/O combined modules

| Model | | Input format | Number of input points | Input response time | Rated input voltage/current | (ЭШТОПП | format | Number of output points | Leakage current at OFF | Output protection function | Rated load voltage /current | External connection | |
|---------------|----|-----------------|------------------------|---------------------|-----------------------------|------------|-----------|-------------------------|---------------------------|----------------------------|--------------------------------|-----------------------------|--|
| CL1XY2-DT1D5S | DC | Positive common | 1 | 1.5ms or less | 24VDC/4mA | Transistor | Sink type | 1 | 0.1mA or less | No | 24VDC 0.1A | 3-wire type/ 2-wire type | |

Analog modules

► Terminal block type

Analog input module



Features

- ©Efficient usage of I/O points (number of occupied stations) is available because the points can be changed by the preset conversion-enabled channel.
 - (The number of occupied stations changes depending on the setting of the channel for which conversion is enabled.)
- The dedicated flat cable (50cm) is directly connected to a module.

Voltage/current input module

| Model | Number of channels | Number of occupied stations |
|----------|--------------------|-----------------------------------|
| CL2AD4-B | 4 | 16-point mode 4 stations occupied |

Analog output module



Features

- ©Efficient usage of I/O points (number of occupied stations) is available because the points can be changed by the preset conversion-enabled channel.
 - (The number of occupied stations changes depending on the setting of the channel for which conversion is enabled.)
- The dedicated flat cable (50cm) is directly connected to a module.

Voltage/current output module

| Model | Number of channels | Number of occupied stations |
|----------|--------------------|-----------------------------------|
| CL2DA2-B | 2 | 16-point mode 2 stations occupied |

Dedicated power supply

Dedicated power supply

CL1PSU-2A



Features

©Power supply dedicated to the CC-Link/LT system with built-in 2A power supply

| | Item | CL1PSU-2A |
|----------------------------|-------------------------|--|
| | Rated voltage | 100/120/200/230/240VAC |
| = | Allowable voltage range | 85 to 264VAC |
| Input | Rated frequency | 50/60Hz |
| _ | Power fuse | 3.15A |
| | Inrush current | Max. 60A/200VAC |
| | Output voltage | 24VDC +10%/-5% |
| Output | Output current | 0.01A to 2A derating according to ambient temperature and line voltage [Use so that the current consumption does not exceed 2A when power is supplied (excluding immediately after power ON).] |
| | Ripple noise | 500mVp-p or less |
| External connection method | | Module power supply: terminal block 3 pins (M3 screws) Power supply for supplying power to communication line/module: CC-Link/LT dedicated connector (4-pin) x 2 |
| We | ight (kg) | 0.40 |

Power supply adapter

Power supply adapter

CL1PAD1



Features

©Ensuring a stable power supply from the external power source (optional) to the CC-Link/LT system

| Item | CL1PAD1 |
|----------------------------|--|
| Voltage input range | Depending on connected model. Max. 28.8VDC |
| Max. rated current | 5.0A *5 |
| Isolation resistance | Across all external terminals and ground terminal 500VDC, 10MW by insulation resistance tester |
| External connection method | Module power supply: terminal block 3 pins (M3 screws) Power supply for supplying power to communication line/module: CC-Link/LT dedicated connector (4-pin) x 2 |
| Weight (kg) | 0.26 |

^{*5} In regular operation, use the adapter so that the max. rated current is not exceeded.

Optional parts

Connector for dedicated flat cable

CL9-CNF-18



Mitsubishi Electric System & Service Co.,Ltd.

Joint shield/Dust shield



Mitsubishi Electric System & Service Co.,Ltd.

Tool for spring clamp terminal block

KD-5339



Mitsubishi Electric System & Service Co.,Ltd.

Spring clamp terminal block Common terminal block

CL2TE-10S



Mitsubishi Electric Corporation

Connector for VCTF cable

CL9-CNR-23



Mitsubishi Electric System & Service Co.,Ltd.

Terminating resistor

CL9-TERM



Mitsubishi Electric System & Service Co.,Ltd.

IDC tool for communication connector

L-TOOL-N



Mitsubishi Electric System & Service Co.,Ltd.

Holder



Mitsubishi Electric Corporation

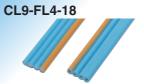
Connector for flexible cable

CL9-CNR-20



Mitsubishi Electric System & Service Co.,Ltd.

Dedicated flat cable



Mitsubishi Electric System & Service Co.,Ltd.

IDC tool for open sensor connector

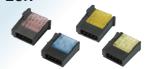
e-TOOL-N



Mitsubishi Electric System & Service Co.,Ltd.

Open sensor connector (e-CON)

ECN-*****



Mitsubishi Electric System & Service Co.,Ltd.

Dedicated flexible cable



Mitsubishi Electric System & Service Co.,Ltd.

Screw terminal block Common terminal block

CL2TE-5



Mitsubishi Electric Corporation

Embedded modules

Embedded I/O adapter

AJ65MBTL1N-16D AJ65MBTL1N-32T

AJ65MBTL1N-32D AJ65MBTL1N-16DT

AJ65MBTL1N-16T



Features

Mounting this product to your circuit board allows easy development of remote I/O stations.

Input modules

| Model | | nput format | Number of input points | Input response time | Rated input voltage/current |
|----------------|----|-----------------|------------------------|---------------------|-----------------------------|
| AJ65MBTL1N-16D | DC | Positive common | 16 | 1.5ms or less | 24VDC/4mA |
| AJ65MBTL1N-32D | DC | Positive common | 32 | 1.5ms or less | 24VDC/4mA |

Circuit board mounting example

Output modules

| Model | Output | format | Number of output points | Leakage current at OFF | Output protection function | Rated load voltage/current |
|----------------|------------|-----------|-------------------------|------------------------|----------------------------|----------------------------|
| AJ65MBTL1N-16T | Transistor | Sink type | 16 | 0.1mA or less | Yes | 12/24VDC 0.1A |
| AJ65MBTL1N-32T | Transistor | Sink type | 32 | 0.1mA or less | Yes | 12/24VDC 0.1A |

I/O combined module

| Model | | Input format | Number of input points | Input response time | Rated input voltage/current | Output | | Number of output points | | Output protection function | Rated load voltage/current | |
|-----------------|----|-----------------|------------------------|---------------------|-----------------------------|------------|-----------|-------------------------|---------------|----------------------------|----------------------------|--|
| AJ65MBTL1N-16DT | DC | Positive common | 8 | 1.5ms or less | 24VDC/7mA | Transistor | Sink type | 8 | 0.1mA or less | Yes | 24VDC 0.1A | |

CC-Link Ver.2 embedded interface board

Q50BD-CCV2 CC-Link V2



Features

©Sub-circuit board compatible with CC-Link Ver.2. Adding on this to a main circuit board enables development of master, local and intelligent device stations.

| Model | Description |
|------------|--|
| Q50BD-CCV2 | CC-Link Ver.2 embedded interface board |

Object development

MFP1N Device kit CC-Link V2



○The MFP1N device kit enables development of master, local and intelligent device stations.

| Model | MFI | Device kit | | | | | |
|---------------------|--|-------------------|---------------|--|--|--|--|
| Ordering model name | A6GA-CCMFP1NN60F | A6GA-CCMFP1NN300F | Q6KT-NPC2OG51 | | | | |
| Package unit | 60pcs | 300pcs | 40pcs | | | | |
| Application | Master station · local statio | Network circuit | | | | | |
| MFP·Mitsubis | MEP-Mitsubishi Field-network Processor | | | | | | |

Dedicated communication LSI

MFP2N MFP2AN MFP3N



©CC-Link compatible devices can be developed easily without worrying about the communication protocol.

| Model | MFP2AN | | MFP2AN MFP2N | | | P3N | | |
|----------------|--|----------------|-------------------|---------------|--------------|---------------|--|--|
| Ordering model | A6GA- | A6GA- | A6GA- | A6GA- | A6GA- | A6GA- | | |
| name | CCMFP2ANN 60F | CCMFP2ANN 300F | CCMFP2NN 60F | CCMFP2NN 300F | CCMFP3NN 60F | CCMFP3NN 300F | | |
| Package unit | 60pcs | 300pcs | 00pcs 60pcs 300pc | | 60pcs | 300pcs | | |
| Application | Remote I | O station | Remote I, | O station | Remote de | vice station | | |
| MFP:Mitsubi | MFP:Mitsubishi Field-network Processor | | | | | | | |

Dedicated communication LSI

CLC13 CLC21 CLC31



CC-Link/LT

©CC-Link/LT compatible devices can be developed easily without worrying about the communication protocol.

| Model | CLC13 | CLO | C21 | CLC31 |
|---------------------|----------------|------------|-----------------------|------------|
| Ordering model name | CL2GA13-60 | CL2GA21-60 | CL2GA21-300 | CL2GA31-60 |
| Package unit | 60pcs | 60pcs | 300pcs | 60pcs |
| Application | Master station | Remote I, | Remote device station | |
| CLC:CC-Link/ | T Controller | | | |

*For the development of CC-Link products that use MFP, "Open Field Network CC-Link, CC-Link/LT Compatible Product Development Guidebook (L(NA)-08052E-A)" is available. *For details or lead-free/RoHS compatible products, contact the Open System Center.

You are requested to become a member of the CC-Link Partner Association (CLPA) to purchase these embedded modules.



CC-Link (Ver.1.10) specifications

| | | | _ | | | | | | | |
|------------------------------|--|--|---|--|--|--|---|---|------------------------------------|------------------|
| | Iter | m | | | | Specifications | 3 | | | |
| SU | | | Remote I/O (RX,R) | Y) :2048 points ea | ıch | | | | | |
| Control specifications | Maximum number of | link points | Remote register (F | (Ww):256 points | | | | | | |
| oific | | | Remote register (F | Wr) :256 points | | | | | | |
| sbe | | | Remote I/O (RX,RY) :32 points each | | | | | | | |
| 2 | Number of link points | nor station | Remote register (RWw) :4 points | | | | | | | |
| Con | Number of link points | per station | Remote register (RWr): 4 points | | | | | | | |
| | | | | | | | | | | |
| | Transmission speed | | 10M/5M/2.5M/625 | √156kbps | | | | | | |
| | Communication meth | od | Broadcast polling r | nethod | | | | | | |
| | Synchronization meth | nod | Flag synchronous | method | | | | | | |
| | Encoding method | | NRZI method | | | | | | | |
| | Transmission path | | Bus type (conform | e to FIA RS-485) | | | | | | |
| | Transmission format | | , , | | | | | | | |
| | | | Conforms to HDLC | | | | | | | |
| | Error control system | | CRC (X ¹⁶ + X ¹² +) | (° + 1) | | | | | | |
| | | | 64 modules. Howe | ver, the following con | nditions must be | satisfied. | | | | |
| | | | $(1 \times a) + (2 \times b)$ | $+ (3 \times c) + (4 \times d) \le 64$ | i4 | | | | _ | |
| | | | | odules occupying 1 st | | r of modulos oc | ocupyina 2 | etatione | | |
| | | | | | | | | | | |
| | Number of connectab | nle modules | | odules occupying 3 st | | er of modules o | ccupying 4 | 4 stations | | |
| | Trained of connectae | no modulos | (16 x A) + (54 x | B) + $(88 \times C) \le 2304$ | | | | | | |
| | | | A: Number of re | mote I/O stations | | | | N | lax. 64 modules | |
| | | | B: Number of re | mote device stations | | | | N | flax. 42 modules | |
| | | | C: Number local | stations, standby ma | aster stations and | d intelligent dev | ice station | s N | Max 26 modules | |
| | | | | | | | | IV | | |
| Ø | Remote station numb | er | 1 to 64 | | | | | | | |
| tion | | | | | | | | | | |
| Communication specifications | | | | | | | | Local statio | n Loca | al station |
| | | | Master station | Remote I/O s | station Re | emote I/O statio | on | or | | or |
| | | | | remove device | station rem | or ove device stat | tion | intelligent | | elligent |
| ion | | | | Terriove device | rem | I | 11011 | device statio | on devic | e station |
| cat | | | | | | | | | | |
| ŭ | | | | | Cable length | | | | | |
| E | | | | - | between station | ons | | | | |
| රි | Maximum overall cab | le length | | | Maxim | num overall cab | le length | | | |
| | | • | | | | | | | | |
| | and cable length betw | veen stations | Ver.1.10 compatib | le CC-Link dedicated | l cable (terminati | ng resistor of 1 | 10Ω used) |) | | |
| | | | Transmission sp | eed Cable length b | between stations | Maximum ov | verall cable | e length W | Vhen Ver.1.10 mo | dules and |
| | | | 156kbps | | | | 1200m | | er.1.00 modules | |
| | | | | | | | | | | |
| | | | 625kbps | pps 20cm or longer 400m the station-to-station conform to the Ver1 | | | | | • | |
| | | | 2.5Mbps | | | | | | | |
| | | | 5Mbps | | | | | 1.00 | | |
| | | | 10Mbps | s 100m specifications. | | | | | | |
| | | | | | | | | | | |
| | | | CC-Link Ver.1.10 c | ompatible cable | | | | | | |
| | | | | | | | | | | |
| | | | | d cable certified by C | | | | | | |
| | | | | d cable certified by C operation will not be o | | | | | | |
| | Connection | | Please note that | • | guaranteed if the | other cable is | used. | 10. | | |
| | Connection cable | | Please note that Cables from diffe | operation will not be o | guaranteed if the can be used toge | other cable is ther if they sup | used. port Ver.1. | | er to the partner | |
| | Connection cable | | Please note that Cables from diffe For the specifica | operation will not be generation will not be generated the control of the control | guaranteed if the can be used toge dedicated cable of | e other cable is ther if they sup or the contact in | used. port Ver.1. nformation | on them, ref | | |
| | Connection cable | | Please note that Cables from diffe For the specifica product catalogs | operation will not be operation will not be operated the contract of the contr | guaranteed if the can be used toge dedicated cable of k Partner Associ | e other cable is ther if they sup or the contact in ation or visit its | used. port Ver.1. nformation web site a | on them, refeat http://www. | .cc-link.org. | Link dedicated |
| | Connection cable | | Please note that Cables from diffe For the specifica product catalogs The CC-Link dec | operation will not be go brent manufacturers ca tions of the CC-Link d published by CC-Link dicated cables, the hig | guaranteed if the can be used toge dedicated cable of k Partner Associ | e other cable is ther if they sup or the contact in ation or visit its | used. port Ver.1. nformation web site a | on them, refeat http://www. | .cc-link.org. | Link dedicated |
| | Connection cable | | Please note that Cables from diffe For the specifica product catalogs The CC-Link dec cables cannot be | operation will not be go brent manufacturers ca tions of the CC-Link d published by CC-Link dicated cables, the hig | guaranteed if the can be used toge dedicated cable of k Partner Associ | other cable is ther if they support the contact in ation or visit its CC-Link dedica | used. port Ver.1. nformation web site a | on them, refeat http://www. | .cc-link.org. | Link dedicated |
| | Connection cable | | Please note that Cables from diffe For the specifica product catalogs The CC-Link dec cables cannot be tic refresh function*1 | operation will not be go brent manufacturers ca tions of the CC-Link d published by CC-Link dicated cables, the hig | guaranteed if the can be used toge dedicated cable of k Partner Associ | e other cable is ther if they sup or the contact in ation or visit its | used. port Ver.1. nformation web site a | on them, refeat http://www. | .cc-link.org. | Link dedicated |
| | Connection cable | | Please note that Cables from diffe For the specifica product catalogs The CC-Link dec cables cannot be | operation will not be go brent manufacturers ca tions of the CC-Link d published by CC-Link dicated cables, the hig | guaranteed if the can be used toge dedicated cable of k Partner Associ | other cable is ther if they support the contact in ation or visit its CC-Link dedica | used. port Ver.1. nformation web site a ited cables | on them, refeat http://www.and Ver.1.10 | .cc-link.org. | Link dedicated |
| ction | | | Please note that Cables from diffe For the specifica product catalogs The CC-Link dec cables cannot be tic refresh function* AS functions | operation will not be gerent manufacturers continued to the CC-Link of published by CC-Link dicated cables, the high sused together. | guaranteed if the can be used toge dedicated cable of k Partner Associ gh-performance of | e other cable is ther if they support he contact in ation or visit its CC-Link dedica | used. port Ver.1. nformation web site a ted cables network me | on them, refeat http://www. and Ver.1.10 ode*1 ction | .cc-link.org. | Link dedicated |
| unction | | F by master function, Automat | Please note that Cables from diffe For the specifica product catalogs The CC-Link dec cables cannot be tic refresh function* AS functions c return function, Slav | operation will not be gerent manufacturers continued to the CC-Link of published by CC-Link dicated cables, the high sused together. | guaranteed if the can be used toge dedicated cable of k Partner Associ gh-performance of | e other cable is ther if they support the contact ir ation or visit its CC-Link dedica | used. port Ver.1. nformation web site a ted cables network me ronous fun C-Link star | on them, refeat http://www.eand Ver.1.10 ode*1 ction rtup*2 | .cc-link.org. | Link dedicated |
| Function | (Standi | by master function, Automat error detection by link s | Please note that Cables from diffe For the specifica product catalogs The CC-Link dec cables cannot be tic refresh function* AS functions c return function, Sla pecial relays/registers | operation will not be grent manufacturers citions of the CC-Link dipublished by CC-Link dicated cables, the high used together. we station cut-off functs, test/monitor) | guaranteed if the can be used toge dedicated cable of k Partner Associ gh-performance of ction, | e other cable is ther if they support the contact in ation or visit its CC-Link dedica Remote I/O I Scan synchi Automatic Co Reserved s | used. port Ver.1. nformation web site a ted cables network me ronous fun C-Link star | on them, refeat http://www.and Ver.1.10 ode*1 ction rtup*2 | .cc-link.org. | Link dedicated |
| Function | (Standl | by master function, Automat error detection by link s May not be supported deper | Please note that Cables from diffe For the specifica product catalogs The CC-Link dec cables cannot be tic refresh function* AS functions c return function, Sla pecial relays/registers ading on CPUs to be | operation will not be grent manufacturers citions of the CC-Link dipublished by CC-Link dicated cables, the high used together. we station cut-off functs, test/monitor) | guaranteed if the can be used toge dedicated cable of k Partner Associ gh-performance of ction, | e other cable is ther if they support the contact in ation or visit its CC-Link dedica Remote I/O i Scan synchi Automatic Co Reserved s | used. port Ver.1. nformation web site a sted cables network m ronous fun C-Link star station function setting | on them, refute that http://www.and Ver.1.10 ode*1 ction rtup*2 ction function | .cc-link.org. | Link dedicated |
| Function | (Standl *1 N *2 T | by master function, Automat error detection by link s May not be supported deper This function is available only | Please note that Cables from diffe For the specifica product catalogs The CC-Link dec cables cannot be tic refresh function* AS functions c return function, Slat pecial relays/registers dding on CPUs to be for the Q Series. | operation will not be grent manufacturers citions of the CC-Link dipublished by CC-Link dicated cables, the high sused together. we station cut-off functs, test/monitor) used together. | guaranteed if the can be used toge dedicated cable of k Partner Associ gh-performance of ction, | e other cable is ther if they support the contact in ation or visit its CC-Link dedica Remote I/O i Scan synchi Automatic Ci Reserved s Error invalid stat Support for d | used. port Ver.1. Information web site a tted cables network meronous fun C-Link star station func tion setting luplex func | on them, refute that http://www.and Ver.1.10 ode*1 ction rtup*2 ction g function ction*2 | .cc-link.org. 0-compatible CC- | Link dedicated |
| Function | (Standl *1 N *2 T | by master function, Automat error detection by link s May not be supported deper | Please note that Cables from diffe For the specifica product catalogs The CC-Link dec cables cannot be tic refresh function* AS functions c return function, Slat pecial relays/registers dding on CPUs to be for the Q Series. | operation will not be grent manufacturers citions of the CC-Link dipublished by CC-Link dicated cables, the high sused together. we station cut-off functs, test/monitor) used together. | guaranteed if the can be used toge dedicated cable of k Partner Associ gh-performance of ction, | e other cable is ther if they support the contact in ation or visit its CC-Link dedica Remote I/O i Scan synchi Automatic Ci Reserved s Error invalid stat Support for d | used. port Ver.1. Information web site a tted cables network meronous fun C-Link star station func tion setting luplex func | on them, refute that http://www.and Ver.1.10 ode*1 ction rtup*2 ction g function ction*2 | .cc-link.org. 0-compatible CC- | Link dedicated |
| Function | (Standl *1 N *2 T If relay terminal block | by master function, Automat error detection by link s May not be supported deper This function is available only | Please note that Cables from diffe For the specification product catalogs The CC-Link decables cannot be the cables cannot be the captain functions. The CC-Link captain for the CC-Link captain for the CC-Link captain for the captain for the captain for the CC-Link captain for the captain fo | operation will not be grent manufacturers citions of the CC-Link dipublished by CC-Link dicated cables, the high sused together. we station cut-off functs, test/monitor) used together. | guaranteed if the can be used toge dedicated cable of the Partner Associated ph-performance of the call of the cal | e other cable is ther if they support the contact in ation or visit its CC-Link dedica Remote I/O i Scan synchi Automatic Ci Reserved s Error invalid stat Support for d | used. port Ver.1. Information web site a tted cables network meronous fun C-Link star station func tion setting luplex func | on them, refute that http://www.and Ver.1.10 ode*1 ction rtup*2 ction g function ction*2 | .cc-link.org. 0-compatible CC- | Link dedicated |
| Function | (Standl *1 N *2 T If relay terminal block Connect cables direct | by master function, Automat error detection by link s May not be supported deper This function is available only ks or relay connectors are useful to each CC-Link module | Please note that Cables from diffe For the specifical product catalogs The CC-Link dec cables cannot be tic refresh function* AS functions creturn function, Slat pecial relays/registers ading on CPUs to be for the Q Series. Sed for the CC-Link ca or consider using the | operation will not be greent manufacturers citions of the CC-Link dipublished by CC-Link dicated cables, the high sused together. we station cut-off functs, test/monitor) used together. able installation, the compact of the compa | guaranteed if the can be used toge dedicated cable of the can be used toge dedicated cable of the can be used to the can be used to the case of the ca | e other cable is ther if they support the contact in ation or visit its CC-Link dedica Remote I/O i Scan synchi Automatic Ci Reserved s Error invalid stat Support for d | used. port Ver.1. Information web site a tted cables network meronous fun C-Link star station func tion setting luplex func | on them, refute that http://www.and Ver.1.10 ode*1 ction rtup*2 ction g function ction*2 | .cc-link.org. 0-compatible CC- | Link dedicated |
| Function | (Standl *1 N *2 T If relay terminal block Connect cables direct For the recommende | by master function, Automat error detection by link s May not be supported deper This function is available only ks or relay connectors are useful to each CC-Link module ed connection condition of C | Please note that Cables from diffe For the specifical product catalogs The CC-Link dec cables cannot be tic refresh function* AS functions creturn function, Slat pecial relays/registers ading on CPUs to be for the Q Series. Sed for the CC-Link ca or consider using the | operation will not be greent manufacturers continued to the CC-Link depublished by CC-Link depublished by CC-Link dicated cables, the high expectation cut-off functions, test/monitor) used together. Able installation, the content of the content | guaranteed if the can be used toge dedicated cable of k Partner Associ gh-performance of the communication enodules. | e other cable is ther if they support the contact in ation or visit its CC-Link dedica Remote I/O i Scan synchi Automatic Ci Reserved s Error invalid stat Support for d rror may occur | used. port Ver.1. nformation web site a ted cables network m ronous fun C-Link star tation function setting tuplex func depending | on them, refeat http://www. and Ver.1.11 ode*1 ction rtup*2 ction if function etion*2 g on the syste | .cc-link.org. 0-compatible CC- | Link dedicated |
| | (Standl *1 N *2 T If relay terminal block Connect cables direct | by master function, Automat error detection by link s May not be supported deper This function is available only ks or relay connectors are useful to each CC-Link module ed connection condition of C | Please note that Cables from diffe For the specifical product catalogs The CC-Link dec cables cannot be tic refresh function* AS functions creturn function, Slat pecial relays/registers ading on CPUs to be for the Q Series. Sed for the CC-Link ca or consider using the | operation will not be greent manufacturers citions of the CC-Link dipublished by CC-Link dicated cables, the high sused together. we station cut-off functs, test/monitor) used together. able installation, the compact of the compa | guaranteed if the can be used toge dedicated cable of k Partner Associ gh-performance of the communication enodules. | e other cable is ther if they support the contact in ation or visit its CC-Link dedica Remote I/O i Scan synchi Automatic Ci Reserved s Error invalid stat Support for d | used. port Ver.1. nformation web site a ted cables network m ronous fun C-Link star tation function setting tuplex func depending | on them, refeat http://www. and Ver.1.11 ode*1 ction rtup*2 ction if function etion*2 g on the syste | .cc-link.org. 0-compatible CC- | Link dedicated |
| | (Standl *1 N *2 T If relay terminal block Connect cables direct For the recommende | by master function, Automat error detection by link s May not be supported deper This function is available only ks or relay connectors are useful to each CC-Link module ed connection condition of C | Please note that Cables from diffe For the specifica product catalogs The CC-Link dec cables cannot be tic refresh function* AS functions c return function, Sla pecial relays/registers ding on CPUs to be for the Q Series. Sed for the CC-Link ca or consider using the C-Link cable relay cor | operation will not be greent manufacturers continued to the CC-Link depublished by CC-Link depublished by CC-Link dicated cables, the high expectation cut-off functions, test/monitor) used together. Able installation, the content of the content | guaranteed if the can be used toge dedicated cable of k Partner Associ gh-performance of the communication endules. able below. | e other cable is ther if they support the contact ir ation or visit its CC-Link dedica Remote I/O i Scan synchi Automatic Ci Reserved s Error invalid stat Support for d error may occur | used. port Ver.1. nformation web site a ted cables network m ronous fun C-Link stai tation setting tuplex func depending | on them, refeat http://www.and Ver.1.10 ode*1 ction rtup*2 stion if function ttion*2 g on the syste | .cc-link.org. 0-compatible CC- | |
| | (Standl *1 N *2 T If relay terminal block Connect cables direct For the recommendet Transmission spee | by master function, Automat error detection by link s May not be supported deper This function is available only ks or relay connectors are useful to each CC-Link module and connection condition of C | Please note that Cables from diffe For the specifical product catalogs The CC-Link dec cables cannot be tic refresh function* AS functions creturn function, Slat pecial relays/registers ading on CPUs to be for the Q Series. Sed for the CC-Link ca or consider using the C-Link cable relay conster/local station or | operation will not be greent manufacturers cations of the CC-Link depublished by CC-Link dicated cables, the high eused together. We station cut-off functions, test/monitor) used together. able installation, the compact of the compact of the tall test of tall test of the tall test of | guaranteed if the can be used toge dedicated cable of k Partner Associ gh-performance of the communication endules. able below. | e other cable is ther if they support the contact in ation or visit its CC-Link dedica Remote I/O in Scan synchic Automatic Conference in Support for difference in the Conference in the Confe | used. port Ver.1. nformation web site a ted cables metwork m ronous fun C-Link stat station func tion setting tuplex func depending | on them, refeat http://www. and Ver.1.11 ode*1 ction rtup*2 ction if function etion*2 g on the syste | .cc-link.org. 0-compatible CC- | device stations. |
| Remarks Function | (Standl *1 N *2 T If relay terminal block Connect cables direct For the recommende | by master function, Automater of detection by link service of the supported deper this function is available only ks or relay connectors are used to the support of the sup | Please note that Cables from diffe For the specifica product catalogs The CC-Link dec cables cannot be tic refresh function* AS functions c return function, Slav pecial relays/registers ding on CPUs to be of the Q Series. Sed for the CC-Link ca or consider using the C-Link cable relay con ster/local station or nd adjacent station | operation will not be gerent manufacturers cutions of the CC-Link depublished by CC-Link depublished by CC-Link depublished cables, the high sused together. It is a station cut-off function of the companient of the cut-off function of the cut-of | guaranteed if the can be used toge dedicated cable of k Partner Associ gh-performance of the communication endules. able below. | e other cable is ther if they support the contact in ation or visit its CC-Link dedica Remote I/O in Scan synchic Automatic Conference in Support for difference in the Conference in the Confe | used. port Ver.1. nformation web site a ted cables metwork m ronous fun C-Link stat station func tion setting tuplex func depending | on them, refeat http://www. and Ver.1.11 ode*1 ction rtup*2 ction if function etion*2 g on the syste | .cc-link.org. 0-compatible CC- em. | device stations. |
| | (Standing 1 to 1 to 2 | by master function, Automater or detection by link set and the supported dependent of the supported dependent of the supported dependent of the supported dependent of the support of the | Please note that Cables from diffe For the specifical product catalogs The CC-Link dec cables cannot be tic refresh function* AS functions Creturn function, Slat pecial relays/registers ading on CPUs to be for the Q Series. Sed for the CC-Link caproner or consider using the C-Link cable relay consider using the C-Link cable relay consider using the consider using the C-Link cable relay consideration and the C-Link cable relay cable relay consideration and the C-Link cable relay cable relay cable rela | operation will not be greent manufacturers cations of the CC-Link depublished by CC-Link depublished by CC-Link depublished cables, the high expectation cut-off functions, test/monitor) used together. able installation, the compact of the compactor, refer to the tall 156kbps 625kbps 1m or more | guaranteed if the can be used toge dedicated cable of k Partner Associ gh-performance of the communication endules. able below. | e other cable is ther if they support the contact in ation or visit its CC-Link dedica Remote I/O in Scan synchic Automatic Conference in Support for difference in the Conference in the Confe | used. port Ver.1. nformation web site a ted cables metwork m ronous fun C-Link stat station func tion setting tuplex func depending | on them, refeat http://www. and Ver.1.11 ode*1 ction rtup*2 ction if function etion*2 g on the syste | .cc-link.org. 0-compatible CC- em. | device stations. |
| | (Standl *1 N *2 T If relay terminal bloc Connect cables direct For the recommendet Transmission speed Cable length between stations | by master function, Automater or detection by link service of the supported dependent of the support of the sup | Please note that Cables from diffe For the specifical product catalogs The CC-Link dec cables cannot be tic refresh function* AS functions Creturn function, Slat pecial relays/registers ading on CPUs to be for the Q Series. Sed for the CC-Link caproner or consider using the C-Link cable relay consider using the C-Link cable relay consider using the consider using the C-Link cable relay consideration and the C-Link cable relay cable relay consideration and the C-Link cable relay cable relay cable rela | operation will not be grent manufacturers citions of the CC-Link dipublished by CC-Link dipublished by CC-Link dicated cables, the high sused together. We station cut-off functs, test/monitor) used together. able installation, the city of CC-Link repeater monector, refer to the tail 156kbps 625kbps 1m or more 2m or more 30cm or more | guaranteed if the can be used toge dedicated cable of k Partner Associ gh-performance of the communication endules. able below. | e other cable is ther if they support the contact in ation or visit its CC-Link dedica Remote I/O in Scan synchic Automatic Conference in Support for difference in the Conference in the Confe | used. port Ver.1. nformation web site a ted cables metwork m ronous fun C-Link stat station func tion setting tuplex func depending | on them, refeat http://www. and Ver.1.10 ode*1 ction rtup*2 stion function stion*2 g on the syste applicable mote I/O stati | .cc-link.org. 0-compatible CC- em. | device stations. |
| | (Standing 1 to 1 to 2 | by master function, Automater or detection by link service and the supported dependent of the support of the su | Please note that Cables from diffe For the specifical product catalogs The CC-Link dec cables cannot be tic refresh function* AS functions Creturn function, Slat pecial relays/registers ading on CPUs to be for the Q Series. Sed for the CC-Link caproner or consider using the C-Link cable relay consider using the C-Link cable relay consider using the consider using the C-Link cable relay consideration and the C-Link cable relay cable relay consideration and the C-Link cable relay cable relay cable rela | operation will not be gerent manufacturers cutions of the CC-Link depublished by CC-Link depublished by CC-Link depublished cables, the high sused together. It is a station cut-off function of the companient of the cut-off function of the cut-of | guaranteed if the can be used toge dedicated cable of k Partner Associ gh-performance of the communication endules. able below. | e other cable is ther if they support the contact in ation or visit its CC-Link dedica Remote I/O in Scan synchic Automatic Conference in Support for difference in the Conference in the Confe | used. port Ver.1. nformation web site a ted cables metwork m ronous fun C-Link stat station func tion setting tuplex func depending | on them, refeat http://www. and Ver.1.11 ode*1 ction rtup*2 ction function ction*2 on the system applicable mote I/O stati | .cc-link.org. 0-compatible CC- em. | device stations. |

Differences between CC-Link Ver.2 and Ver.1

With CC-Link Ver. 2, the cyclic data size can be increased through extended cyclic setting.

CC-Link Ver.1 specifications

| Item Maximum number of link points Number of link points per station | | | Specifications | |
|--|--------------------|--|--|-----------------------------------|
| | | Remote I/O (RX, RY): 2048 points each | Remote register (RWw): 256 points | Remote register (RWr): 256 points |
| | | Remote I/O (RX, RY): 32 points each | Remote register (RWw): 4 points | Remote register (RWr): 4 points |
| Number of link points | Occupied 1 station | Remote I/O (RX, RY): 32 points each | Remote register (RWw): 4 points | Remote register (RWr): 4 points |
| for each number | Occupied 2 station | Remote I/O (RX, RY): 64 points each | Remote register (RWw): 8 points | Remote register (RWr): 8 points |
| | Occupied 3 station | Remote I/O (RX, RY): 96 points each | Remote register (RWw): 12 points | Remote register (RWr): 12 points |
| of occupied stations | Occupied 4 station | Remote I/O (RX, RY): 128 points each | Remote register (RWw): 16 points | Remote register (RWr): 16 points |
| Number of connectable mod | dules | c: Number of modules 3 occupied stati 2) Number of connectable modules (16 x a) + (54 x b) + (88 x c) ≤ 2304 A: Number of remote I/O stations | on, b: Number of modules 2 occupied sta ons, d: Number of modules 4 occupied st | ations Max. 64 modules |

CC-Link Ver.2 specifications

| | Item | | | Specifications Remote I/O (RX, RY): 8192 points each, Remote register (RWw): 2048 points, Remote register (RWr): 2048 points | | | | | |
|--|--------------------------------|-----------------------------|---|---|--|--|--|--|--|
| Maximum number of link points | | Remote I/O (RX, RY): 8192 p | points each, Remote register (RWw): | 2048 points, Remote register (RWr | r): 2048 points | | | | |
| Expa | anded cyclic setting | | Single | Double | Quadruple | Octuple | | | |
| | | Remote I/O (RX, RY) | 32 points each | 32 points each | 64 points each | 128 points each | | | |
| Nun | ber of link points per station | Remote register (RWw) | 4 points | 8 points | 16 points | 32 points | | | |
| | | Remote register (RWr) | 4 points | 8 points | 16 points | 32 points | | | |
| | | Remote I/O (RX, RY) | 32 points each | 32 points each | 64 points each | 128 points each | | | |
| 는 s | Occupied 1 station | Remote register (RWw) | 4 points | 8 points | 16 points | 32 points | | | |
| eaction | | Remote register (RWr) | 4 points | 8 points | 16 points | 32 points | | | |
| Number of link points for each number of occupied stations | | Remote I/O (RX, RY) | 64 points each | 96 points each | 192 points each | 384 points each | | | |
| nts | Occupied 2 station | Remote register (RWw) | 8 points | 16 points | 32 points | 64 points | | | |
| iod igu | | Remote register (RWr) | 8 points | 16 points | 32 points | 64 points | | | |
| F 8 | | Remote I/O (RX, RY) | 96 points each | 160 points each | 320 points each | 640 points each | | | |
| - to | Occupied 3 station | Remote register (RWw) | 12 points | 24 points | 48 points | 96 points | | | |
| ber | | Remote register (RWr) | 12 points | 24 points | 48 points | 96 points | | | |
| Ĭ I | | Remote I/O (RX, RY) | 128 points each | 224 points each | 448 points each | 896 points each | | | |
| ž | Occupied 4 station | Remote register (RWw) | 16 points | 32 points | 64 points | 128 points | | | |
| | | Remote register (RWr) | 16 points | 32 points | 64 points | 128 points | | | |
| | | | 1) Total number of stations | | | | | | |
| | | | $(a + a2 + a4 + a8) + (b + b2 + b4 + b8) \times 2 + (c + c2 + c4 + c8) \times 3 + (d + d2 + d4 + d8) \times 4 \le 64$ | | | | | | |
| | | | 2) Number of input/output points of | of all remote stations | | | | | |
| | | | (a x 32 + a2 x 32 + a4 x 64 + a | 8 x 128) + (b x 64 + b2 x 96 + b4 x 1 | 92 + b8 x 384) | | | | |
| | | | + $(c \times 96 + c2 \times 160 + c4 \times 320 + c8 \times 640) + (d \times 128 + d2 \times 224 + d4 \times 448 + d8 \times 896) \le 8192$ | | | | | | |
| | | | 3) Number of all remote register points | | | | | | |
| | | | (a x 4 + a2 x 8 + a4 x 16 + a8) | x 32) + (b x 8 + b2 x 16 + b4 x 32 + b | 8 x 64) | | | | |
| | | | + (c x 12 + c2 x 24 + c4 x 48 + | - c8 x 96) + (d x 16 + d2 x 32 + d4 x | 64 + d8 x 128) ≤ 2048 | | | | |
| | | | a : The total number of ver.1 compa | tible slave stations that occupy 1 station, a | nd ver.2 compatible slave stations that oc | cupy 1 station which are set to "Single". | | | |
| | | | b : The total number of ver.1 compa | tible slave stations that occupy 2 stations, | and ver.2 compatible slave stations that o | ccupy 2 stations which are set to "Single" | | | |
| | | | c : The total number of ver.1 compa | tible slave stations that occupy 3 stations, | and ver.2 compatible slave stations that o | ccupy 3 stations which are set to "Single" | | | |
| | | | d : The total number of ver.1 compa | tible slave stations that occupy 4 stations, | and ver.2 compatible slave stations that o | ccupy 4 stations which are set to "Single" | | | |
| | | | a2: The number of ver.2 compatible | le stations that occupy 1 station which a | e set to "Double". | | | | |
| | | | b2: The number of ver.2 compatible | le stations that occupy 2 stations which a | are set to "Double". | | | | |
| Nun | nber of connected modules | | c2 : The number of ver.2 compatible | le stations that occupy 3 stations which a | are set to "Double". | | | | |
| | | | d2: The number of ver.2 compatible | le stations that occupy 4 stations which a | are set to "Double". | | | | |
| | | | a4: The number of ver.2 compatible stations that occupy 1 station which are set to "Quadruple". | | | | | | |
| | | | b4: The number of ver.2 compatible | le stations that occupy 2 stations which a | are set to "Quadruple". | | | | |
| | | | c4 : The number of ver.2 compatible | le stations that occupy 3 stations which a | are set to "Quadruple". | | | | |
| | | | d4: The number of ver.2 compatible | le stations that occupy 4 stations which a | are set to "Quadruple". | | | | |
| | | | a8: The number of ver.2 compatible | le stations that occupy 1 station which a | re set to "Octuple". | | | | |
| | | | b8: The number of ver.2 compatible | le stations that occupy 2 stations which a | are set to "Octuple". | | | | |

c8 : The number of ver.2 compatible stations that occupy 3 stations which are set to "Octuple". d8: The number of ver.2 compatible stations that occupy 4 stations which are set to "Octuple".

A: Number of remote I/O stations ----- Max. 64 modules B: Number of remote device stations ----- Max. 42 modules C: Number of local stations, standby master stations and intelligent device stations Max. 26 modules

4) Number of connectable modules 16 x A+54 x B+88 x C ≤ 2304

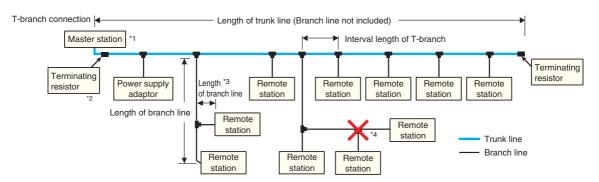
^{* 2)} and 3) are Ver. 2 mode only; calculation is necessary.
* There is no change in the cable and wiring specification for CC-Link Ver. 2. Use Ver. 1 cable for the connection of Ver. 2 devices.



CC-Link/LT specifications

| | | Item | | 4-point mode | 8-point mode | 16-point mode | | |
|------------------------|-------------------------|------------------------------------|------------------|--|------------------------------|---------------------------|--|--|
| | Maximum number of | link points (When the same I/O a | ddress is used) | 256 points (512 points) | 512 points (1024 points) | 1024 points (2048 points) | | |
| ,, L | Number of link points | s per station (When the same I/O | address is used) | 4 points (8 points) | 8 points (16 points) | 16 points (32 points) | | |
| Control specifications | | | Number of points | 128 points | 256 points | 512 points | | |
| g | | When 32 stations connected | 2.5Mbps | 0.7ms | 0.8ms | 1.0ms | | |
| 5 | | When 32 stations connected | 625kbps | 2.2ms | 2.7ms | 3.8ms | | |
| 20 | Link scan time | | 156kbps | 8.0ms | 10.0ms | 14.1ms | | |
| 5 | Link court and | | Number of points | 256 points | 512 points | 1024 points | | |
| 5 | | When 64 stations connected | 2.5Mbps | 1.2ms | 1.5ms | 2.0ms | | |
| ٦ | | | 625kbps | 4.3ms | 5.4ms | 7.4ms | | |
| | | | 156kbps | 15.6ms | 20.0ms | 27.8ms | | |
| | Transmission speed | | | 2.5Mbps/625kbps/156kbps | | | | |
| <u> </u> | Communication prote | ocol | | BITR (Broadcastpolling + Interval Timed Response) | | | | |
| specifications | Transmission path | | | T-branch type | | | | |
| 3 | Error control system | | | CRC | | | | |
| 3 | Number of connectal | ble modules | | 64 | | | | |
| | Remote station numb | per | | 1 to 64 | | | | |
| | Maximum number of | connectable stations per branch li | ine | 8 | | | | |
| 2 | Distance between sta | ations | | No limit | | | | |
| ≣ L | T-branch interval | | | No limit | | | | |
| | Master station position | on | | End of trunk line | | | | |
| 5 | RAS function | | | Network diagnosis, Internal loopback diagnosis, Station detach function, Automatic return function | | | | |
| | Connection cable | | | Dedicated flat cable (0.75mm ² x 4), VCT | F cable, high flexible cable | | | |

CC-Link/LT network wiring specifications



| Item | Specifications | | | Remarks |
|--|----------------|-----------|---------|--|
| Transmission speed | 2.5Mbps | 625kbps | 156kbps | - |
| Distance between stations | No limit | | | - |
| Maximum Number of stations on a trunk line | | 8 modules | | |
| Length of trunk line | 35m | 100m | 500m | Cable length between 2 terminating resistors (Branch line length not included) |
| T-branch interval | | No limit | | - |
| Maximum length of branch line | 4m 16m 60m | | 60m | Cable length per branch line |
| Overall length of branch lines | 15m | 50m | 200m | Total length of all trunk lines |

Precautions when mixed cables are used





3 Different types of cables cannot be used together on the same branch line.

* When the module with cable (e.g. CL1Y2-T1D2S) is used, it can be connected to a different type of cable by making sure the dedicated cables are within 20 cm.

^{*1} Always install the master module at one end of the trunk line.
*2 Install a terminating resistor near the master module (within 20cm).

^{*3} The length of a line branched from a branch line is also included in the max, branch

line length and overall branch line length.

*4 Cables cannot be connected between branch lines

General specifications

| | _ | | Specific | antinus | | | |
|-------------------------------|---------------------------------|--|---|--|------------------------|---------------------------------------|--|
| Item | | CC-Link | Specific | CC-Link/LT | | | |
| Operating ambient temperature | | 0 to 55°C *3 | | 0 to 55°C *4 | | | |
| Storage ambient temperature | | -20 to 75°C *3 | | | -25 to 75°C *4 | | |
| Storage ambient temperature | | 10 to 90%RH, non-condensing *5 | | | RH, no condensation a | lowed | |
| Operating ambient humidity | | | IP67 standard *6) | | IS B 3502, IEC 61131-2 | | |
| | (The waterproof type remote i/C | The waterproof type remote I/O modules conform to the IP67 standard. *6) | | | RH, no condensation a | · · · · · · · · · · · · · · · · · · · | |
| Storage ambient humidity | 10 to 90% | RH, non-condensing *6 | (conforming to JIS B 3502, IEC 61131-2, level RH-2) | | | | |
| | | | Frequency | Acceleration | Amplitude | Number of sweeps | |
| | Conforming to | Under | 5 to 8.4Hz | Acceleration | 3.5mm | realiber of sweeps | |
| Vibration resistance | JIS B 3502. | intermittent vibration | 8.4 to 150Hz | 9.8m/s ² | - | 10 times each | |
| VIBIGIOTI TOSISTATIO | IEC 61131-2 | Under | 5 to 8.4Hz | 0.011/0 | 1.75mm | in X, Y and Z directions | |
| | | continuous vibration | 8.4 to 150Hz | 4.9m/s ² | - | (for 80minutes) | |
| Shock resistance | | | | m/s ² , 3 times in each of 3 dire | ctions X Y and 7) | | |
| Operating ambience | | | No corrosi | | | | |
| Operating altitude | | | 2000m (6562f | | | | |
| Installation location | | | Inside con | , | | | |
| Overvoltage category *1 | | | II or lo | • | | | |
| Pollution degree *2 | | | 2 or lo | ower | | | |

- *1: It indicates the device is to be connected to which power distribution part, within the area from the *1: It indicates the device is to be connected to which power distribution part, within the area from the public electricity network to machinery on the premises.
 Category II applies to devices to which power is supplied from fixed installations.
 The surge voltage withstand for devices rated up to 300V is 2500V.
 *2: This is an index showing the degree of the conductive pollution that can occur in the environment where the device is used.
 In Pollution degree 2, only nonconductive pollution occurs.
 Occasionally, however, temporary conductivity caused by condensation can be expected.
 *3: The table below shows the operating ambient temperature and storage ambient temperature for the AJ65FBTA-RPH type waterproof remote I/O modules and Q Series master module.

| Ite | em | AJ65FBTA-RPH | Q Series Master module |
|-----------------------------|--------------------------------|--------------|------------------------|
| Operating ambi | ent temperature | 0 to 45°C | 0 to 55°C |
| Storage ambient temperature | Not wired (standalone product) | -25 to 75°C | -25 to 75°C |

- 2 of lower

 4: The ambient operating/storage temperatures satisfy requirements in excess of the JIS B 3502, IEC61131-2 standards.

 5: Use the master module for the Q Series within an ambient operating humidity of 5 to 95%.

 6: This is applicable to conditions where waterproof connectors are used for all modules or waterproof caps are placed in unused through-pipes.

 7: Do not operate or store the programmable controller at altitude 0m or more in a pressurized environment. It may malfunction if it is operated.

 Contact us when operating in a pressurized state.



CLPA(CC-Link Partner Association) actively promotes the worldwide adoption of CC-Link networks

From promotion to specification development, CLPA actively supports CC-Link

CLPA(CC-Link Partner Association) was established to promote the worldwide adoption of the CC-Link open field network.

By conducting promotional activities, such as organizing trade shows and seminars, implementing conformance tests, and providing catalogs, brochures, and website information, CLPA has been successfully increasing the number of CC-Link partner manufacturers and CC-Link compatible products. CLPA takes a major role in the globalization of CC-Link.







Seminar

Trade show

Conformance Testing Lab

The latest CC-Link information is posted on the website.

URL: http://www.cc-link.org



6F Ozone Front Bldg. 3-15-58 Ozone, Kita-ku, Nagoya 462-0825 JAPAN

TEL: +81-52-919-1588 FAX: +81-52-916-8655

E-mail: info@cc-link.org

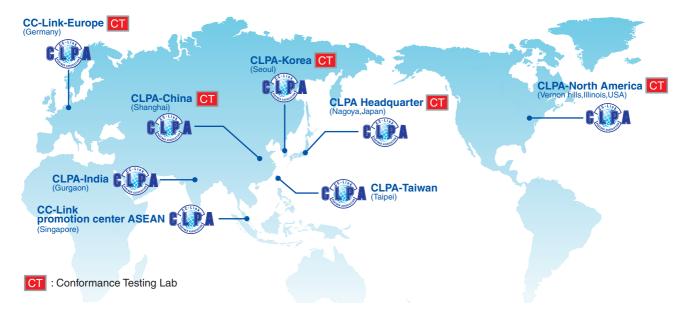


CC-Link continues to increase its global influence

CC-Link is supported globally by CLPA. With offices throughout the world, support for partner companies can be found locally.

Each regional CLPA office undertakes various support and promotional activities to further the influence of the network in that part of the world. For companies looking to increase their presence in Asia,

CLPA is well placed to assist these efforts through offices in all major Asian economies.





Extensive global support coverage providing expert

Global FA centers

"Mitsubishi Electric Global FA centers" have been established in various countries around the world to cover the Americas, Europe, and Asia. FA centers help to ensure compliance with the certifications and regulations of different regions, initiate product development in response to local demands, and provide full-time, professional customer service.



German FA Center

Mitsubishi Electric Europe B.V. German Branch Gothaer Strasse 8, D-40880 Ratingen, Germany Tel: +49-2102-486-0 / Fax: +49-2102-486-1120 Area covered: Mainly Western Europe



Russian FA Center

Mitsubishi Electric Europe B.V. Russian Branch St. Petersburg office Piskarevsky, pr. /2, bid 2, lit "Sch", BC "Benua", office 720; 195027; St. Petersburg, Russia Tei: +7-812-633-3497 / Fax: +7-812-633-3499 Area covered: Russia



Taiwan FA Center

L : Setsuyo Enterprise Co., Ltd. 6F., No.105, Wugong 3rd Road, Wugu District, New Taipei City 24889, Taiwan, R.O.C. Tel: +886-2-2299-2499 / Fax: +886-2-2299-250 B · Mitsubish Elostid Taiwa

R: Mitsubishi Electric Taiwan Co.,Ltd.





UK FA Center

Mitsubishi Electric Europe B.V. UK Branch Travellers Lane, Hatfield, Hertfordsh 8XB, UK.

Tel: +44-1707-28-8780 / Fax: +44-1707-27-8695



Czech republic FA Center

Mitsubishi Electric Europe B.V. Czech Branch

Praha5, Czech Republic Tel: +420-251-551-470 / Fax: +420-251-551-471 Area covered: Czech, Slovakia



European FA Center

Mitsubishi Electric Europe B.V. Polish Branch

32-083 Balice ul. Krakowska 50, Poland Tel: +48-12-630-47-00 / Fax: +48-12-630-47-01 Area covered: Central and Eastern Europe



Turkey FA Center

Mitsubishi Electric Turkey A.S

Ümraniye Branch Serifali Mahallesi Nutuk Sokak No:5 TR-34775

Umraniye, Istanbul, Turkey
Tel: +90-216-526-3990 / Fax: +90-216-526-3995
Area covered: Turkey



India FA Center

Mitsubishi Electric India Pvt. Ltd.

India Factory Automation Centre
Emerald House, EL-3, J Block, M.I.D.C., Bhosari,
Pune, 411026, Maharastra State, India Tel: +91-20-2710-2000 / Fax: +91-20-2710-2100 Area covered: India



Thailand FA Center

Mitsubishi Electric Automation (Thailand) Co., Ltd. witsdoshi Electric Attornation (Thaliand) 63., Etc. 12th Floor, SV.City Building, Office Tower 1, No. 896/1 and 20 Rama 3 Road, Kwaeng Bangpongpang, Khet Yannawa, Bangkok 10120, Thailand

China (including Hong Kong area)

Tel: +66-2682-6522 / Fax: +66-2682-6020 Area covered: Thailand



ASEAN FA Center

Mitsubishi Electric Asia Pte. Ltd.

ASEAN Factory Automation Centre
307 Alexandra Road #05-01/02,
Mitsubishi Electric Bulding, Singapore
Tel: +65-6470-2480 / Fax: +65-6476-7439 Tel: +65-6470-2480 / Fax: +65 Area covered: Southeast Asia



Beijing FA Center

Mitsubishi Electric Automation (CHINA) Ltd. Beijing Office
Unit 908, Office Tower 1, Henderson Centre, 18
Jianguomennei Avenue, Dongcheng District,

Beijing, China Tel: +86-10-6518-8830 / Fax: +86-10-6518-3907

Area covered: China



Tianjin FA Center

Mitsubishi Electric Automation (CHINA) Ltd.

Mitsubish Electric Automation (CHINA) Ltd.
Tianjin Office
Unit 2003, Tianjin City Tower, No.35, You Yi
Road, Hexi District, Tianjin, China
Tel: +86-22-2813-1015 / Fax: +86-22-2813-1017
Area covered: China



Guangzhou FA Center

Mitsubishi Electric Automation (CHINA) Ltd. **Guangzhou Office**

Guangzhou Office Rm. 1609, North Tower, The Hub Center, No. 1068, Xin Gang East Road, Haizhu District, Guangzhou, China Tel: +86-20-8923-6730 / Fax: +86-20-8923-6715

Changchun Shanghai Wuhang Fuzhou 🧳 Taipei Taichung Hong Kong

Local factory in China

Nagoya, Japan

Mitsubishi Electric Dalian Industrial Products Co., Ltd.

Local factory in China

Mitsubishi Electric Automation Manufacturing (Changshu) Co., Ltd.

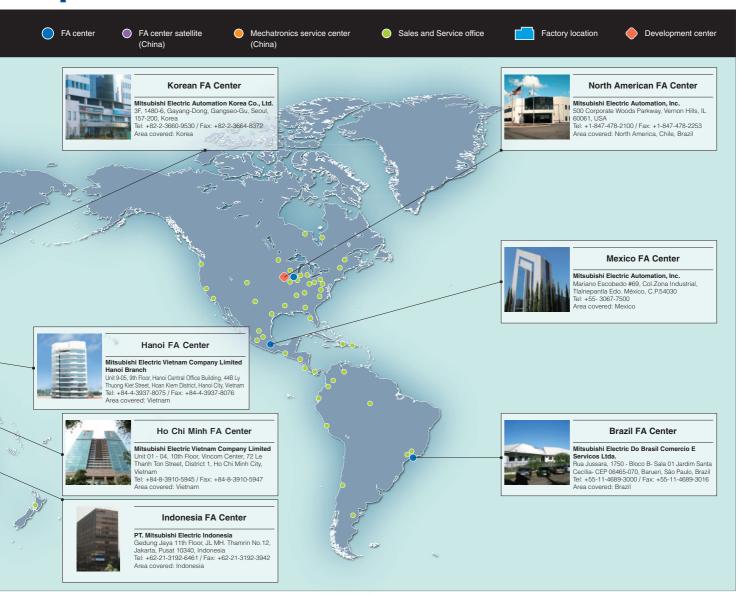
No.706 Southeast Building, Chengahu Southeast Economic Development Zone of Jiangsu, 215500 China
Tel: 86-512-5213-3077 / Fax: 86-512-5213-3088

Shanghai FA Center

Mitsubishi Electric Automation (China) Ltd. 10F, Mitsubishi Electric Automation Cer No. 1386 Honggiao Road, Changning District, Shanghai, China

Tel: 86-21-2322-3030 / Fax: 86-21-2322-3000

help whenever needed.









Compliance with international quality assurance standards.

All of Mitsubishi Electric's FA component products have acquired the international quality assurance "ISO9001" and environmental management system standard "ISO14001" certification. Mitsubishi Electric FA products also comply with many safety and shipping standards, including CE, UL, ABS, and DNV.

*For jointly developed and partner products, guaranteed quality standards may differ. Please refer to the product manuals for details.

Safety Standards



CE : Council Directive of the European Communities



UL : Underwriters Laboratories Listing

Shipping Standards



ClassNK NK

NK : ClassNK approval



GL : Germanischer Lloyd approval



DNV : Norwegian Maritime approval



ABS : American Bureau of Shipping approval



RINA : Italian Maritime approval



BV : Bureau Veritas approval



CC-Link Related Product Model Names

Mitsubishi Electric Corporation

| | Туре | Model | Specifications | Prot |
|------------|---------------------------|--|--|-------------------|
| | | QJ61BT11N | Master/local module for Q Series CC-Link Ver.2-compatible | |
| | | L26CPU-BT | CPU with master/local function for L Series CC-Link Ver.2-compatible Sink output type | |
| | | L26CPU-PBT | CPU with master/local function for L Series CC-Link Ver.2-compatible Source output type | |
| aster/loca | al module | LJ61BT11 | Master/local module for L Series CC-Link Ver.2-compatible | |
| | | FX2N-16CCL-M | Master block for FX Series (FX1N/FX2N/FX3U/FX1NC/FX2NC/FX3UC) | _ |
| | | A1SJ61QBT11 | Master/local module for QnAS/QnASHCPU | |
| | | A1SJ61BT11 | Master/local module for AnS/AnSH/AnUS/AnUSHCPU | - |
| | | NZ2GF-CCB | CC-Link IE Field Network-CC-Link bridge module | |
| idge mod | dule | NZ2AW1C1BY | CC-Link-AnyWire Bitty bridge module | IF |
| | | NZ2AW1C2D2 NZ2AW1C2AL | CC-Link-AnyWire DB A20bridge module Only for CC-Link Ver.2 use CC-Link-AnyWireASLINK bridge module CC-Link Ver.2 compatible | IF |
| | | AJ65SBTB2N-8A | Input 8 points: 100 to 120VAC 2-wire type Response time 20ms Terminal block type | IF |
| | | AJ65SBTB2N-16A | Input 16 points: 100 to 120VAC 2-wire type. Response time 20ms. Terminal block type. | IF |
| | | AJ65SBTB1-8D | Input 8 points: 24VDC (positive/negative common shared) 1-wire type Terminal block type Response time 1.5ms | IF |
| | | AJ65SBTB3-8D | Input 8 points: 24VDC (positive/negative common shared) 3-wire type Terminal block type Response time 1.5ms | II |
| | | AJ65SBTB1-16D | Input 16 points: 24VDC (positive/negative common shared) 1-wire type Terminal block type Response time 1.5ms | H |
| | | AJ65SBTB1-16D1 | Input 16 points: 24VDC (positive/negative common shared) 1-wire type High-speed response Terminal block type Response time 0.2ms | H |
| | | AJ65SBTB3-16D | Input 16 points: 24VDC (positive/negative common shared) 3-wire type Terminal block type Response time 1.5ms | H |
| | | AJ65SBTB3-16D5 | Input 16 points: 5VDC (positive/negative common shared) 3-wire type Terminal block type Response time 1.5ms | IF |
| | | AJ65SBTB3-16KD | Input 16 points: 24VDC (positive/negative common shared) 3-wire type Terminal block type Response time 0.2/1.5/5/10ms switching type | П |
| | | AJ65SBTB1-32D | Input 32 points: 24VDC (positive/negative common shared) 1-wire type Terminal block type Response time 1.5ms | H |
| | | AJ65SBTB1-32D1 | Input 32 points: 24VDC (positive/negative common shared) 1-wire type High-speed response Terminal block type Response time 0.2ms | H |
| | | AJ65SBTB1-32D5 | Input 32 points: 5VDC (positive/negative common shared) 1-wire type Terminal block type Response time 1.5ms | H |
| | | AJ65SBTB1-32KD | Input 32 points: 24VDC (positive/negative common shared) 1-wire type Terminal block type Response time 0.2/1.5/5/10ms switching type | П |
| | | AJ65SBTB1-8T | Output 8 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type | П |
| | | AJ65SBTB1-8T1 | Output 8 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) | П |
| | | AJ65SBTB2-8T | Output 8 points: 12/24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type | -1 |
| | | AJ65SBTB2-8T1 | Output 8 points: 12/24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) | 1 |
| | | AJ65SBTB1-16T | Output 16 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type | 1 |
| | | AJ65SBTB1-16T1 | Output 16 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) | 1 |
| | | AJ65SBTB2-16T | Output 16 points: 12/24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type | -1 |
| | | AJ65SBTB2-16T1 | Output 16 points: 12/24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) | - 1 |
| | | AJ65SBTB1-32T | Output 32 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type | - 1 |
| | | AJ65SBTB1-32T1 | Output 32 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) | - 1 |
| | | AJ65SBTB1-8TE | Output 8 points: 12/24VDC (0.1A) Transistor output (source type) 1-wire type Terminal block type | - 1 |
| | | AJ65SBTB1-16TE | Output 16 points: 12/24VDC (0.1A) Transistor output (source type) 1-wire type Terminal block type | |
| | | AJ65SBTB1B-16TE1 | Output 16 points: 12/24VDC (0.5A) Transistor output (source type) 1-wire type Terminal block type | - 1 |
| | | AJ65SBTB1-32TE1 | Output 32 points: 12/24VDC (0.5A) Transistor output (source type) 1-wire type Terminal block type | - 1 |
| | | AJ65SBTB2N-8R | Output 8 points: 24VDC/240VAC (2A) Relay output 2-wire type Terminal block type | 1 |
| | | AJ65SBTB2N-16R | Output 16 points: 24VDC/240VAC (2A) Relay output 2-wire type Terminal block type | 1 |
| | | AJ65SBTB2N-8S | Output 8 points: 100 to 240VAC (0.6A) Triac output 2-wire type Terminal block type | ! |
| | | AJ65SBTB2N-16S | Output 16 points: 100 to 240VAC (0.6A) Triac output 2-wire type Terminal block type | 1 |
| | | AJ65SBTB32-8DT | Input 4 points: 24VDC (positive common) 3-wire type Response time 1.5ms | 11 |
| | | | Output 4 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type | \vdash |
| note | Cavarrian al blank trus | AJ65SBTB32-8DT2 | Input 4 points: 24VDC (positive common) 3-wire type Response time 1.5ms | l II |
| module | Screw terminal block type | | Output 4 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) | \vdash |
| | | AJ65SBTB1-16DT | Input 8 points: 24VDC (positive common)1-wire type Response time 1.5ms | l II |
| | | | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 8 points: 24VDC (positive common)1-wire type High-speed response Response time 0.2ms | \vdash |
| | | AJ65SBTB1-16DT1 | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type | H |
| | | | input 8 points: 24VDC (positive common) 1-wire type Response time 1.5ms | \vdash |
| | | AJ65SBTB1-16DT2 | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) | 11 |
| | | | Input 8 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms | |
| | | AJ65SBTB1-16DT3 | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) | 11 |
| | | | Input 8 points: 24VDC (positive common) 3-wire type Response time 1.5ms | Ι. |
| | | AJ65SBTB32-16DT | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type | 1 |
| | | A ICEOPTROC 10DT | Input 8 points: 24VDC (positive common) 3-wire type Response time 1.5ms | ١. |
| | | | | |
| | | AJ65SBTB32-16DT2 | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) | l ' |
| | | | | \vdash |
| | | AJ65SBTB32-16KDT2 | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) | \vdash |
| | | AJ65SBTB32-16KDT2 | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type | II |
| | | | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) | ı |
| | | AJ65SBTB32-16KDT2 AJ65SBTB32-16KDT8 | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type | 11 |
| | | AJ65SBTB32-16KDT2 | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 12VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) | 11 |
| | | AJ65SBTB32-16KDT2 AJ65SBTB32-16KDT8 AJ65SBTB32-16KDR | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Output 8 points: 12VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive/negative common shared) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (positive/negative common shared) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (positive/negative common shared) 3-wire type Terminal block type Input 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms | 11 |
| | | AJ65SBTB32-16KDT2 AJ65SBTB32-16KDT8 | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 12VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive/negative common shared) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (positive/negative common shared) 3-wire type Response time 0.2/1.5/5/10ms switching type Input 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type | 11 |
| | | AJ65SBTB32-16KDT2 AJ65SBTB32-16KDT8 AJ65SBTB32-16KDR AJ65SBTB1-32DT | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 12VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive/negative common shared) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC/240VAC (2A) Relay output 2-wire type Response time 0.2/1.5/5/10ms switching type Input 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms | 11 |
| | | AJ65SBTB32-16KDT2 AJ65SBTB32-16KDT8 AJ65SBTB32-16KDR | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Output 8 points: 12VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive/negative common shared) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (positive/negative common shared) 3-wire type Response time 0.2/1.5/5/10ms switching type Input 16 points: 24VDC (Dositive common) 1-wire type Response time 1.5ms Output16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms Output16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type | 11 |
| | | AJ65SBTB32-16KDT2 AJ65SBTB32-16KDT8 AJ65SBTB32-16KDR AJ65SBTB1-32DT | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive/negative common shared) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (positive/negative common) 1-wire type Terminal block type Input 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms Output16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (positive common) 1-wire type Response Terminal block type Input 16 points: 24VDC (positive common) 1-wire type Response Terminal block type Input 16 points: 24VDC (positive common) 1-wire type Response Terminal block type | 11 |
| | | AJ65SBTB32-16KDT2 AJ65SBTB32-16KDT8 AJ65SBTB32-16KDR AJ65SBTB1-32DT AJ65SBTB1-32DT1 | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 12VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive/negative common shared) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (positive/negative common shared) 3-wire type Terminal block type Input 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms Output16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) | 11 |
| | | AJ65SBTB32-16KDT2 AJ65SBTB32-16KDR AJ65SBTB32-16KDR AJ65SBTB1-32DT AJ65SBTB1-32DT1 AJ65SBTB1-32DT2 | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive/negative common shared) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (positive/negative common shared) 3-wire type Terminal block type Input 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms Output16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output16 points: 24VDC (positive common) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (positive common) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (positive common) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (positive common) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (positive common) 1-wire type Terminal block type Terminal block type (low-leakage current type) | 11 |
| | | AJ65SBTB32-16KDT2 AJ65SBTB32-16KDT8 AJ65SBTB32-16KDR AJ65SBTB1-32DT AJ65SBTB1-32DT1 | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive/negative common shared) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (positive/negative common shared) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) | 11 |
| | | AJ65SBTB32-16KDT2 AJ65SBTB32-16KDT8 AJ65SBTB32-16KDR AJ65SBTB1-32DT AJ65SBTB1-32DT1 AJ65SBTB1-32DT2 AJ65SBTB1-32DT3 | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 12VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive/negative common shared) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (positive/negative common shared) 3-wire type Response time 0.2/1.5/5/10ms switching type Input 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (Dositive common) 1-wire type Response time 1.5ms Output16 points: 24VDC (Dositive common) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) | 11 |
| | | AJ65SBTB32-16KDT2 AJ65SBTB32-16KDR AJ65SBTB32-16KDR AJ65SBTB1-32DT AJ65SBTB1-32DT1 AJ65SBTB1-32DT2 | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (positive/negative common shared) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (positive common) 1-wire type Terminal block type Input 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms Output16 points: 24VDC (positive common) 1-wire type Terminal block type Input 16 points: 24VDC (positive common) 1-wire type Terminal block type Input 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms Output16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms Output16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms Output16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms Output16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms Output16 points: 24VDC (positive common) 1-wire type High-speed response Response time 1.5ms Output16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) | IF IF IF IF |
| | | AJ65SBTB32-16KDT2 AJ65SBTB32-16KDR AJ65SBTB32-16KDR AJ65SBTB1-32DT AJ65SBTB1-32DT1 AJ65SBTB1-32DT2 AJ65SBTB1-32DT3 AJ65SBTB1-32DTE1 | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive/negative common shared) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (positive/negative common) 1-wire type Terminal block type Input 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms Output16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output | IF IF IF IF IF |
| | | AJ65SBTB32-16KDT2 AJ65SBTB32-16KDT8 AJ65SBTB32-16KDR AJ65SBTB1-32DT AJ65SBTB1-32DT1 AJ65SBTB1-32DT2 AJ65SBTB1-32DT3 | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 12VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive/negative common shared) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (positive/negative common shared) 3-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 8 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type | IF IF IF IF IF |
| | | AJ65SBTB32-16KDT2 AJ65SBTB32-16KDR AJ65SBTB32-16KDR AJ65SBTB1-32DT AJ65SBTB1-32DT1 AJ65SBTB1-32DT2 AJ65SBTB1-32DT3 AJ65SBTB1-32DTE1 | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive/negative common shared) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (positive/negative common shared) 3-wire type Terminal block type Input 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms Output16 points: 24VDC (D.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms Output16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms Output16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms Output16 points: 24VDC (positive common) 1-wire type High-speed response Response time 1.5ms Output16 points: 24VDC (positive common) 1-wire type High-speed response Response time 1.5ms Output16 points: 24VDC (positive common) 1-wire type High-speed response Response time 1.5ms Output16 points: 24VDC (positive common) 1-wire type High-speed response Response time 1.5ms Output16 points: 24VDC (positive common) 1-wire type Ferminal block type Input 8 points: 24VDC (positive common) 1-wire type Terminal block type Input 8 points: 24VDC (positive common) 1-wire type Terminal block type Input 8 points: 24VDC (positive common) 1-wire type Terminal block type Input 8 points: 24VDC (po | IF IF IF IF IF IF |
| | | AJ65SBTB32-16KDT2 AJ65SBTB32-16KDR AJ65SBTB32-16KDR AJ65SBTB1-32DT AJ65SBTB1-32DT1 AJ65SBTB1-32DT2 AJ65SBTB1-32DT3 AJ65SBTB1-32DTE1 AJ65SBTB1-32DTE1 | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 12VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type) Input 8 points: 24VDC (positive/negative common shared) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC (positive/negative common shared) 3-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 8 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type | 111 |

| | Туре | Model | Specifications | Protection level |
|------------|--|---|--|---------------------|
| | | AJ65BTB1-16D | Input 16 points: 24VDC (positive/negative common shared) 1-wire type Terminal block type Response time 10ms | IP2X |
| | | AJ65BTB2-16D | Input 16 points: 24VDC (positive/negative common shared) 2-wire type Terminal block type Response time 10ms | IP2X |
| | | | Output 16 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type | IP2X |
| | | AJ65BTB1-16T | | IP2X |
| | | AJ65BTB2-16T | Output 16 points: 12/24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type | |
| | Screw/2-piece | AJ65BTB2-16R | Output 16 points: 24VDC/240VAC (2A) Relay output 2-wire type Terminal block type | IP1X |
| | terminal block type | AJ65BTB1-16DT | Input 8 points: 24VDC (positive common) Response time 10ms | IP2X |
| | terminal block type | AUGUSTINITION | Output 8 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type | 11 2/ |
| | | AJ65BTB2-16DT | Input 8 points: 24VDC (positive common) Response time 10ms | IP2X |
| | | AJ03B1B2-10D1 | Output 8 points: 12/24VDC (0.5A)Transistor output (sink type) 2-wire type Terminal block type | IFZA |
| | | AJ65BTB2-16DR | Input 8 points: 24VDC (positive/negative common shared) Response time 10ms | IP1X |
| | | AJ03B1B2-10DN | Output 8 points: 24VDC/240VAC (2A) Relay output 2-wire type Terminal block type | IFIX |
| | | AJ65DBTB1-32D | Input 32 points: 24VDC (positive/negative common shared) 1-wire type Terminal block type Response time 10ms | IP2X |
| | | AJ65DBTB1-32T1 | Output 32 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type) | IP2X |
| | | AJ65DBTB1-32R | Output 32 points: 24VDC/240VAC (2A) Relay output 1-wire type Terminal block type | IP1X |
| | A2C form | A003DBTBT-02IT | Input 16 points: 24VDC (positive common) Response time 10ms | 11 17 |
| | terminal block type | AJ65DBTB1-32DT1 | | IP2X |
| | | | Output 16 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (positive/negative common shared) Response time 10ms | |
| | | AJ65DBTB1-32DR | | IP1X |
| | Coving alama tauminal blook | A JOS A DEDO AOD | Output 16 points: 24VDC/240VAC (2A) Relay output 1-wire type Terminal block type | ID1VD |
| | Spring clamp terminal block | AJ65ABTP3-16D | Input 16 points: 24VDC/6mA (positive common) 3-wire type Response time 1.5ms *1 | IP1XB |
| | push-in type | AJ65ABTP3-16DE | Input 16 points: 24VDC/6mA (negative common) 3-wire type Response time 1.5ms *1 | IP1XB |
| | | AJ65VBTS3-16D | Input 16 points: 24VDC/5mA (negative common) 3-wire type Response time 1.5ms | IP1XB |
| | | AJ65VBTS3-32D | Input 32 points: 24VDC/5mA (negative common) 3-wire type Response time 1.5ms | IP1XB |
| | | AJ65VBTS2-16T | Output 16 points: 12/24VDC (0.5A) Transistor output (sink type) 2-wire type | IP1XB |
| | Spring clamp | AJ65VBTS2-32T | Output 32 points: 12/24VDC (0.5A) Transistor output (sink type) 2-wire type | IP1XB |
| | terminal block type | | Input 8 points: 24VDC/5mA (positive common) 3-wire type Response time 1.5ms | |
| | 2.00.0.1,00 | AJ65VBTS32-16DT | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type | IP1XB |
| | | | Input 16 points: 24VDC/5mA (positive common) 32-wire type Response time 1.5ms | |
| | | AJ65VBTS32-32DT | , , , | IP1XB |
| | | A IOS VETOES | Output 16 points: 12/24VDC (0.5A) Transistor output (sink type) 2-wire type | IDAYE |
| | | AJ65VBTCE3-8D | Input 8 points: 24VDC/5mA (positive common) 3-wire type Response time 1.5ms | IP1XB |
| | | AJ65VBTCE3-16D | Input 16 points: 24VDC/5mA (positive common) 3-wire type Response time 1.5ms | IP1XB |
| | Sensor connector type | AJ65VBTCE3-32D | Input 32 points: 24VDC/5mA (positive common) 3-wire type Response time 1.5ms | IP1XB |
| | | AJ65VBTCE3-16DE | Input 16 points: 24VDC/5mA (negative common) 3-wire type Response time 1.5ms | IP1XB |
| | | AJ65VBTCE3-32DE | Input 32 points: 24VDC/5mA (negative common) 3-wire type Response time 1.5ms | IP1XB |
| | | AJ65VBTCE2-8T | Output 8 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type | IP1XB |
| | | AJ65VBTCE2-16T | Output 16 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type | IP1XB |
| | | AJ65VBTCE3-16TE | | IP1XB |
| | | AJOSVBICES-IOIE | Output 16 points: 12/24VDC (0.1A) Transistor output (source type) 3-wire type | IFIAD |
| | | AJ65VBTCE32-16DT | Input 8 points: 24VDC/5mA (positive common) 3-wire type Response time 1.5ms | IP1XB |
| | | | Output 8 points: 24VDC (0.1A) Transistor output (sink type) 2-wire type | |
| Remote | | AJ65VBTCE3-16DTE | Input 8 points: 24VDC/5mA (negative common) 3-wire type Response time 1.5ms | IP1XB |
| I/O module | | 7,00015102010512 | Output 8 points: 24VDC (0.1A) Transistor output (source type) 3-wire type | ,,,, |
| | | A ICEVIDECE OF OOD | Input 16 points: 24VDC/5mA (positive common) 3-wire type Response time 1.5ms | IP1XB |
| | | AJ65VBTCE32-32DT | Output 16 points: 24VDC (0.1A) Transistor output (sink type) 2-wire type | II IAD |
| | | A JOSEVIDADES SODAE | Input 16 points: 24VDC/5mA (negative common) 3-wire type Response time 1.5ms | ID1VD |
| | | AJ65VBTCE3-32DTE | Output 16 points: 24VDC (0.1A) Transistor output (source type) 3-wire type | IP1XB |
| | | AJ65VBTCU3-8D1 | Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type | IP1XB |
| | | AJ65VBTCU3-16D1 | Input 16 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type | IP1XB |
| | | AJ65SBTC4-16DN | Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type | IP2X |
| | | AJ65SBTC4-16DE | Input 16 points: 24VDC (negative common) 4-wire type Response time 1.5ms One-touch connector type | IP2X |
| | | A0033B1C4-10DL | | 11 2/ |
| | | AJ65SBTC1-32D | Input 32 points: 24VDC (positive/negative common shared) 1-wire type | IP2X |
| | | | One-touch connector type (plug: sold separately) Response time 1.5ms | |
| | | AJ65SBTC1-32D1 | Input 32 points: 24VDC (positive/negative common shared) 1-wire type | IP2X |
| | | | High-speed response One-touch connector type (plug: sold separately) Response time 0.2ms | |
| | | AJ65VBTCU2-8T | Output 8 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type | IP1XB |
| | | AJ65VBTCU2-16T | Output 16 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type | IP1XB |
| | | AJ65SBTC1-32T | Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) | IP2X |
| | One-touch connector turns | AJ65SBTC1-32T1 | Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (low-leakage current type) | IP2X |
| | One-touch connector type | | Input 8 points: 24VDC (positive common) 4-wire type (for 8 sensors) Response time 1.5ms | IDOY |
| | | AJ65SBTC4-16DT | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 4-wire type One-touch connector type (plug: sold separately) | IP2X |
| | | | Input 8 points: 24VDC (positive common) 4-wire type Response time 1.5ms | |
| | | AJ65SBTC4-16DT2 | Output 8 points: 24VDC (0.5A) Transistor output (sink type) 4-wire type One-touch connector type (plug: sold separately) (low-leakage current type) | IP2X |
| | | | Input 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms | |
| | | AJ65SBTC1-32DT | Output 16 points: 24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) | IP2X |
| | | | | |
| | | AJ65SBTC1-32DT1 | Input 16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms | IP2X |
| | | | Output 16 points: 24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) | |
| | | AJ65SBTC1-32DT2 | Input 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms | IP2X |
| | | L | Output 16 points: 24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) (low-leakage current type) | |
| | | AJ65SBTC1-32DT3 | Input 16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms | IP2X |
| | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Output 16 points: 24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) (low-leakage current type) | 27 |
| | | AJ65SBTCF1-32D | Input 32 points: 24VDC (positive/negative common shared) 1-wire type Response time 1.5ms FCN connector type (40-pin connector) | IP2X |
| | | AJ65BTC1-32D | Input 32 points: 24VDC (positive/negative common shared) 1-wire type Response time 10ms FCN connector type (40-pin connector) | IP2X |
| | | AJ65SBTCF1-32T | Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type FCN connector type (40-pin connector) | IP2X |
| | | AJ65BTC1-32T | Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type FCN connector type (40-pin connector) | IP2X |
| | 40-pip conpostor time | , 1000D101-021 | Input 16 points: 24VDC (positive/negative common shared) 1-wire type Response time 1.5ms | 11 41 |
| | -o-pin connector type | AJ65SBTCF1-32DT | , | IP2X |
| | 40-pin connector type (FCN connector type) | | Output 16 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type FCN connector type (40-pin connector) | - |
| | (FCN connector type) | | Lead 40 and 44 and 45 a | |
| | (FCN connector type) | AJ65VBTCF1-32DT1 | Input 16 points: 24VDC (positive/negative common shared) 1-wire type Response time 0.2ms | IP1XB |
| | (FCN connector type) | AJ65VBTCF1-32DT1 | Output 16 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type FCN connector type | IP1XB |
| | (FCN connector type) | AJ65VBTCF1-32DT1 | | IP1XB |

^{*} Positive common: sink type, negative common: source type *1: These modules are used as remote device stations.



| | Тур | 9 | Model | Specifications | Protection level |
|--------------|-----------------|-----------------------|---------------------------|--|---------------------|
| | | | AJ65FBTA4-16D | Input 24VDC (positive common) 4-wire type Thin, waterproof type Response time 1.5ms | IP67 |
| | | | AJ65FBTA4-16DE | Input 24VDC (negative common) 4-wire type Thin, waterproof type Response time 1.5ms | IP67 |
| | | | AJ65FBTA2-16T | Output 16 points: 12/24VDC (0.5A) Transistor output (sink type) 2-wire type. Thin, waterproof type | IP67 |
| Remote | l | | AJ65FBTA2-16TE | Output 16 points: 12/24VDC (1.0A) Transistor output (source type) 2-wire type Thin, waterproof type | IP67 |
| /O module | Waterproof | connector type | | Input 8 points: 24VDC (positive common) 4-wire type Response time 1.5ms | ID07 |
| | | | AJ65FBTA42-16DT | Output 8 points: 24VDC (0.5A)Transistor output sink type 2-wire type Thin, waterproof type | IP67 |
| | | | | Input 8 points: 24VDC (negative common) 4-wire type Response time 1.5ms | ID0= |
| | | | AJ65FBTA42-16DTE | Output 8 points: 24VDC (1.0A) Transistor output (source type) 2-wire type Thin, waterproof type | IP67 |
| Safety relay | Spring clan | np | QS90SR2SP-CC | For CC-Link Safety input: 1 point (2 inputs) P type (positive common/positive common input) Safety output: 1 point (3 outputs) | IP1X |
| module | terminal blo | • | QS90SR2SN-CC | For CC-Link Safety input: 1 point (2 inputs) N type (positive common/negative common input) Safety output: 1 point (3 outputs) | IP1X |
| Safety | | | 11/00 00010000 | | |
| Controller | terminal blo | ock type | WS0-GCC100202 | CC-Link interface module for WS series | - |
| | | | AJ65SBT-64AD | 4-channel voltage/current input A/D conversion module (analog input module) | IP2X |
| | | Voltage/current input | AJ65SBT2B-64AD | 4-channel voltage/current input A/D conversion module (analog input module) High accuracy, high resolution, high speed | IP2X |
| | | | AJ65BT-64AD | 4-channel voltage/current input A/D conversion module (analog input module) Screw/2-Piece terminal block type | IP2X |
| | | | AJ65BT-64RD3 | 4-channel Pt100 (3-wire type) input Platinum RTD Pt100 temperature input | IP2X |
| | | | AJ65BT-64RD4 | 4-channel Pt100 (4-wire type) input Platinum RTD Pt100 temperature input | IP2X |
| | Screw | Temperature input | AJ65SBT2B-64TD | 4-channel thermocouple input Thermocouple temperature input module | IP2X |
| | terminal | | AJ65BT-68TD | 8-channel thermocouple input Thermocouple temperature input module | IP2X |
| Analog | block type | | AJ65SBT2B-64RD3 | 4-channel RTD input module | IP2X |
| nodule | | Voltage/current | AJ65SBT-62DA | 2-channel voltage/current output D/A conversion module (analog output module) | IP2X |
| | | output | AJ65SBT2B-64DA | 4-channel voltage/current output D/A conversion module (analog output module) | IP2X |
| | | Voltage output | AJ65BT-64DAV | 4-channel voltage output D/A conversion module (analog output module) | IP2X |
| | | Current output | AJ65BT-64DAI | 4-channel current output D/A conversion module (analog output module) | IP2X |
| | One-touch | Voltage input | AJ65VBTCU-68ADVN | 8-channel voltage input A/D conversion module (analog input module) CC-Link Ver.2-compatible | IP1XE |
| | connector | Current input | AJ65VBTCU-68ADIN | 8-channel current input A/D conversion module (analog input module) CC-Link Ver.2-compatible | IP1XE |
| | type | Voltage output | AJ65VBTCU-68DAVN | 8-channel voltage output D/A conversion module (analog output module) CC-Link Ver.2-compatible | IP1XE |
| | Lype | Voltage output | AJ65BT-D62 | DC input Preset DC input | IP2X |
| l lieb once | d counter mo | ماريام | | | IP2X |
| nign-spee | a counter mo | laule | AJ65BT-D62D | Differential input Preset DC input | _ |
| | | | AJ65BT-D62D-S1 | Differential input Preset differential input | IP2X |
| Positioning | | | AJ65BT-D75P2-S3 | 2 axes (independent, with/ linear and circular interpolation) | IP2X |
| HS-232 Int | terface modu | ie | AJ65BT-R2N | RS-232 1-channel, with/ DC input 2 points Transistor output 2 points | IP2X |
| | | | Q80BD-J61BT11N | CC-Link interface board for an IBM PC/AT compatible PC | - |
| Interface b | | | | (for PCI bus slot: master station, standby master station or local station) | |
| for persona | al computer | | Q81BD-J61BT11 | CC-Link interface board for an IBM PC/AT compatible PC | _ |
| | | | | (for PCI Express bus slot: master station, standby master station or local station) | |
| FX Series | interface bloc | ck | FX3U-64CCL | Interface block for FX3g, FX3u, FX3uc Series | - |
| | T | | FX2N-32CCL | Interface block for FX1N, FX2N, FX3U, FX1NC, FX2NC, FX3UC Series | - |
| | Thin, water | | AJ65FBTA-RPH | 8-port star wiring hub module with repeater function, IP67-compatible | IP67 |
| | repeater hu | | | - F | |
| | | terminal block type | AJ65BTS-RPH | 8-port star wiring hub module with repeater function, Spring clamp terminal block type | IP2X |
| Repeater | repeater hub | | | | |
| module | Repeater m | nodule (T-branch) | AJ65SBT-RPT | T-branch module with repeater function | IP2X |
| | Ontical ren | eater module | AJ65SBT-RPS | For SI/QSI type fiber cable (Use 2 modules as a set) | IP2X |
| | Optical rep | cater module | AJ65SBT-RPG | For GI type fiber cable (Use 2 modules as a set) | IP2X |
| | | cal repeater | AJ65BT-RPI-10A | AJ65BT-RPI-10A and AJ65BT-RPI-10B used as a pair, 156k/625k/2.5Mbps supported | IP2X |
| | module | | AJ65BT-RPI-10B | | IP2X |
| | | | AJ65MBTL1N-16D | Input 16 points : 24VDC (positive common) Pin header type 44-pin (2 rows) Embedded type Response time 1.5ms | - |
| | | | AJ65MBTL1N-16T | Output 16 points: 12/24VDC (0.1A) Transistor output (sink type) | |
| | | | AJOSIVID I L IIV-10 I | Pin header type 44-pin (2 rows) Embedded type | _ |
| | | alo dia | A JOSE ADTI AND ADDT | Input 8 points : 24VDC (positive common) Response time 1.5ms | |
| Embedded | d type I/O mo | aule | AJ65MBTL1N-16DT | Output 8 points: 24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type | - |
| | | | AJ65MBTL1N-32D | Input 32 points: 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms | - |
| | | | | Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) | |
| | | | AJ65MBTL1N-32T | Pin head type 62-pin (2 rows) Embedded type | - |
| Embedded | d type interfac | ce board | Q50BD-CCV2 | Master/local/intelligent device station CC-Link Ver.2 compatible | - |
| | | | A6GA-CCMFP1NN60F | Communication LSI for lead-free/RoHS compatible master/local/intelligent device station (60pcs) | - |
| Object dev | velopment | MFP1N | A6GA-CCMFP1NN300F | Communication LSI for lead-free/RoHS compatible master/local/intelligent device station (300pcs) | - |
| | · - | Device kit | Q6KT-NPC2OG51 | For network circuit (Flash ROM x 1pc, SPLD x 2pcs) | - |
| 02,000 000 | | DOVIDO KIL | A6GA-CCMFP2ANN 60F | Communication LSI for lead-free/RoHS compatible remote I/O station (16 points) (60pcs) | |
| | | MFP2AN | A6GA-CCMFP2ANN 300F | Communication LSI for lead-free/RoHS compatible remote I/O station (16 points) (300pcs) | - |
| | | | AUGUA-OUIVII FZAININ JUUF | , , , , , , , | - |
| <u> </u> | _ | | AGGA COMEDONIAL GOT | Communication I SI for load free/PoHS compatible remote I/O station (22 points) (60pcs) | |
| Dedicated | <u> </u> | MFP2N | A6GA-CCMFP2NN 60F | Communication LSI for lead-free/RoHS compatible remote I/O station (32 points) (60pcs) | - |
| Dedicated | <u> </u> | MFP2N | A6GA-CCMFP2NN 300F | Communication LSI for lead-free/RoHS compatible remote I/O station (32 points) (300pcs) | - |
| Dedicated | eation LSI | MFP2N MFP3N | | | |

 $^{^{\}star}$ Positive common: sink type, negative common: source type

Mitsubishi Electric Engineering Corporation

| Туре | Model | Specifications | Protection level |
|---------------------------------------|-----------|--|---------------------|
| CompactPCI compatible interface board | ECP-CL2BD | CC-Link interface board for FA computer (CompactPCI bus slot 3U size: master station, standby master station or local station) | - |

Optional parts for I/O modules

■ One-touch connector plugs

| Туре | Model | Specifications |
|-----------------------------------|-----------------------|---|
| | A6CON-P214 | Core wire size of applicable cable: 0.14 to 0.2mm ² , 26~24 AWG |
| | AbCON-P214 | Outer diameter of applicable cable: ϕ 1.0 to 1.4mm, Maximum rated current: $2A^{*3}$ |
| | ACCON DOOR | Core wire size of applicable cable: 0.14 to 0.2mm², 26~24 AWG |
| One-touch connector plug | A6CON-P220 | Outer diameter of applicable cable: ϕ 1.4 to 2.0mm, Maximum rated current: $2A^{*3}$ |
| (20pcs) | 4000NLD544 | Core wire size of applicable cable: 0.3 to 0.5mm², 22-20 AWG |
| | A6CON-P514 | Outer diameter of applicable cable: ϕ 1.0 to 1.4mm, Maximum rated current: $3A^{*3}$ |
| | 4000N B500 | Core wire size of applicable cable: 0.3 to 0.5mm², 22-20 AWG |
| | A6CON-P520 | Outer diameter of applicable cable: ϕ 1.4 to 2.0mm, Maximum rated current: $3A^{*3}$ |
| One-touch connector plug | A6CON-L5P | Communication line: 0.5mm², 20 AWG, Shielded cable:0.5mm², 20 AWG |
| for communication (10pcs) | (35505-6000-B0M GF*2) | Applicable cable size (diameter): φ2.2~3.0mm |
| | A6CON-PW5P | Core wire size of applicable cable: 0.75mm² (0.66 to 0.98mm²), 18 AWG, 0.16mm or larger for strand diameter, Insulating coating |
| One-touch connector plug | (35505-6080-A00 GF*2) | material PVC (heat resistant vinyl), Outer diameter of applicable cable: φ2.2 to 3.0mm, Maximum rated current: 7A*3 |
| for power supply and FG (10pcs) | A6CON-PW5P-SOD | Core wire size of applicable cable: 0.75mm² (0.66 to 0.98mm²), 18 AWG, 0.16mm or larger for strand diameter, Insulating coating |
| | (35505-6180-A00 GF*2) | material PVC (heat resistant vinyl), Outer diameter of applicable cable: \$\phi 2.0\$ to 2.3mm, Maximum rated current: 7A*3 |
| One-touch connector plug | A6CON-TR11 | One-touch connector plug for communication with terminating resistor (110 Ω) |
| with terminating resistor (1pc)*1 | A6CON-TR11N | One-touch connector plug for communication with terminating resistor (110Ω) (built-in type) |

^{*1:} When the connector type remote I/O is used for the end station, be sure to use this.
*2: Part model name (manufactured by 3M)
*3: Keep the current within the allowable of the connected cable.

■ Online connector

| | | | |
|----------------------------|-----------------------|--|--|
| Туре | Model | Specifications | |
| Online connector for | A6CON-LJ5P | Online connector for communication Finals (10 pin) | |
| communication (5pcs) | (35720-L200-B00 AK*4) | Online connector for communication, 5-pole (10-pin) | |
| Online connector for power | A6CON-PWJ5P | Online connector for paying symply. FC F pale (40 pin) | |
| supply and FG (5pcs) | (35720-L200-A00 AK*4) | Online connector for power supply, FG 5-pole (10-pin) | |

^{*4:} Part model name (manufactured by 3M)

■ Protective cover for remote I/O module

| Туре | Model | Applicable module |
|--------------------------------------|-------------|---|
| Protective cover | A6CVR-8 | AJ65SBTB1-8D, AJ65SBTB1-8T, AJ65SBTB1-8TE, AJ65SBT-RPT, AJ65SBTB1-8T1 |
| for 8-point module (10pcs) | A6CVR-VCE8 | AJ65VBTCE3-8D, AJ65VBTCE2-8T |
| | | AJ65SBTB1-16D, AJ65SBTB1-16D1, AJ65SBTC1-32D, AJ65SBTC1-32D1, AJ65SBTB3-8D, AJ65SBTB2-8A, AJ65SBTB2N-8A, |
| | | AJ65SBTB1-16T, AJ65SBTB1-16T1, AJ65SBTC1-32T, AJ65SBTB2-8T, AJ65SBTB1-16TE, AJ65SBTB2-8R, AJ65SBTB2N-8R, |
| Protective cover for | A6CVR-16 | AJ65SBTB2-8S, AJ65SBTB2N-8S, AJ65SBTC1-32DT, AJ65SBTC1-32DT1, AJ65SBTC4-16D, AJ65SBTC4-16DT, |
| 16-point module | | AJ65SBTB1-16DT, AJ65SBTB1-16DT1, AJ65SBTB32-8DT, AJ65SBT-RPG, AJ65SBT-RPS, AJ65SBTC4-16DN, |
| (10pcs) | | AJ65SBTC4-16DE, AJ65SBTB2-8T1, AJ65SBTB1-16DT2, AJ65SBTC1-32DT2, AJ65SBTC1-32DT3, AJ65SBTC4-16DT2, |
| | | AJ65SBTB1-16DT3, AJ65SBTB32-8DT2 |
| | A6CVR-VCE16 | AJ65VBTCE3-16D, AJ65VBTCE2-16T, AJ65VBTCE32-16DT, AJ65VBTCE3-16DE, AJ65VBTCE3-16TE, AJ65VBTCE3-16DTE |
| Protective cover for 32-point module | | AJ65SBTB1-32D, AJ65SBTB1-32D1, AJ65SBTB3-16D, AJ65SBTB2-16A, AJ65SBTB2N-16A, AJ65SBTB1-32T, AJ65SBTB1-32T1, |
| | A6CVR-32 | AJ65SBTB2-16T, AJ65SBTB2N-16R, AJ65SBTB2-16S, AJ65SBTB2N-16S, AJ65SBTB1-32DT, AJ65SBTB1-32DT1, AJ65SBTB32-16DT, |
| (10pcs) | | AJ65SBTB2N-16R, AJ65SBTB2-16T1, AJ65SBTB1-32DT3, AJ65SBTB32-16DT2, AJ65SBTB1-32DT2 |

■ Protective cap for unused connector

| Type | Model | Specifications |
|------------------------|-----------|---|
| Waterproof cap (20pcs) | A6CAP-WP2 | For protective cover for unused connector, waterproof protective structure: IP67-compatible, applicable for AJ65FBTA - I/O module |

■ 40-pin connector (FCN connector)

| Туре | Model | Specifications |
|------------------|--------|--|
| 40-pin connector | A6CON1 | Solder type (straight-out type) |
| (FCN connector) | A6CON2 | Crimp type (straight-out type) |
| , | A6CON3 | IDC type (flat cable type) |
| (1pc) | A6CON4 | Solder type (straight-out/diagonal-out type) |



CC-Link Safety Related Product Model Names

Mitsubishi Electric Corporation

| | Type | Model | Specifications | |
|---------------|-----------------------|-----------------|---|------|
| | Туре | Wodel | | |
| Master module | • | QS0J61BT12 | Maximum number of stations: 64 stations (maximum of 42 safety stations) Safety station information management | IP2X |
| | Screw/2-piece | QS0J65BTB2-12DT | Safety input: 8 points (dual input), 16 points (single input) | IP2X |
| Remote I/O | terminal block type | Q50000B1B2-12D1 | Safety output: 4 points (source + sink type), 2 points (source + source type) | IP2X |
| module | Spring clamp terminal | QS0J65BTS2-8D | Safety input: 8 points (dual input), 16 points (single input) | IP2X |
| | block type | QS0J65BTS2-4T | Safety output: 4 points (source + sink type), 2 points (source + source type) | IP2X |

CC-Link/LT Related Product Model Names

Mitsubishi Electric Corporation

| Туре | | | Model | Specifications | Protection level |
|---------------------------|----------------------------------|------------------------|--|---|---------------------|
| | | | QJ61CL12 | CC-Link/LT master module for Q Series | - |
| Manatanananahata | | LJ61CL12 | CC-Link/LT master module for L Series | - | |
| Master module | | | FX2N-64CL-M | CC-Link/LT master module for FX1N, FX2N, FX3N, FX1NC, FX2NC, and FX3NUC | - |
| | | | FX3UC-32MT-LT (-2)*1 | FX ₃ uc series CC-Link/LT programmable controller (built-in master function) | - |
| Bridge module | | | AJ65SBT-CLB | CC-Link - CC-Link/LT bridge module | IP2X |
| , | | | CL1X4-D1B2 | Input 4 points: 24VDC (positive/negative common shared) | IP2X |
| | | | CL2X8-D1B2 | Input 8 points: 24VDC (positive/negative common shared) | IP2X |
| | | | CL1Y4-T1B2 | Output 4 points: 12/24VDC (sink type) 0.1A Transistor output | IP2X |
| | | | CL2Y8-TP1B2 | Output 8 points: 12/24VDC (sink type) 0.1A Transistor module (with output protection function) | IP2X |
| | | | CL1Y4-R1B2 | Output 4 points: 30VDC , 250VAC or less 2A Relay output | IP1X |
| | | | CL1Y4-R1B1 | Output 4 points: 30VDC , 250VAC or less 2A Relay output 1 point 1 common (independent) | IP1X |
| | | | OLIT4-NIDI | Input 2 points: 24VDC (positive/negative common shared) | 11 17 |
| | Screw termin | nal block type | CL1XY4-DT1B2 | Output 2 points: 12/24VDC (sink type) 0.1A Transistor output | IP2X |
| | | | | | |
| | | | CL1XY8-DT1B2 | Input 4 points: 24VDC (positive/negative common shared) | IP2X |
| | | | | Output 4 points: 12/24VDC (sink type) 0.1A Transistor output | |
| | | | CL1XY4-DR1B2 | Input 2 points: 24VDC (positive/negative common shared) | IP1X |
| | | | | Output 2 points: 30VDC , 250VAC or less (sink type) 2A Relay output | |
| | | | CL1XY8-DR1B2 | Input 4 points: 24VDC (positive/negative common shared) | IP1X |
| | | | OLIXIO BITIBL | Output 4 points: 30VDC , 250VAC or less 2A Relay output | |
| | | | CL1X4-D1S2 | Input 4 points: 24VDC (positive/negative common shared) | IP2X |
| | Caring alam | torminal | CL2X8-D1S2 | Input 8 points: 24VDC (positive/negative common shared) | IP2X |
| | Spring clam | reminal | CL1Y4-T1S2 | Output 4 points: 12/24VDC (sink type) 0.1A Transistor output | IP2X |
| | block type | | CL2Y8-TP1S2 | Output 8 points: 12/24VDC (sink type) 0.1A Transistor output (output protection function) | IP2X |
| | | | CL2Y8-TPE1S2 | Output 8 points: 12/24VDC (source type) 0.1A Transistor output (output protection function) | IP2X |
| Remote I/O | | | CL1X4-D1C3 | Input 4 points: 24VDC (positive common) | IP2X |
| module | | | CL2X8-D1C3V | Input 8 points: 24VDC (positive common) | IP2X |
| | | | CL2X16-D1C3V | Input 16 points: 24VDC (positive common) | IP2X |
| | Sensor conn | ector type | CL1Y4-T1C2 | Output 4 points: 24VDC (sink type) 0.1A Transistor output | IP2X |
| | Sensor connector type (e-CON) | | CL2Y8-TP1C2V | Output 8 points: 24VDC (sink type) 0.1A Transistor module (output protection function) | IP2X |
| | | | CL2Y16-TP1C2V | Output 16 points: 24VDC (sink type) 0.1A Transistor module (output protection function) | IP2X |
| | | | CL2110-1F1C2V | Input 8 points: 24VDC (sink type) 6.1A transistor module (output protection function) | II ZX |
| | | | CL2XY16-DTP1C5V | | IP2X |
| | | | OLOVAO DANAV | Output 8 points: 24VDC (sink type) 0.1A Transistor module (output protection function) | IDOV |
| | | | CL2X16-D1M1V | Input 16 points: 24VDC (positive common) | IP2X |
| | | | CL2X16-D1MJ1V | Input 16 points: 24VDC (positive common) | IP2X |
| | | | | Shared power supply for module and I/O parts | |
| | MIL connect | or type | CL2Y16-TP1M1V | Output 16 points: 12/24VDC (sink type) 0.1A Transistor module (output protection function) | IP2X |
| | | | CL2Y16-TP1MJ1V | Output 16 points: 24VDC (sink type) 0.1A Transistor module (output protection function) | IP2X |
| | | | 02211011111011 | Shared power supply for module and I/O parts | |
| | | | CL2Y16-TPE1M1V | Output 16 points: 12/24VDC (source type) 0.1A Transistor module (output protection function) | IP2X |
| | | | CL1X2-D1D3S | Input 2 points: 24VDC (positive common) | IP2X |
| | Cable type | | CL1Y2-T1D2S | Output 2 points: 24VDC (sink type) 0.1A Transistor output | IP2X |
| | Cable type | | CL1XY2-DT1D5S | Input 1 points: 24VDC (positive common) | IP2X |
| | | | CLIX12-DI IDSS | Output 1 points: 24VDC (sink type) 0.1A Transistor output | IFZA |
| A mala mandula | Screw terminal | Voltage/current input | CL2AD4-B | 4-channel voltage/current input A/D conversion module (analog input module) | IP2X |
| Analog module | block type | Voltage/current output | CL2DA2-B | 2-channel voltage/current output D/A conversion module (analog output module) | IP2X |
| Dedicated power | supply | | CL1PSU-2A | CC-Link/LT dedicated power supply (2A) | IP1X |
| Power supply adapter | | CL1PAD1 | Power supply adapter (5A) for CL1PAD1 CC-Link/LT | - | |
| Communication LSI | | | | | |
| for master station | CLC13 | | CL2GA13-60 | Communication LSI for lead-free/RoHS compatible master station (60pcs) | - |
| Communication LSI | _SI CLC21 | | CL2GA21-60 | Communication LSI for lead-free/RoHS compatible remote I/O station (60pcs) | _ |
| for remote I/O station | | | CL2GA21-80 CL2GA21-300 | Communication LSI for lead-free/RoHS compatible remote I/O station (60pcs) | - |
| Communication LSI | | | OLZGMZ 1-300 | Communication Lorior lead-nee/nono compatible remote I/O station (300pcs) | - - |
| for remote device station | CLC31 | | CL2GA31-60 | Communication LSI for remote device station (60pcs) | - |
| ioi remote device station | | | OLOTE 5 | | 1 |
| | Common ter | minal block | CL2TE-5 | Common terminal block for screw terminal block type modules (applicable model: CL2X8-D1B2, CL2Y8-TP1B2, CL2AD4-B) | - |
| Accessories | | | CL2TE-10S | Common terminal block for spring clamp terminal block type modules (applicable model : CL2X8-D1S2) | - |
| | Holder | | CL1-HLD | Holder for cable type mounting (5pcs) | - |

 $^{^{\}star}1~\text{CC-Link/LT parameters for FX} \text{3}\text{uc-32MT-LT-2 can be configured with GX Works2, GX Developer or display modules}.$

Mitsubishi Electric System & Service Co.,Ltd.

| | Туре | | Specifications | Protection |
|-------------|-------------------------------|---------------------------------|---|------------|
| | | | | level |
| | | CL9-CNF-18 | Connector for CC-Link/LT dedicated flat cable | - |
| | Connector | CL9-CNR-23 | Connector for CC-Link/LT dedicated VCTF cable | - |
| | | CL9-CNR-20 | Connector for CC-Link/LT dedicated flexible cable | - |
| | Cable | CL9-FL4-18 | CC-Link/LT dedicated flat cable | - |
| | Cable | CL9-MV4-075 | CC-Link/LT dedicated flexible cable | - |
| | Terminating resistor | CL9-TERM | Terminating resistor for dedicated flat, VCTF, and flexible cables | - |
| Accessories | Open sensor connector (e-CON) | ECN-***** | I/O connector for sensor connector type modules | |
| | | ECIN- | *: The model name differs according to the color and wire diameter. | - |
| | laint ahiald/Duat ahiald | shield/Dust shield ECN-CVR4**** | Protection shields for relay part of open sensor connectors, sensor connectors, | - |
| | Joint Snield/Dust Snield | | and empty slots of remote I/O module | |
| | | L-TOOL-N | IDC tool for connector | - |
| | Tool | e-TOOL-N | IDC tool for open sensor connector | - |
| | | KD-5339 | Tool for spring clamp terminal block | - |



| Memo | |
|------|--|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

| Memo | |
|------|--|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and other countries. Ethernet is a registered trademark of Xerox Corporation in the United States.

All other company names and product names in this document are the trademarks or registered trademarks of the respective company.







Mitsubishi Electric Corporation Nagoya Works is a factory certified for ISO14001 (standards for environmental management systems) and ISO9001 (standards for quality assurance management systems)





Open Field Network CC-Link Compatible Product Catalog

Precautions before use

This publication explains the typical features and functions of the products herein and does not provide restrictions and other information related to usage and module combinations. Before using the products, always read the product user manuals. Mitsubishi Electric will not be held liable for damage caused by factors found not to be the cause of Mitsubishi Electric; opportunity loss or lost profits caused by faults in Mitsubishi Electric products; damage, secondary damage, or accident compensation, whether foreseeable or not, caused by special factors; damage to products other than Mitsubishi Electric products; and to other duties.



For safe use

- \bullet To use the products given in this publication properly, always read the relevant manuals before use.
- The products have been manufactured as general-purpose parts for general industries, and have not been designed or manufactured to be incorporated in a device or system used in purposes related to human life.
- · Before using the products for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi.
- The products have been manufactured under strict quality control. However, when installing the products where major accidents or losses could occur if the products fail, install appropriate backup or fail-safe functions in the system.

| | - · · · · | |
|-----------------------|---|--|
| Country/Region USA | Mitsubishi Electric Automation Inc. 500 Corporate Woods Parkway, Vernon Hills, IL 60061, USA | Tel/Fax Tel: +1-847-478-2100 Fax: +1-847-478-2253 |
| Mexico | Mitsubishi Electric Automation Inc. Mexico Branch Mariano Escobedo #69, Col.Zona Industrial, Tlalnepantla Edo, C.P.54030, México | Tel: +52-55-9171-7600 Fax: +52-55-9171-7649 |
| Brazil | Mitsubishi Electric do Brasil Comércio e Serviços Ltda. Rua Jussara, 1750- Bloco B Anexo, Jardim Santa Cecilia, CEP 06465-070, Barueri, San Paulo, Brazil | Tel: +55-11-4689-3000 Fax: +55-11-4689-3016 |
| Germany | Mitsubishi Electric Europe B.V. German Branch Gothaer Strasse 8, D-40880 Ratingen, Germany | Tel: +49-2102-486-0 Fax: +49-2102-486-1120 |
| UK | Mitsubishi Electric Europe B.V. UK Branch Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, U.K. | Tel: +44-1707-28-8780 Fax: +44-1707-27-8695 |
| Italy | Mitsubishi Electric Europe B.V. Italian Branch Centro Direzionale Colleoni - Palazzo Sirio Viale Colleoni 7, 20864 Agrate Brianza(Milano) Italy | Tel: +39-039-60531 Fax: +39-039-6053-312 |
| Spain | Mitsubishi Electric Europe B.V. Spanish Branch Carretera de Rubí 76-80-AC.420, E-08190 Sant Cugat del Vallés (Barcelona), Spain | Tel : +34-93-565-3131 Fax : +34-93-589-1579 |
| France | Mitsubishi Electric Europe B.V. French Branch 25, Boulevard des Bouvets, F-92741 Nanterre Cedex, France | Tel : +33-1-5568-5568 Fax : +33-1-5568-5757 |
| Czech Republic | Mitsubishi Electric Europe B.V. Czech Branch Avenir Business Park, Radicka 751/113e, 158 00 Praha5, Czech Republic | Tel: +420-251-551-470 Fax: +420-251-551-471 |
| Poland | Mitsubishi Electric Europe B.V. Polish Branch 32-083 Balice ul. Krakowska 50, Poland | Tel: +48-12-630-47-00 Fax: +48-12-630-47-01 |
| Russia | Mitsubishi Electric Europe B.V. Russian Branch St. Petersburg office Piskarevsky pr. 2, bld 2, lit "Sch", BC "Benua", office 720; 195027, St. Petersburg, Russia | Tel : +7-812-633-3497 Fax : +7-812-633-3499 |
| Turkey | Mitsubishi Electric Turkey A.Ş Ümraniye Branch Serifali Mahallesi Nutuk Sokak No:5 TR-34775 Umraniye, Istanbul, Turkey | Tel: +90-216-526-3990 Fax: +90-216-526-3995 |
| South Africa | CBI-Electric. Private Bag 2016, ZA-1600 Isando, South Africa | Tel: +27-11-977-0770 Fax: +27-11-977-0761 |
| China | Mitsubishi Electric Automation (China) Ltd. No.1386 Hongqiao Road, Mitsubishi Electric Automation Center, Changning District, Shanghai, China | Tel: +86-21-2322-3030 Fax: +86-21-2322-3000 |
| Taiwan | Setsuyo Enterprise Co., Ltd. 6F., No.105, Wugong 3rd Road, Wugu District, New Taipei City 24889, Taiwan, R.O.C. | Tel: +886-2-2299-2499 Fax: +886-2-2299-2509 |
| Korea | Mitsubishi Electric Automation Korea Co., Ltd. 1480-6, Gayang-Dong, Gangseo-Gu, Seoul, 157-200, Korea | Tel: +82-2-3660-9530 Fax: +82-2-3664-8372 |
| Singapore | Mitsubishi Electric Asia Pte. Ltd. 307, Alexandra Road, Mitsubishi Electric Building, Singapore, 159943 | Tel: +65-6470-2308 Fax: +65-6476-7439 |
| Thailand | Mitsubishi Electric Factory Automation (Thailand) Co., Ltd. 12th Floor, SV.City Building, Office Tower 1, No. 896/19 and 20 Rama 3 Road, Kwaeng Bangpongpang, Khet Yannawa, Bangkok 10120, Thailand | Tel : +66-2682-6522 Fax : +66-2682-6020 |
| Vietnam | Mitsubishi Electric Vietnam Company Limited Hanoi Branch Suite 9-05, 9th Floor, Hanoi Central Office Building 44B Ly Thuong Kiet District, Hanoi City, Vietnam | Tel: +84-4-3937-8075 Fax: +84-4-3937-8076 |
| Indonesia | PT. Mitsubishi Electric Indonesia Gedung Jaya 11th Floor, JL. MH. Thamrin No.12, Jakarta Pusat 10340, Indonesia | Tel: +62-21-3192-6461 Fax: +62-21-3192-3942 |
| India | Mitsubishi Electric India Pvt. Ltd. Emerald House, EL-3, J Block, M.I.D.C., Bhosari, Pune, 411026, Maharashtra State, India | Tel : +91-20-2710-2000 Fax : +91-20-2710-2100 |
| Australia | Mitsubishi Electric Australia Pty. Ltd. 348 Victoria Road, P.O. Box 11, Rydalmere, N.S.W 2116, Australia | Tel: +61-2-9684-7777 Fax: +61-2-9684-7245 |

MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BUILDING, 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN NAGOYA WORKS: 1-14, YADA-MINAMI 5, HIGASHI-KU, NAGOYA, JAPAN