

Open Field Network CC-Link Compatible Product Catalog

e-F@ctory





GLOBAL IMPACT OF MITSUBISHI ELECTRIC







Through Mitsubishi Electric's vision, "Changes for the Better" are possible for a brighter future.

Changes for the Better

"Changes for the Better" represents the Mitsubishi Electric Group's attitude to "always strive to achieve something better", as we continue to change and grow. Each one of us shares a strong will and passion to continuously aim for change, reinforcing our commitment to creating "an even better tomorrow".

Mitsubishi Electric is involved in many areas including the following:

Energy and Electric Systems

A wide range of power and electrical products from generators to large-scale displays.

Electronic Devices

A wide portfolio of cutting-edge semiconductor devices for systems and products.

Home Appliance

Dependable consumer products like air conditioners and home entertainment systems.

Information and Communication Systems

Commercial and consumer-centric equipment, products and systems.

Industrial Automation Systems

Maximizing productivity and efficiency with cutting-edge automation technology.



Our advances in Al and IoT are



Strategic Network, CC-Link & CC-Link Safety

Strong Manufacturers

Stay One Step Ahead of Others with

CC-Link & CC-Link Safety



Connect with reliable networks for powerful factory automation

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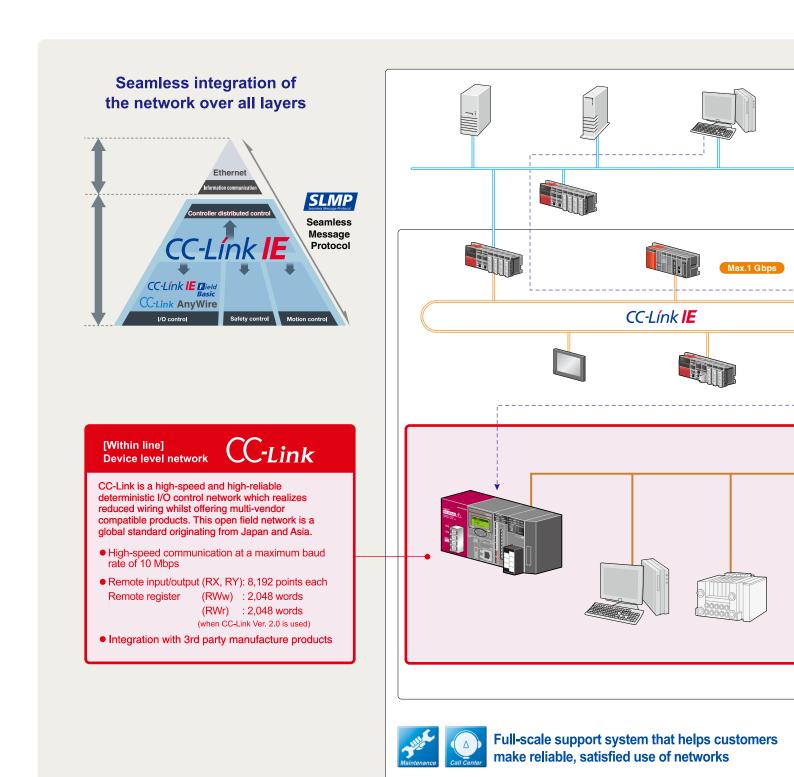
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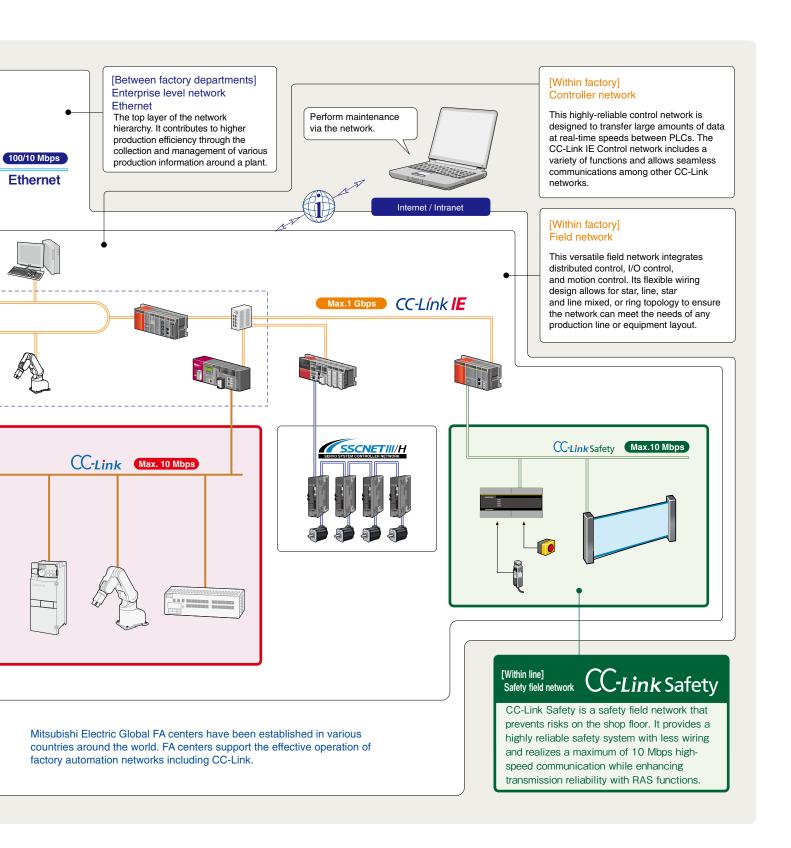
Support — Product List —

Shaping the future of factory automation networks with the

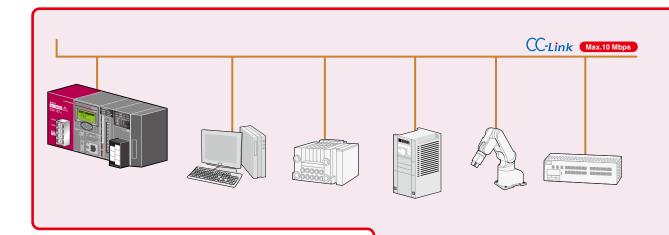
We provide total support in creating seamless networks in all scenes, from offices to production sites, under a consistent design philosophy. With flexible approaches backed by "Ethernet," "MELSECNET/H" and "CC-Link", a SEMI-certified, world standard field network originated in Japan, we propose a network-based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



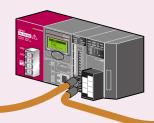
seamless connectivity



CC-Link - As the world standard network

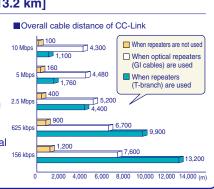


	CC-Link
Control methods	I/O control + intelligent distribution
Cable	Dedicated fixed cable, dedicated flexible cable, built-in power cable
Maximum number of link points	RX, RY: 8192 points each, RWr: 2048 words, RWw: 2048 words (Ver2.0)
I/O module lineup	Screw terminal block, spring terminal block, e-CON, push-in connector, waterproof connector, 40-pin connector
Max. cable distance	1200 m (at 156 kbps) Extendable up to 13.2 km when repeater is used
Parameter setup	GX Works3, GX Works2, GX Developer
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>
Network topology	Bus topology T-branch topology Star topology



Large-scale applications from Factory Automation through building management [Max. cable length of 13.2 km]

The total distance covered by the CC-Link network can be increased up to 1.2 km (at 156 kbps). Additionally, the transmission distance can be further extended through the use of T-branch repeater modules. Optical repeaters can also be used so that CC-Link deal with various large-scale facilities.



For improved setup efficiency [Simple parameter setup]

CC-Link settings can be made using the MELSOFT engineering software GX Works3, GX Works2, or GX Developer.

The engineering software is also useful in reducing the program size while improving efficiency.



GX Works3

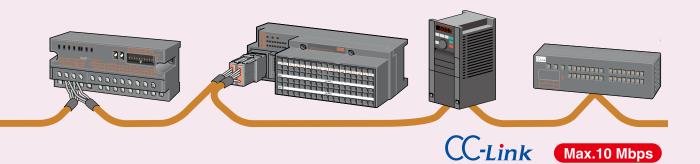
For achieving complex control, high-mix low-volume production

[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 1300 types of products are supplied from more than 2000 companies worldwide.

For non-stop operation [RAS functions]

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



For improved network reliability

[Consistent network communication time]

CC-Link guarantees the fixed cyclic transmission

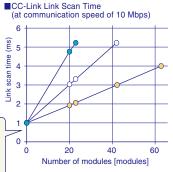
■CC-Link Link Scan Time (at communication speed of 10

time and the 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)



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



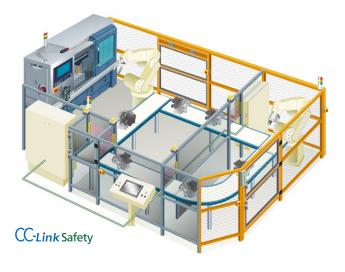




Enclosing hazards in a safety guard is not good enough. Also, worker mistakes and machine failures are unpredictable. That is why configuring a system with a "safety solution" which always prevents accidents is necessary.



Safety solution example



Worldwide safety

[International safety standards compliant]

Conforms to the international safety standards IEC 61508 SIL3 and EN 954-1/ISO 13849-1 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 loss 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]

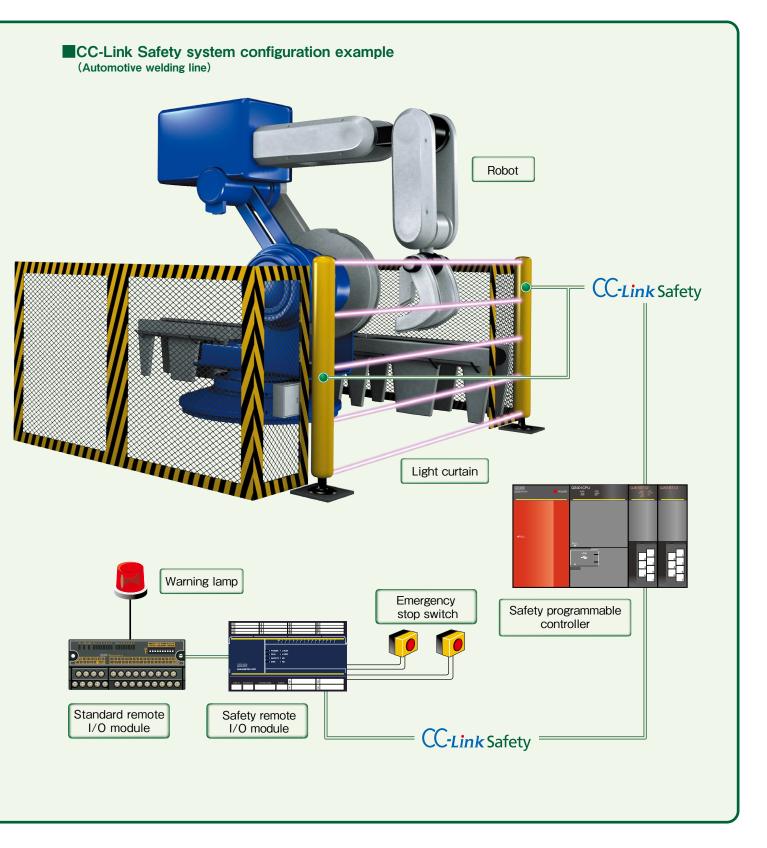
By setting the model name or product information of safety remote stations with the network parameters, the system can detect mismatch communication targets.

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]

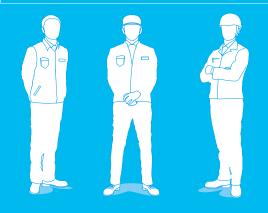
Mitsubishi Electric and many other CLPA partners provide a variety of compatible products including a programmable controller, light curtains, and warning lamps. Moreover, the same CC-Link cables and standard CC-Link stations can be used.



For those in design, production and maintenance

CC-Link provides solutions

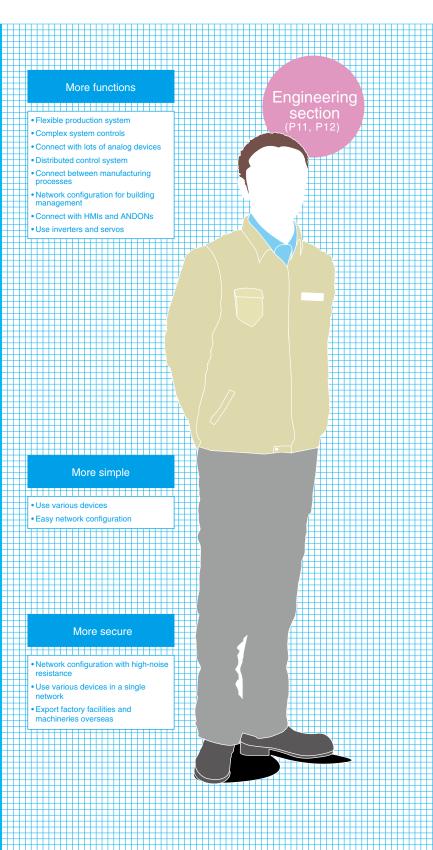
CC-Link provides solutions for each subject in the field.

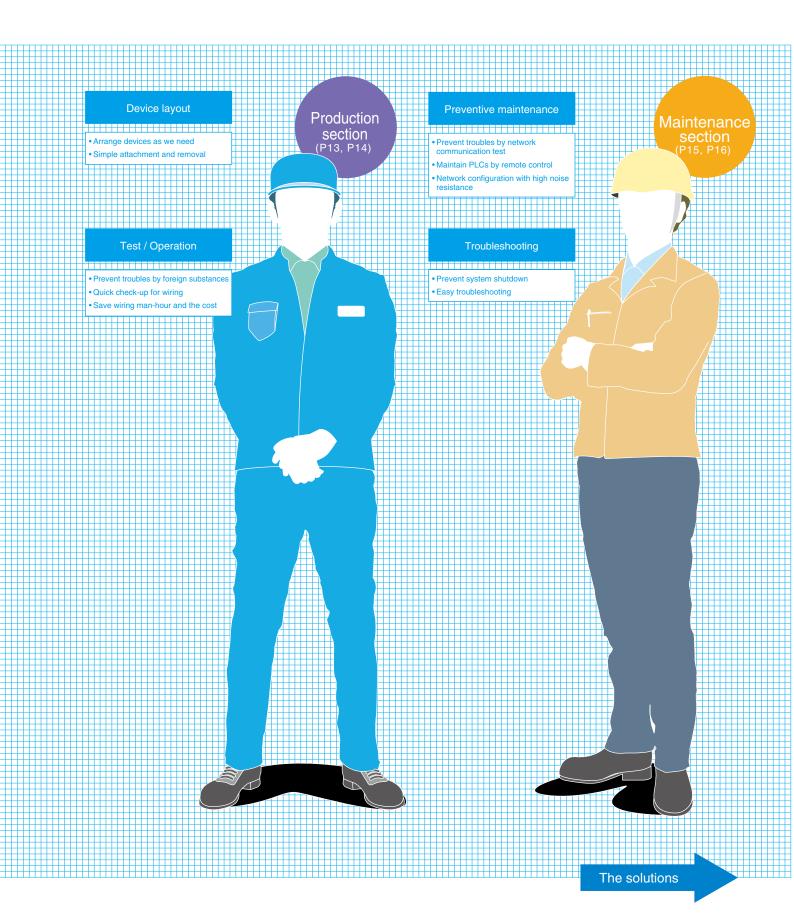


Each person in charge of engineering, production and maintenance has his/her own subjects.

CC-Link responds to each subject with a solution. CC-Link is an established open field network originated from Japan.

CC-Link provides a function for each subject on the network.







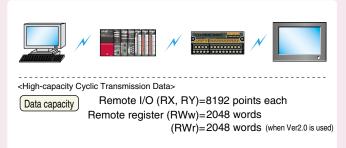
CC-Link supports the facility improvement

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

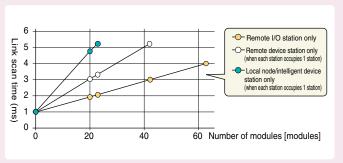


Complex system controls

CC-Link guarantees 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)

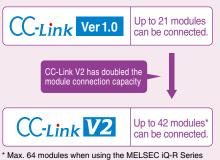


Connect with lots of analog devices

► CC-Link 1/2 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 Ver.2.0-compatible analog module



* Max. 64 modules when using the MELSEC iQ-R Series (RJ61BT11)'s remote device net Ver.1 mode or the remote device net Ver.2 mode.



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



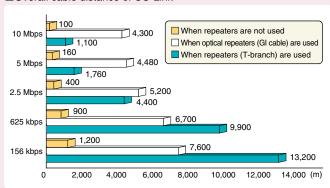


- Connect between manufacturing processes
- Network configuration for building management
- ► The total extended distance of the CC-Link cable is 1,200 m, and can be extended up to 13.2 km when repeaters are used.

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 **V2** can control up to 8192 points and 4096 words.

CC-Link Ver.2.0 can transmit and receive data approx. 8 times larger than the earlier Ver.1.10/Ver.1.00.

■Comparison of communication data

CC-Link Ver 1.0	Remote I/O
CC-Link V2	Remote I/O(RX, RY) = 8192 points each Remote register(RWw) = 2048 words (RWr) = 2048 words

Connect with HMIs and ANDONs

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

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

Easy network configuration

► CC-Link parameters are easily set with the engineering software.

The total programming tool "GX Works3", "GX Works2", and "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



Also supports ...

Using various devices in a single network

► Diverse range of products supplied from many partner manufacturers.

Exporting factory facilities and machineries overseas

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

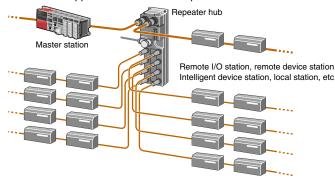


CC-Link provides various useful functions

Device layout as we need

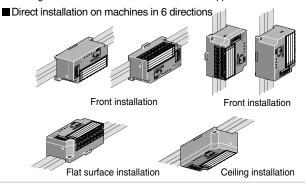
▶ CC-Link allows flexible installation.

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.



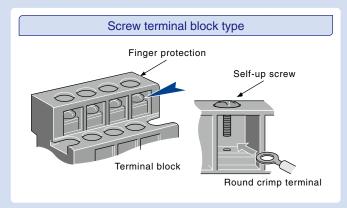
► CC-Link family remote I/O modules occupy a small footprint.

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

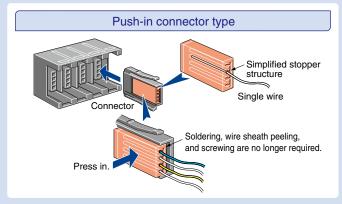
* The specifications depend upon a product.

Spring clamp terminal block type

Spring clamps allow quick and easy connectivity.

Sensor connector (e-CON) type Open sensor connector (e-CON) To sensor, valve

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



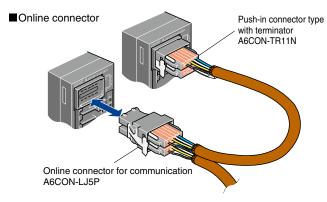
This connector adopts a lock mechanism that is easy to lock and unlock. You can connect single wires by simply pushing in the connector.



Simple attachment and removal

►CC-Link family products allow 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.

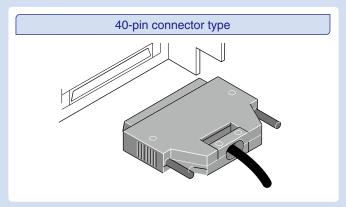
The protective cover can be easily attached and removed. The transparent material allows you to check the LEDs and wiring conditions.

Quick checkup and startup

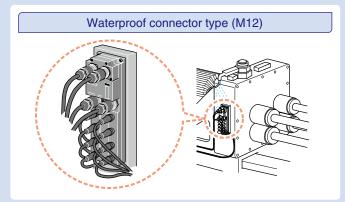
► CC-Link ensures easy setup and startup.

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.



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.



CC-Link supports the maintenance work

Preventive maintenance

Prevent troubles by network communication test

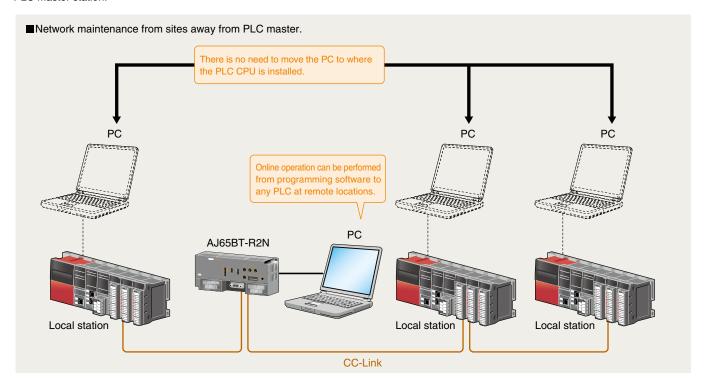
► CC-Link family products provides one-step-ahead preventive maintenance.

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.

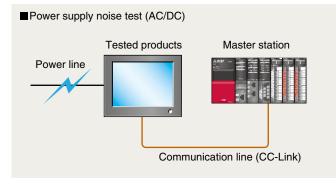
By using the RS-232 interface module (AJ65BT-R2N) into the CC-Link system, it is possible to do network maintenance from sites away from PLC master station.

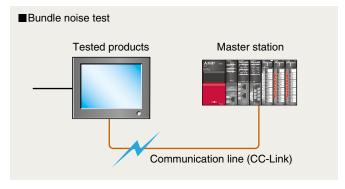


Network configuration with high noise resistance

▶ 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

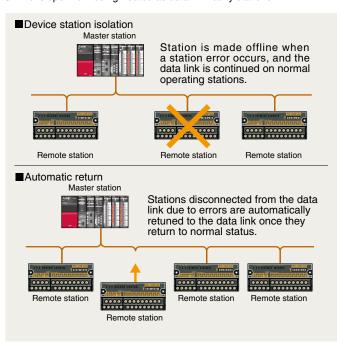
Prevent system shutdown

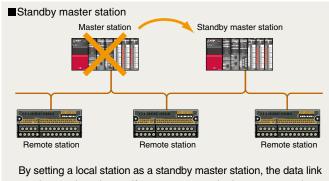
► CC-Link provides enhanced RAS functions.

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

<Error invalid station setting>

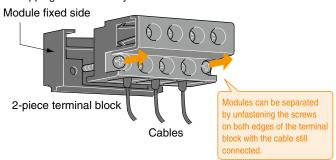
In the online mode, this setting temporarily prevents modules specified on GX Developer from being treated as data link faulty stations.





can be continued even if an error occurs in the master station.

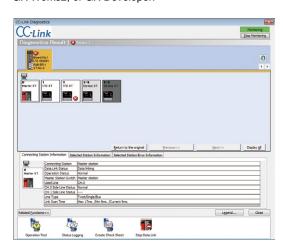
■The "2-piece terminal block" allows modules to be replaced without stopping the CC-Link system.



Easy troubleshooting

▶ Diagnose CC-Link family networks with GX Works3, GX Works2, or GX Developer.

The status of the CC-Link network can be monitored using GX Works3, GX Works2, or GX Developer.



Handy Line Tester

Directly connect the unit to a CC-Link system to easily monitor the communication status and the remote station input/output and perform an output ON/OFF test. Even if the network does not have a master station connected, an I/O check can be performed by directly connecting the Handy Line Tester.



Made by Mitsubishi Electric Engineering Co., Ltd.

Case Study

"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 100 m, and the transmission speed is unstable."

Mr. A is planning to expand his factory. 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 900 m at 625 kbps, and transmission time is stable as well.

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

Feature 2 CC-Link is a consistent network.

Transmission speeds and overall network distance of other companies' networks

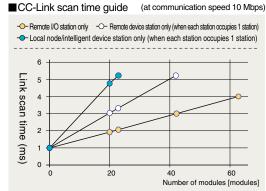
Other network

At 500 kbps

CC-Link

CC-Link scan time guide

--- Remote IO station only --- Remote IO s



"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.

CC-Link Other networks Protocol A Protocol C

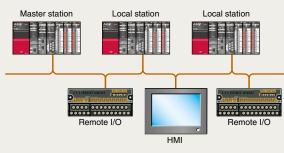
■Protocol comparison

"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.

■ Distributed control by simple inter-controller network



"That's why we

Protocol B

Protocol D



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 networks				
Cable diameter	7 mm	Thick cable: 12 mm	Thin cable: 7 mm			
Trunk/ Branch	Trunk/ Branch Trunk and branch		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.

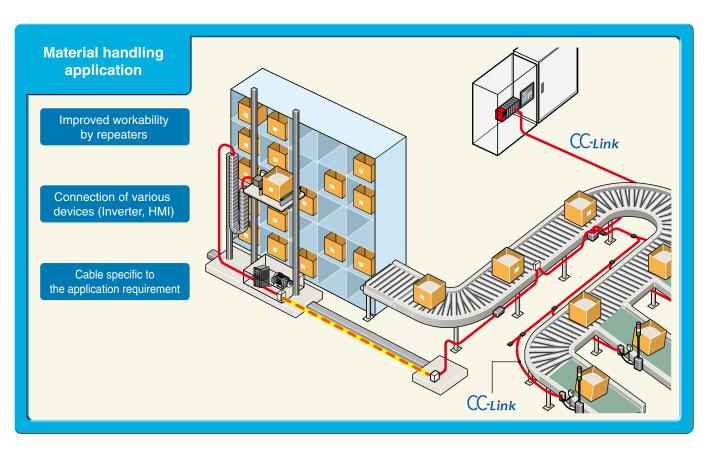
Feature 1 CC-Link is reliable because the conformance test is mandatory.

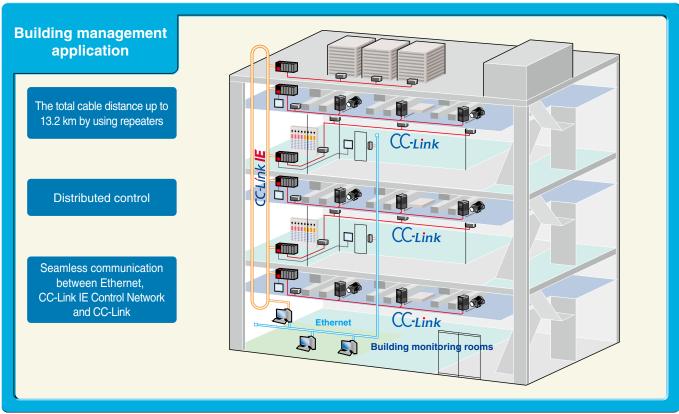




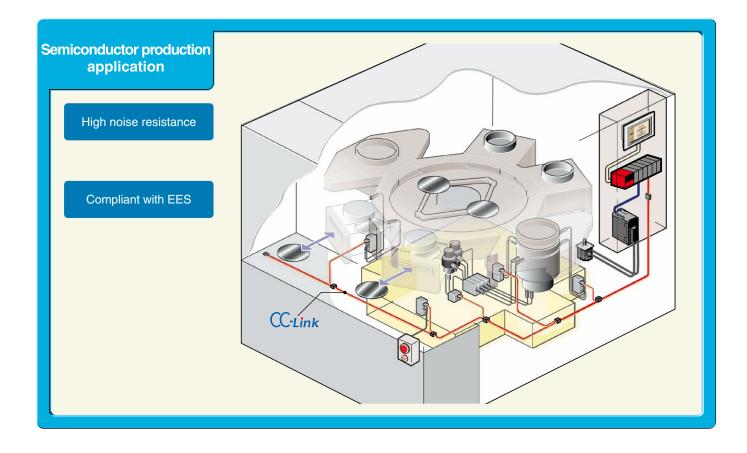


Networks is a key factor in various business applications.





The CC-Link family is the best solution.





Master/local modules

MELSEC iQ-R Series

RJ61BT11

CC-Link V2



Occupied I/O points: 32 points

Occupied stations (as local stations): 1 to 4*1 (selectable)

MELSEC-Q Series

QJ61BT11N

CC-Link V2



Occupied I/O points: 32 points

Occupied stations (as local stations): 1 to 4*1 (selectable)

MELSEC-L Series

LJ61BT11

CC-Link V2



Occupied I/O points: 32 points

Occupied stations (as local stations): 1 to 4*1 (selectable)

MELSEC iQ-F Series

FX5-CCL-MS



Occupied I/O points: 8 points*2

Occupied stations (as intelligent device stations): 1 to 4 (selectable)

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 (as local stations): 1 to 4*1 (selectable)

MELSEC-FX Series

FX₃U-16CCL-M



Occupied I/O points: 8 points

Can be used only as a master station

^{*1} The number of occupied stations at a local station is set by a parameter in GX Works3, GX Works2 or GX Developer.

^{*2} The number of remote I/O points are added when using with the master station.

Bridge 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-AnyWireASLINK Bridge module

NZ2AW1C2AL



Occupied stations: 1 to 4

with AnyWireASLINK 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

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	≤ 20 ms	100120 V AC/7 mA	2-wire type
AJ65SBTB2N-16A	AC	-	16	≤ 20 ms	100120 V AC/7 mA	2-wire type
AJ65SBTB1-8D	DC	Positive/Negative common	8	≤ 1.5 ms	24 V DC/7 mA	1-wire type
AJ65SBTB3-8D	DC	Positive/Negative common	8	≤ 1.5 ms	24 V DC/7 mA	3-wire type
AJ65SBTB1-16D	DC	Positive/Negative common	16	≤ 1.5 ms	24 V DC/7 mA	1-wire type
AJ65SBTB1-16D1	DC	Positive/Negative common	16	≤ 0.2 ms	24 V DC/5 mA	1-wire type
AJ65SBTB3-16D	DC	Positive/Negative common	16	≤ 1.5 ms	24 V DC/7 mA	3-wire type
AJ65SBTB3-16KD	DC	Positive/Negative common	16	≤ 0.2 ms, ≤ 1.5 ms, ≤ 5 ms, ≤ 10 ms	24 V DC/7 mA	3-wire type
AJ65SBTB1-32D	DC	Positive/Negative common	32	≤ 1.5 ms	24 V DC/7 mA	1-wire type
AJ65SBTB1-32D1	DC	Positive/Negative common	32	≤ 0.2 ms	24 V DC/5 mA	1-wire type
AJ65SBTB1-32D5	DC	Positive/Negative common	32	≤ 1.5 ms	5 V DC/4 mA	1-wire type
AJ65SBTB1-32KD	DC	Positive/Negative common	32	≤ 0.2 ms, ≤ 1.5 ms, ≤ 5 ms, ≤ 10 ms	24 V DC/7 mA	1-wire type

Output modules

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

Model		Input format	Number of input points	Input response time	Rated input voltage /current	Outpu	it type	Number of output points	Leakage current at OFF	Output protection function	Rated load voltage /Max. load current	External connection
AJ65SBTB32-8DT	DC	Positive common	4	≤ 1.5 ms	24 V DC/7 mA	Transistor	Sink type	4	≤ 0.25 mA	Yes	24 V DC (0.5 A/point)	3-wire type/2-wire type
AJ65SBTB32-8DT2	DC	Positive common	4	≤ 1.5 ms	24 V DC/7 mA	Transistor	Sink type	4	≤ 0.1 mA	No	24 V DC (0.5 A/point)	3-wire type/2-wire type
AJ65SBTB1-16DT	DC	Positive common	8	≤ 1.5 ms	24 V DC/7 mA	Transistor	Sink type	8	≤ 0.25 mA	Yes	24 V DC (0.5 A/point)	1-wire type/1-wire type
AJ65SBTB1-16DT1	DC	Positive common	8	≤ 0.2 ms	24 V DC/5 mA	Transistor	Sink type	8	≤ 0.25 mA	Yes	24 V DC (0.5 A/point)	1-wire type/1-wire type
AJ65SBTB1-16DT2	DC	Positive common	8	≤ 1.5 ms	24 V DC/7 mA	Transistor	Sink type	8	≤ 0.1 mA	No	24 V DC (0.5 A/point)	1-wire type/1-wire type
AJ65SBTB1-16DT3	DC	Positive common	8	≤ 0.2 ms	24 V DC/5 mA	Transistor	Sink type	8	≤ 0.1 mA	No	24 V DC (0.5 A/point)	1-wire type/1-wire type
AJ65SBTB32-16DT	DC	Positive common	8	≤ 1.5 ms	24 V DC/7 mA	Transistor	Sink type	8	≤ 0.25 mA	Yes	24 V DC (0.5 A/point)	3-wire type/2-wire type
AJ65SBTB32-16DT2	DC	Positive common	8	≤ 1.5 ms	24 V DC/7 mA	Transistor	Sink type	8	≤ 0.1 mA	No	24 V DC (0.5 A/point)	3-wire type/2-wire type
AJ65SBTB1-32DT	DC	Positive common	16	≤ 1.5 ms	24 V DC/7 mA	Transistor	Sink type	16	≤ 0.25 mA	Yes	24 V DC (0.5 A/point)	1-wire type/1-wire type
AJ65SBTB1-32DT1	DC	Positive common	16	≤ 0.2 ms	24 V DC/5 mA	Transistor	Sink type	16	≤ 0.25 mA	Yes	24 V DC (0.5 A/point)	1-wire type/1-wire type
AJ65SBTB1-32DT2	DC	Positive common	16	≤ 1.5 ms	24 V DC/7 mA	Transistor	Sink type	16	≤ 0.1 mA	No	24 V DC (0.5 A/point)	1-wire type/1-wire type
AJ65SBTB1-32DT3	DC	Positive common	16	≤ 0.2 ms	24 V DC/5 mA	Transistor	Sink type	16	≤ 0.1 mA	No	24 V DC (0.5 A/point)	1-wire type/1-wire type
AJ65SBTB1-32KDT2	DC	Positive common	16	\leq 0.2 ms, \leq 1.5 ms, \leq 5 ms, \leq 10 ms	24 V DC/7 mA	Transistor	Sink type	16	≤ 0.1 mA	No	24 V DC (0.5 A/point)	1-wire type/1-wire type
AJ65SBTB1-32DTE1	DC	Negative common	16	≤ 1.5 ms	24 V DC/7 mA	Transistor	Source type	16	≤ 0.1 mA	No	24 V DC (0.5 A/point)	1-wire type/1-wire type
AJ65SBTB32-16DR	DC	Positive/Negative common	8	≤ 1.5 ms	24 V DC/7 mA	Relay	-	8	-	No	24 V DC/240 V AC (2 A/point)	3-wire type/2-wire type
AJ65SBTB32-16KDR	DC	Positive/Negative common	8	≤ 0.2 ms, ≤ 1.5 ms, ≤ 5 ms, ≤ 10 ms	24 V DC/7 mA	Relay	-	8	-	No	24 V DC/240 V AC (2 A/point)	3-wire type/2-wire type

A2C form terminal block type

AJ65DBTB -32



Features

- \bigcirc The I/O terminal block is removable.

New installation holes are unnecessary.

Input modules

Model		Input format	Number of input points	Input response time	Rated input voltage/current	External connection
A.I65DBTB1-32D	DC	Positive/Negative common	32	< 10 ms	24 V DC/5 mA	1-wire type

Output modules

Model	Output	t format	Number of output points	Leakage current at OFF	Output protection function	Rated load voltage /Max. load current	External connection
AJ65DBTB1-32T1	Transistor	Sink type	32	≤ 0.1 mA	No	12/24 V DC (0.5 A/point)	1-wire type
AJ65DBTB1-32R	Relay	-	32	-	No	24 V DC/240 V AC (2 A/point)	1-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 /Max. load current	External connection
AJ65DBTB1-32DT1	DC	Positive common	16	≤ 10 ms	24 V DC/5 mA	Transistor	Sink type	16	≤ 0.1 mA	No	12/24 V DC (0.5 A/point)	1-wire type/1-wire type
AJ65DBTB1-32DR	DC	Positive/Negative common	16	≤ 10 ms	24 V DC/5 mA	Relay	-	16	-	No	24 V DC /240 V AC (2 A/point)	1-wire type/1-wire type

Spring clamp terminal block push-in type

AJ65ABTP3-16D AJ65ABTP3-16DE



Features

- Wiring time can be reduced using push-in type terminal blocks.
- Wire 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	Input response time	Rated input voltage/current	
AJ65ABTP3-16D	DC	Positive common	16	≤ 1.5 ms	24 V DC/6 mA	3-wire type
AJ65ABTP3-16DE	DC	Negative common	16	≤ 1.5 ms	24 V DC/6 mA	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 installation 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	≤ 1.5 ms	24 V DC/5 mA	3-wire type	
AJ65VBTS3-32D	DC	Positive common	32	≤ 1.5 ms	24 V DC/5 mA	3-wire type	

Output modules

Model	Output		Number of output points	Leakage current at OFF	Output protection function	Rated load voltage /Max. load current	External connection
AJ65VBTS2-16T	Transistor	Sink type	16	≤ 0.1 mA	No	12/24 V DC (0.5 A/point)	2-wire type
AJ65VBTS2-32T	Transistor	Sink type	32	≤ 0.1 mA	No	12/24 V DC (0.5 A/point)	2-wire type

Model	Input format			Rated input voltage/current	Output		Number of output points	Leakage current at OFF	Output protection function	Rated load voltage /Max. load current	External connection
AJ65VBTS32-16DT	DC Positive common	8	≤ 1.5 ms	24 V DC/5 mA	Transistor	Sink type	8	≤ 0.1 mA	No	24 V DC (0.5 A/point)	3-wire type/2-wire type
AJ65VBTS32-32DT	DC Positive common	16	≤ 1.5 ms	24 V DC/5 mA	Transistor	Sink type	16	≤ 0.1 mA	No	12/24 V DC (0.5 A/point)	3-wire type/2-wire type

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

▶ Sensor connector type

e-CON type

AJ65VBTCE __-



Features

- \bigcirc Industry-standard e-CON has been adopted.
- ©Easy wiring with sensor connectors
- ODIN rail or screw installation is selectable.
- The 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	≤ 1.5 ms	24 V DC/5 mA	3-wire type
AJ65VBTCE3-16D	DC	Positive common	16	≤ 1.5 ms	24 V DC/5 mA	3-wire type
AJ65VBTCE3-32D	DC	Positive common	32	≤ 1.5 ms	24 V DC/5 mA	3-wire type
AJ65VBTCE3-16DE	DC	Negative common	16	≤ 1.5 ms	24 V DC/5 mA	3-wire type
AJ65VBTCE3-32DE	DC	Negative common	32	≤ 1.5 ms	24 V DC/5 mA	3-wire type

Output modules

Model			Number of output points	Leakage current at OFF	Output protection function	Rated load voltage /Max. load current	External connection
AJ65VBTCE2-8T	Transistor	Sink type	8	≤ 0.1 mA	Yes	12/24 V DC (0.1 A/point)	2-wire type
AJ65VBTCE2-16T	Transistor	Sink type	16	≤ 0.1 mA	Yes	12/24 V DC (0.1 A/point)	2-wire type
AJ65VBTCE3-16TE	Transistor	Source type	16	≤ 0.1 mA	Yes	12/24 V DC (0.1 A/point)	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 /Max. load current	External connection
AJ65VBTCE32-16DT	DC Positive common	8	≤ 1.5 ms	24 V DC/5 mA	Transistor	Sink type	8	≤ 0.1 mA	Yes	24 V DC (0.1 A/point)	3-wire type/2-wire type
AJ65VBTCE32-32DT	DC Positive common	16	≤ 1.5 ms	24 V DC/5 mA	Transistor	Sink type	16	≤ 0.1 mA	Yes	24 V DC (0.1 A/point)	3-wire type/2-wire type
AJ65VBTCE3-32DTE	DC Negative common	16	≤ 1.5 ms	24 V DC/5 mA	Transistor	Source type	16	≤ 0.1 mA	Yes	24 V DC (0.1 A/point)	3-wire type/3-wire type

One-touch connector type









Features

- ©Easy wiring with sensor connectors
- The modules can be installed in six orientations.

Input modules

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

Output modules

Model	Output format		Number of output points	Leakage current at OFF	Output protection function	Rated load voltage /Max. load current	External connection
AJ65VBTCU2-8T	Transistor	Sink type	8	≤ 0.1 mA	Yes	12/24 V DC (0.1 A/point)	2-wire type
AJ65VBTCU2-16T	Transistor	Sink type	16	≤ 0.1 mA	Yes	12/24 V DC (0.1 A/point)	2-wire type
AJ65SBTC1-32T1	Transistor	Sink type	32	≤ 0.1 mA	No	12/24 V DC (0.1 A/point)	1-wire type

Model	Input forma	t 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 /Max. load current	External connection
AJ65SBTC4-16DT2	DC Positive co	nmon 8	≤ 1.5 ms	24 V DC/5 mA	Transistor	Sink type	8	≤ 0.1 mA	No	24 V DC (0.5 A/point)	4-wire type
AJ65SBTC1-32DT3	DC Positive co	nmon 16	≤ 0.2 ms	24 V DC/5 mA	Transistor	Sink type	16	≤ 0.1 mA	No	24 V DC (0.1 A/point)	1-wire type/1-wire type

40-pin connector type

AJ65SBTCF .

AJ65VBTCF __-





Features

- The modules can be installed in six orientations.

Input modules

Model		Input format	Number of input points	Input response time	Rated input voltage/current	External connection
AJ65SBTCF1-32D	DC	Positive/Negative common	32	≤ 1.5 ms	24 V DC/5 mA	1-wire type

Output modules

Model	Output f		Number of output points	Leakage current at OFF	Output protection function	Rated load voltage /Max. load current	External connection
AJ65SBTCF1-32T	Transistor	Sink type	32	≤ 0.1 mA	Yes	12/24 V DC (0.1 A/point)	1-wire type

I/O combined modules

		Input format	Number of input points		Rated input voltage/current	Output		Number of output points	Leakage current at OFF	Output protection function	Rated load voltage /Max. load current	External connection
AJ65SBTCF1-32DT	DC	Positive/Negative common	16	≤ 1.5 ms	24 V DC/5 mA	Transistor	Sink type	16	≤ 0.1 mA	Yes	12/24 V DC (0.1 A/point)	1-wire type /1-wire type
AJ65VBTCF1-32DT1	DC	Positive/Negative common	16	≤ 0.2 ms	24 V DC/5 mA	Transistor	Sink type	16	≤ 0.1 mA	Yes	12/24 V DC (0.1 A/point)	1-wire type /1-wire type
AJ65VBTCFJ1-32DT1	DC	Positive common	16	≤ 0.2 ms	24 V DC/5 mA	Transistor	Sink type	16	≤ 0.1 mA	Yes	24 V DC (0.1 A/point)	1-wire type /1-wire type

Waterproof connector type

AJ65FBTA -16



Features

- Waterproof type modules are compliant with the IP67 standard for water resistance.
- Modules can be replaced without stopping the system.
- Easy connection without using any tool reduces wiring time.
- \bigcirc 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	Input response time	Rated input voltage/current	External connection
AJ65FBTA4-16D	DC	Positive common	16	≤ 1.5 ms	24 V DC/7 mA	2 to 4-wire type
AJ65FBTA4-16DE	DC	Negative common	16	≤ 1.5 ms	24 V DC/7 mA	2 to 4-wire type

Output modules

Model	Output		Number of output points	Leakage current at OFF	Output protection function	Rated load voltage /Max. load current	External connection
AJ65FBTA2-16T	Transistor	Sink type	16	≤ 0.25 mA	Yes	12/24 V DC (0.5 A/point)	2-wire type
AJ65FBTA2-16TE	Transistor	Source type	16	≤ 0.30 mA	Yes	12/24 V DC (1.0 A/point)	2-wire type

Model		Input format	Number of input points	Input response time	Rated input voltage/current	Outpu	t format	Number of output points	Leakage current at OFF	Output protection function	Rated load voltage /Max. load current	External connection
AJ65FBTA42-16DT	DC	Positive common	8	≤ 1.5 ms	24 V DC/7 mA	Transistor	Sink type	8	≤ 0.25 mA	Yes	24 V DC (0.5 A/point)	2 to 4-wire type /2-wire type
AJ65FBTA42-16DTE	DC	Negative common	8	≤ 1.5 ms	24 V DC/7 mA	Transistor	Source type	8	≤ 0.30 mA	Yes	24 V DC (1.0 A/point)	2 to 4-wire type /2-wire type

Safety relay modules

► Terminal block type

Spring clamp terminal block type

QS90SR2SP-CC QS90SR2SN-CC



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.

OSafety 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.

Ite	em	QS90SR2SP-CC	QS90SR2SN-CC		
Safety standard		Category 4 of EN 954-1, PL e of ISO 13849-1			
Number of safety	y input points		1 point (2 inputs)		
Number of start-	up input points		1 point		
Input format		P type (positive common/positive common)	N type (positive common/negative common)		
Number of safety output points			1 point (3 outputs)		
Rated load current		Category 4: 3.6 A/point or less	Category 4: 3.6 A/point or less Category 3: 5.0 A/point or less (250 V AC/30 V DC)		
Output OFF		≤ 20 ms (safety input OFF → safety output OFF)			
Response time Output ON ≤ 50 ms (safety input ON → safety output ON)		y input ON → safety output ON)			
Module power su	upply	20.426.4 V DC (ripple ratio: ≤ 5 %)			
Safety power sur	pply	20.426.4 V DC (ripple ratio: ≤ 5 %)			
Number of extension modules		safety relay modules can be connected.			
External connection method Two-piece spring clamp terminal block		spring clamp terminal block			
Poly III Mechanical Five million times or more			million times or more		
Relay life Electrical		One hund	red thousand times or more		

Analog modules

▶ Connector type

Analog input modules

One-touch connector type

CC-Link V2

AJ65VBTCU-68ADVN AJ65VBTCU-68ADIN



Voltage	input	module

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

Current input module

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

^{*1:} 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

Model	Number of channels	Number of occupied points	Station type
AJ65VBTCU-68DAVN	8	1/3 *1	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	Station type
AJ65SBT-64AD	4	1	Remote device
AJ65SBT2B-64AD	4	1	Remote device

Temperature input modules

Screw/2-piece terminal block type

AJ65SBT2B-64TD AJ65SBT2B-64RD3



Thermocouple temperature input module

AJ655B12B-641D	4	1	Remote device
RTD input module			
	Number of channels	Number of occupied points	Station type
A 165SRT2R-64RD3	1	1	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 channels	Number of occupied points	Station type
AJ65SBT-62DA	2	1	Remote device
AJ65SBT2B-64DA	4	1	Remote device

High-speed counter modules RS-232 interface module

AJ65BT-D62 AJ65BT-D62D



Item	AJ65BT-D62	AJ65BT-D62D
Pulse input	DC input	Differential input
Preset input	DC input	DC input
Counting young	016777215	016777215
Counting range	(24-bit binary)	(24-bit binary)
Number of	4	4
occupied stations	4	4
Station type	Remote device	Remote device

AJ65BT-R2N



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

WS Series interface module

WS0-GCC100202



Features

◎ Interface module for connecting a safety controller as a CC-Link remote device station.

Item	WS0-GCC100202
Description	WS Series interface module
Number of occupied stations	14
Station type	Remote device station
Applicable programmable controller	Safety controller • WS Series

FX Series interface block

FX₃U-64CCL CC-Link V2

$\bigcirc \ \text{Interface block for connecting Mitsubishi micro-programmable controllers FX} 3G,$ FX3U, FX3GC, FX3UC Series as CC-Link intelligent device stations

	· ·
Item	FX3U-64CCL
Description	FX Series interface block
Number of	14
occupied stations	1007
Station type	Intelligent device station
Applicable programmable controller	Mitsubishi micro-programmable controllers FX3G, FX3U Series FX3GC, FX3UC Series (FX2NC-CNV-IF or FX3UC-1PS-5V required)

FX_{2N}-32CCL



FX3U, FX3GC, FX3UC Series as CC-Link remote device stations

Item	FX ₂ N-32CCL
Description	FX Series interface block
Number of occupied stations	14
Station type	Remote device station
Applicable programmable controller	Mitsubishi micro-programmable controllers FX3G, FX3U Series FX3GC, FX3UC Series (FX2NC-CNV-IF or FX3UC-1PS-5V required)

Network interface boards

Q80BD-J61BT11N Q81BD-J61BT11



Features

- ©Personal computers and other devices equipped with a PCI or PCI Express® bus can be incorporated into the CC-Link system.
- OCan be used as a CC-Link Ver.2 compatible master station, standby master station or local station.
- ©Drivers compatible with each of the following OS are included. (Windows® 8.1, Windows® 8, Windows® 7, Windows Vista® (32 bits), Windows® XP (32 bits), Windows Server® 2012 Standard, Windows Server® 2008, Windows Server® 2003 R2)

	Q80BD-J61BT11N	Q81BD-J61BT11
Description	PCI slot (half size)	PCI Express® X1, X2, X4, X8, X16 slot (half size)
Number of occupied stations	14*1	14*1
Station type	Master station, standby master station or local station	Master station, standby master station or local station

^{*1: 1} to 4 stations when remote net Ver.2 mode or remote net additional mode is used. 1 or 4 stations when remote net Ver.1 mode is used.

Repeater modules

Repeater module

AJ65FBTA-RPH AJ65SBT-RPS/RPG

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

AJ65SBT-RPT





AJ65SBT-RPT



AJ65BTS-RPH



AJ65SBT-RPS AJ65SBT-RPG



AJ65FBTA-RPH

- \bigcirc The following 5 types are available for various
- \bigcirc Low profile 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
Low profile 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.	-	-
Ontical remedter 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: 500 m (SI)/1000 m (QSI)	-	-
Optical repeater modules	AJ65SBT-RPG	For GI-type optical fiber cables (Use two modules as a set). Maximum number of connected levels: 2, maximum transmission distance: 2000 m	-	-
Space optical repeater modules	AJ65BT-RPI-10A	Use AJ65BT-RPI-10A and AJ65BT-RPT-10B as a set. Transmission speeds of 156 kbps, 625 kbps and 2.5 Mbps 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 (20 pcs)

A6CON-P514 (20 pcs) A6CON-P520

Applicable models

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

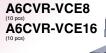
Online connector for communication

A6CON-LJ5P



@Applicable models *1

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



 One-touch connector plug for communication

A6CON-L5P



©Applicable models *1 Only FANC-110SBH, CS-110, and FA-CBL200PBSH can be used.

Online connector for power supply

A6CON-PWJ5P



@Applicable models *2

40-pin connector

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

(1 pc)

@Applicable models

AJ65SBTC□-□ remote I/O module

AJ65VBTCF-□ remote I/O module

One-touch connector plug for power supply and FG

A6CON-PW5P
A6CON-PW5P-SOD



@Applicable models *2

Protective cover

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

Protective cap for unused connector

A6CAP-WP2



 One-touch connector plug with terminating resister

A6CON-TR11N



OApplicable models *1

Protective cover for spring clamp terminal block type module

A6CVR-VS16



Handy line tester

EHLT02



Mitsubishi Electric Engineering Co.,Ltd.

- *1: AJ65VBTCU-- remote I/O module, AJ65VBTCE-- remote I/O module, AJ65VBTCU-- remote I/O module, AJ65ABTP-- remote I/O module, AJ65VBTCU- analog module
- *2: 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



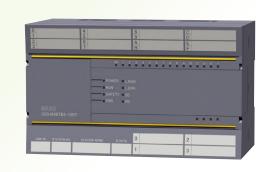
Occupied I/O points: 32 points
Can be used only as a master station

Remote I/O modules

► Terminal block type

Screw terminal block type

QS0J65BTB2-12DT



Features

- The system complying with Category 3 or Category 4 of EN 954-1 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

					0	utput format		Leakage current at OFF			
QS0J65BTB2-12DT	DC	Negative common	8/16	24 V DC/4.6 mA	Transistor	Source + sink/ Source + source type	4/2	≤ 0.5 mA	Yes	24 V DC (0.5 A/point)	2-wire type /2-wire type

Spring clamp terminal block type

QS0J65BTS2-8D QS0J65BTS2-4T



Features

- The remote I/O module which has obtained the highest safety level applicable to programmable controllers, and the safety-related system with high security can be configured.
- The system complying with Category 3 or Category 4 of EN 954-1 can be configured by the combination of wiring and parameters.

Input module

Model	Input format		Number of input points			External connection
QS0J65BTS2-8D	DC	Negative common	8/16	≤ 11.2 ms	24 V DC/5.9 mA	2-wire type

Output module

Model	Output format			Leakage current	Output protection		External
Model		Output format	output points	at OFF		/Max. load current	connection
QS0J65BTS2-4T	Transistor	Source + sink/Source + source type	4/2	≤ 0.5 mA	Yes	24 V DC (0.5 A/point)	2-wire type

Embedded modules

For details, see "Open Field Network CC-Link Family Compatible Product Development Guidebook."





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



Features

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

Model	Device kit
Ordering model name	Q6KT-NPC2OG51
Package unit	40 pcs
Application	Network circuit

MFP: Mitsubishi Field-network Processor

Dedicated communication LSI

MFP2N MFP2AN MFP3N



Features

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

Model	MFF	2AN	MF	P2N	MFP3N		
Ordering model	A6GA-	A6GA-	A6GA-	A6GA-	A6GA-	A6GA-	
name	CCMFP2ANN 60F	CCMFP2ANN 300F	CCMFP2NN 60F	CCMFP2NN 300F	CCMFP3NN 60F	CCMFP3NN 300F	
Package unit	60 pcs	300 pcs	60 pcs	300 pcs	60 pcs	300 pcs	
Application	Remote I	O station	Remote I	O station	Remote device station		

MFP: Mitsubishi Field-network Processor

Embedded I/O module

AJ65MBTL1N-16D AJ65MBTL1N-32T

AJ65MBTL1N-32D AJ65MBTL1N-16DT

AJ65MBTL1N-16T



Features

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

Input modules

•						
Model	Input format		Input format Number of input points		Rated input voltage/current	
AJ65MBTL1N-16D	DC	Positive common	16	≤ 1.5 ms	24 V DC/4 mA	
AJ65MBTL1N-32D	DC	Positive common	32	≤ 1.5 ms	24 V DC/4 mA	

Circuit board placing example

Output modules

Model	Output format		Number of output points	Leakage current at OFF	Output protection function	Rated load voltage /Max. load current		
AJ65MBTL1N-16T	Transistor	Sink type	16	≤ 0.1 mA	Yes	12/24 V DC (0.1 A/point)		
A.I65MBTI 1N-32T	Transistor	Sink type	32	< 0.1 mA	Yes	12/24 V DC (0.1 A/point)		

I/O combined module

		Input format	Number of input points	Input response time	Rated input voltage/current	Output format		Number of output points	Leakage current at OFF		Rated load voltage /Max. load current
AJ65MBTL1N-16DT	DC	Positive common	8	≤ 1.5 ms	24 V DC/7 mA	Transistor	Sink type	8	≤ 0.1 mA	Yes	24 V DC (0.1 A/point)

*For the development of CC-Link products that use MFP, "Open Field Network CC-Link Family Compatible Product Development Guidebook (L(NA)-08052E)" 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

	Item	l				Specifications		
			Remote input/out	put (RX, RY): 2048	points	· ·		
Control specifications		CC-Link Ver.1		RWw): 256 points				
icat	Max. number of link poi		Remote register (RWr): 256 points					
ecif		pints		put (RX, RY): 8192	nointe			
ds l		CC-Link Ver.2		RWw): 2048 points	politis			
ntro		OO-LINK VOI.2	1	RWr): 2048 points				
S	Number of link points	or station			h number of occ	cupied stations on page 36.		
	Transmission rate	Jei station			ir ridiriber of occ	upled stations on page 30.		
			10 M/5 M/2.5 M/6					
	Communication method		Broadcast polling					
	Synchronization method	00	Frame synchroni	zation method				
	Encoding method		NRZI method	= ==				
	Transmission path type	9		ning to EIA RS-485)				
	Transmission format		Conforming to HI					
	Error control system		CRC (X ¹⁶ + X ¹² +	X° + 1)				
	Max. number of connected units		64 units					
	Remote station number	ers	1 to 64					
Communication specifications	Max. total cable length and cable length between stations		Master station	remote device	cable length between station Max.			
omr			Transmission rate Cable length between stations Max. total cable length					
0			156 kbps			1200 m		
			625 kbps			900 m		
			2.5 Mbps	20 cm or more 400 m 160 m		400 m		
			5 Mbps					
			10 Mbps					
			10 1015			100 111		
	Connection cables * Use t * If oth * Cable * For tt the C * The C		* Use the dedicate * If other cables a * Cables of differe * For the specificathe CC-Link Pai	CC-Link dedicated cables compatible with ver.1.10 * Use the dedicated cable certified by the CC-Link Partner Association. * If other cables are used, the operation will not be guaranteed. * Cables of different manufacturers can be used together if the cables are compatible with ver.1.10. * For the specifications for the CC-Link dedicated cables and the contact information, see the partner product catalogs issued by the CC-Link Partner Association, or visit the CC-Link Partner Association website, http://www.cc-link.org. * The CC-Link dedicated cables, CC-Link dedicated high-performance cables and CC-Link ver.1.10 dedicated cables cannot be used together.				
	If the CC-Link cables	are connected through rela	av terminal blocks or	relay connectors of	ommunication er	rrors may occur on some systems. The cables should be connected		
	directly to each CC-Li	nk module, or CC-Link rep d conditions for connecting	eater modules shoul	d be used.		·		
	Communication spec	ed	1	56 kbps 625 kbps	10, 5 and 2.5 l	Mbps are not allowed.		
rks		Between master/local station	on or	1 m or more	In the case of	a system consisting of only remote I/O and remote device stations		
Remarks		ntelligent device station an		2 m or more		a system configuration including local stations and intelligent device static		
Re	between stations	Between remote I/O station emote device station (shor		30 cm or more		-		
	Max. transmission d	stance		500 m 100 m		_		
	Distance between re	lay connectors		No limitation		-		

Number of link points per number of occupied stations

The number of link points per number of occupied stations is shown below.

					CC-Lir	k Ver.2				
Item			CC-Link Ver.1	Extended cyclic setting						
				Single	Double	Quadruple	Octuple			
		Remote I/O (RX, RY)	32 points (30 points for local station)	32 points (30 points for local station)	32 points (30 points for local station)	64 points (62 points for local station)	128 points (126 points for local station)			
	1 station occupied	Remote register (RWw)	4 points	4 points	8 points	16 points	32 points			
		Remote register (RWr)	4 points	4 points	8 points	16 points	32 points			
s per stations	2 stations occupied	Remote I/O (RX, RY)	64 points (62 points for local station)	64 points (62 points for local station)	96 points (94 points for local station)	192 points (190 points for local station)	384 points (382 points for local station)			
points per ipied statio		Remote register (RWw)	8 points	8 points	16 points	32 points	64 points			
poir		Remote register (RWr)	8 points	8 points	16 points	32 points	64 points			
of link point of occupied		Remote I/O (RX, RY)	96 points (94 points for local station)	96 points (94 points for local station)	160 points (158 points for local station)	320 points (318 points for local station)	640 points (638 points for local station)			
Number	3 stations occupied	Remote register (RWw)	12 points	12 points	24 points	48 points	96 points			
ā ā		Remote register (RWr)	12 points	12 points	24 points	48 points	96 points			
		Remote I/O (RX, RY)	128 points (126 points for local station)	128 points (126 points for local station)	224 points (222 points for local station)	448 points (446 points for local station)	896 points (894 points for local station)			
	4 stations occupied	Remote register (RWw)	16 points	16 points	32 points	64 points	128 points			
		Remote register (RWr)	16 points	16 points	32 points	64 points	128 points			

Maximum number of connected units

Remote net Ver.1 mode

A total of 64 remote I/O stations, remote device stations, local stations, standby master stations and intelligent device stations can be connected to one master station. However, all the following conditions must be met.

	Item	Number of modules
Condition 1	$\{(1 \times a) + (2 \times b) + (3 \times c) + (4 \times d)\} \le 64$	a. Number of modules occupying 1 station b. Number of modules occupying 2 stations c. Number of modules occupying 3 stations d. Number of modules occupying 4 stations
Condition 2	$\{(16 \times A) + (54 \times B) + (88 \times C)\} \le 2304$	A. Number of remote I/O stations ≤ 64 B. Number of remote device stations ≤ 42 C. Number of local stations, standby master stations and intelligent device stations ≤ 26

Remote net Ver.2 mode

A total of 64 remote I/O stations, remote device stations, local stations, standby master stations and intelligent device stations can be connected to one master station. However, all the following conditions must be met.

	Item	Number of modules
Condition 1	$ \{(a+a2+a4+a8) \\ + (b+b2+b4+b8) \times 2 \\ + (c+c2+c4+c8) \times 3 \\ + (d+d2+d4+d8) \times 4\} \le 64 $	a: Total number of Ver.1-compatible device stations occupying 1 station and Ver.2-compatible device stations occupying 1 station with the expanded cyclic setting of "Single" b: Total number of Ver.1-compatible device stations occupying 2 stations with the expanded cyclic setting of "Single" c: Total number of Ver.1-compatible device stations occupying 3 stations with the expanded cyclic setting of "Single" d: Total number of Ver.1-compatible device stations occupying 3 stations with the expanded cyclic setting of "Single" d: Total number of Ver.1-compatible device stations occupying 4 stations with the expanded cyclic setting of "Single"
Condition 2	$\begin{aligned} & [\{(a\times32)+(a2\times32)+(a4\times64)+(a8\times128)\} \\ & + \{(b\times64)+(b2\times96)+(b4\times192)+(b8\times384)\} \\ & + \{(c\times96)+(c2\times160)+(c4\times320)+(c8\times640)\} \\ & + \{(d\times128)+(d2\times224)+(d4\times448)+(d8\times896)]\} \le 8192 \end{aligned}$	a2: Number of Ver.2-compatible device stations occupying 1 station with the expanded cyclic setting of "Double" b2: Number of Ver.2-compatible device stations occupying 2 stations with the expanded cyclic setting of "Double" c2: Number of Ver.2-compatible device stations occupying 3 stations with the expanded cyclic setting of "Double" d2: Number of Ver.2-compatible device stations occupying 4 stations with the expanded cyclic setting of "Double"
Condition 3	$\begin{aligned} & \left[\left\{ (a \times 4) + (a2 \times 8) + (a4 \times 16) + (a8 \times 32) \right\} \right. \\ & \left. + \left\{ (b \times 8) + (b2 \times 16) + (b4 \times 32) + (b8 \times 64) \right\} \right. \\ & \left. + \left\{ (c \times 12) + (c2 \times 24) + (c4 \times 48) + (c8 \times 96) \right\} \right. \\ & \left. + \left\{ (d \times 16) + (d2 \times 32) + (d4 \times 64) + (d8 \times 128) \right\} \right] \le 2048 \end{aligned}$	a4: Number of Ver.2-compatible device stations occupying 1 station with the expanded cyclic setting of "Quadruple" b4: Number of Ver.2-compatible device stations occupying 2 stations with the expanded cyclic setting of "Quadruple" c4: Number of Ver.2-compatible device stations occupying 3 stations with the expanded cyclic setting of "Quadruple" d4: Number of Ver.2-compatible device stations occupying 1 stations with the expanded cyclic setting of "Quadruple" a8: Number of Ver.2-compatible device stations occupying 1 stations with the expanded cyclic setting of "Octuple" b8: Number of Ver.2-compatible device stations occupying 2 stations with the expanded cyclic setting of "Octuple" c8: Number of Ver.2-compatible device stations occupying 3 stations with the expanded cyclic setting of "Octuple" d8: Number of Ver.2-compatible device stations occupying 4 stations with the expanded cyclic setting of "Octuple"
Condition 4	{(16 × A) + (54 × B) + (88 × C)} ≤ 2304	A: Number of remote I/O stations ≤ 64 B: Number of remote device stations ≤ 42 C: Number of local stations, standby master stations and intelligent device stations ≤ 26

Remote device net Ver.1 mode

A total of 64 remote I/O stations and remote device stations can be connected to one master station. However, all the following conditions must be met.

	Item	Number of modules
		a. Number of modules occupying 1 station
Condition 1	$\{(1 \times a) + (2 \times b) + (3 \times c) + (4 \times d)\} \le 64$	b. Number of modules occupying 2 stations
Condition		c. Number of modules occupying 3 stations
		d. Number of modules occupying 4 stations

Remote device net Ver.2 mode

A total of 64 remote I/O stations and remote device stations can be connected to one master station. However, all the following conditions must be met.

	Item	Number of modules
Condition 1	$\{(a + a2 + a4 + a8) + (b + b2 + b4 + b8) \times 2 + (c + c2 + c4 + c8) \times 3 + (d + d2 + d4 + d8) \times 4\} \le 64$	a: Total number of Ver.1-compatible remote stations occupying 1 station and Ver.2-compatible remote device stations occupying 1 station (extended cyclic setting: single) b: Total number of Ver.1-compatible remote stations occupying 2 stations and Ver.2-compatible remote device stations occupying 2 stations (extended cyclic setting: single) c: Total number of Ver.1-compatible remote stations occupying 3 stations and Ver.2-compatible remote device stations occupying 3 stations (extended cyclic setting: single) d: Total number of Ver.1-compatible remote stations occupying 4 stations and Ver.2-compatible remote device stations occupying 4 stations (extended cyclic setting: single)
Condition 2	[((a x 32) + (a2 x 32) + (a4 x 64) + (a8 x 128)) + [(b x 64) + (b2 x 96) + (b4 x 192) + (b8 x 384)) + [(c x 96) + (c2 x 160) + (c4 x 320) + (c8 x 640)] + [(d x 128) + (d2 x 224) + (d4 x 448) + (d8 x 896))] ≤ 8192	a2: Number of Ver.2-compatible remote device stations occupying 1 station (extended cyclic setting: double) b2: Number of Ver.2-compatible remote device stations occupying 2 stations (extended cyclic setting: double) c2: Number of Ver.2-compatible remote device stations occupying 3 stations (extended cyclic setting: double) d2: Number of Ver.2-compatible remote device stations occupying 4 stations (extended cyclic setting: double)
Condition 3	$\begin{split} & [\{(a\times4)+(a2\times8)+(a4\times16)+(a8\times32)\}\\ &+\{(b\times8)+(b2\times16)+(b4\times32)+(b8\times64)\}\\ &+\{(c\times12)+(c2\times24)+(c4\times48)+(c8\times96)\}\\ &+\{(d\times16)+(d2\times32)+(d4\times64)+(d8\times128)\}\} \le 2048 \end{split}$	a4: Number of Ver.2-compatible remote device stations occupying 1 station (extended cyclic setting: quadruple) b4: Number of Ver.2-compatible remote device stations occupying 2 stations (extended cyclic setting: quadruple) c4: Number of Ver.2-compatible remote device stations occupying 3 stations (extended cyclic setting: quadruple) d4: Number of Ver.2-compatible remote device stations occupying 4 stations (extended cyclic setting: quadruple) a8: Number of Ver.2-compatible remote device stations occupying 1 station (extended cyclic setting: octuple) b8: Number of Ver.2-compatible remote device stations occupying 2 stations (extended cyclic setting: octuple) c8: Number of Ver.2-compatible remote device stations occupying 3 stations (extended cyclic setting: octuple) d8: Number of Ver.2-compatible remote device stations occupying 4 stations (extended cyclic setting: octuple)

General specifications

* The table below lists the general specifications of remote I/O modules. For the specifications of the master/local modules, please refer to each corresponding manual.

No. ma	Specifications								
Item		CC-Link							
Operating ambient temperature		055°C *1							
Storage ambient temperature	-2075°C *1								
			1090 %RH, non-c	ondensing					
Operating ambient humidity	(The waterproof type remote I/O modules conform to the IP67. *2)								
Storage ambient humidity	1090 %RH, non-condensing								
			Frequency	Acceleration	Amplitude	Number of sweeps			
	Conforming to	Under	58.4 Hz	-	3.5 mm				
Vibration resistance	JIS B 3502,	intermittent vibration	8.4150 Hz	9.8 m/s ²	-	10 times each			
	IEC 61131-2	Under	58.4 Hz	-	1.75 mm	in X, Y and Z directions			
		continuous vibration	8.4150 Hz	4.9 m/s ²	-				
Shock resistance	С	onforming with JIS B 3502	2, IEC 61131-2 (147 m/s ²	, 3 times in each of 3 dire	ections X, Y and Z)				
Operating ambience			No corrosive o	gases					
Operating altitude			≤ 2000 m	*3					
Installation location			Inside a contro	l panel		_			
Overvoltage category *4			≤						
Pollution degree *5			≤ 2						

*1: The table below shows the operating ambient temperature and storage ambient temperature for the AJ65FBTA-RPH type waterproof remote I/O modules and MELSEC-Q Series master module.

Ī	Ite	em	AJ65FBTA-RPH
	Operating ambi	ent temperature	045°C
	Storage ambient temperature	Not wired (standalone product)	-2075°C

- *4: 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 300 V is 2500 V.

 *5: 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.

^{*2:} This is applicable to conditions where waterproof connectors are used for all modules or waterproof caps are placed in unused through-pipes.

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

Contact us when operating in a pressurized state.

Extensive global support coverage providing expert help whenever needed

Global FA centers

EME

Europe FA Center

MITSUBISHI ELECTRIC EUROPE B.V. Polish Branch Tel: +48-12-347-65-81

Germany FA Center

MITSUBISHI ELECTRIC EUROPE B.V. German Branch

Tel: +49-2102-486-0 / Fax: +49-2102-486-1120

UK FA Center

MITSUBISHI ELECTRIC EUROPE B.V. UK Branch

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

Czech Republic FA Center

MITSUBISHI ELECTRIC EUROPE B.V. Czech Branch

Tel: +420-255 719 200

Italy FA Center

MITSUBISHI ELECTRIC EUROPE B.V. Italian Branch

Tel: +39-039-60531 / Fax: +39-039-6053-312

Russia FA Center

MITSUBISHI ELECTRIC (RUSSIA) LLC ST.

Petersburg Branch

Tel: +7-812-633-3497 / Fax: +7-812-633-3499

Turkey FA Center

MITSUBISHI ELECTRIC TURKEY A.S. Umraniye Branch

Tel: +90-216-526-3990 / Fax: +90-216-526-3995

Asia-Pacific

China

Beijing FA Center

MITSUBISHI ELECTRIC AUTOMATION (CHINA) LTD.

Tel: +86-10-6518-8830 / Fax: +86-10-6518-2938

Guangzhou FA Center

MITSUBISHI ELECTRIC AUTOMATION (CHINA) LTD.
Guangzhou FA Center

Tel: +86-20-8923-6730 / Fax: +86-20-8923-6715

Shanghai FA Center

MITSUBISHI ELECTRIC AUTOMATION (CHINA) LTD. Shanghai FA Center

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

Tianjin FA Center

MITSUBISHI ELECTRIC AUTOMATION (CHINA) LTD. Tianjin FA Center

Tel: +86-22-2813-1015 / Fax: +86-22-2813-1017

Taiwan

Taipei FA Center

SETSUYO ENTERPRISE CO., LTD.

Tel: +886-2-2299-9917 / Fax: +886-2-2299-9963

Korea

Korea FA Center

MITSUBISHI ELECTRIC AUTOMATION KOREA CO., LTD.

Tel: +82-2-3660-9632 / Fax: +82-2-3664-0475

Thailand

Thailand FA Center

MITSUBISHI ELECTRIC FACTORY AUTOMATION (THAILAND) CO., LTD.

Tel: +66-2682-6522-31 / Fax: +66-2682-6020

ASEAN

ASEAN FA Center

MITSUBISHI ELECTRIC ASIA PTE. LTD.

Tel: +65-6470-2480 / Fax: +65-6476-7439

Malaysia

Malaysia FA Center

Malaysia FA Center

Tel: +60-3-7626-5080 / Fax: +60-3-7658-3544

Indonesia

Indonesia FA Center

PT. MITSUBISHI ELECTRIC INDONESIA Cikarang Office

Tel: +62-21-2961-7797 / Fax: +62-21-2961-7794

Vietnam

Hanoi FA Center

MITSUBISHI ELECTRIC VIETNAM COMPANY LIMITED Hanoi Branch Office

Tel: +84-24-3937-8075 / Fax: +84-24-3937-8076

Ho Chi Minh FA Center

MITSUBISHI ELECTRIC VIETNAM COMPANY LIMITED

Tel: +84-28-3910-5945 / Fax: +84-28-3910-5947

Philippines

Philippines FA Center

MELCO Factory Automation Philippines Inc.

Tel: +63-(0)2-8256-8042

India

India Ahmedabad FA Center

MITSUBISHI ELECTRIC INDIA PVT. LTD. Ahmedabad Branch

Tel: +91-7965120063

India Bangalore FA Center

MITSUBISHI ELECTRIC INDIA PVT. LTD.

Bangalore Branch

Tel: +91-80-4020-1600 / Fax: +91-80-4020-1699

India Chennai FA Center

MITSUBISHI ELECTRIC INDIA PVT. LTD.

hennai Branch

Tel: +91-4445548772 / Fax: +91-4445548773

India Coimbatore FA Center

MITSUBISHI ELECTRIC INDIA PVT. LTD.

Coimbatore Branch

Tel: +91-422-438-5606

India Gurgaon FA Center

MITSUBISHI ELECTRIC INDIA PVT. LTD.

Gurgaon Head Office Tel: +91-124-463-0300 / Fax: +91-124-463-0399

India Pune FA Center

india Pune FA Center

MITSUBISHI ELECTRIC INDIA PVT. LTD.

Pune Branch

Tel: +91-20-2710-2000 / Fax: +91-20-2710-2100

Americas

USA

North America FA Center

MITSUBISHI ELECTRIC AUTOMATION, INC.

Tel: +1-847-478-2469 / Fax: +1-847-478-2253

Mexico

Mexico City FA Center

MITSUBISHI ELECTRIC AUTOMATION, INC.

Mexico Branch

Tel: +52-55-3067-7511

Mexico FA Center

MITSUBISHI ELECTRIC AUTOMATION, INC.

Queretaro Office

Tel: +52-442-153-6014

Mexico Monterrey FA Center

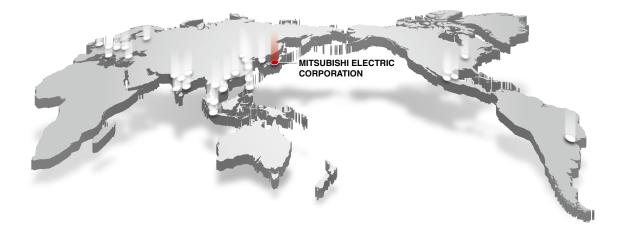
MITSUBISHI ELECTRIC AUTOMATION, INC. Monterrey Office

Tel: +52-55-3067-7521

Brazil

Brazil FA Center

MITSUBISHI ELECTRIC DO BRASIL COMERCIO E SERVICOS LTDA.
Tel: +55-11-4689-3000 / Fax: +55-11-4689-3016

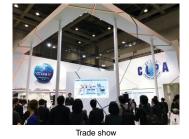


CC-Link Partner Association (CLPA) - Actively promoting worldwide adoption of CC-Link networks

Proactively supporting CC-Link, from promotion to specification development

The CC-Link Partner Association (CLPA) 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, conducting conformance tests, and providing catalogs, brochures and website information, CLPA activities are successfully increasing the number of CC-Link partner manufacturers and CC-Link-compatible products. As such, CLPA is playing a major role in the globalization of CC-Link.







Conformance testing lab

■ Visit the CLPA website for the latest CC-Link information.



CLPA website www.cc-link.org/en

e-mail: info@cc-link.org



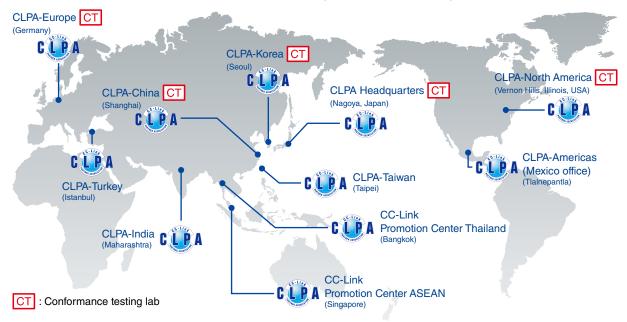


Global influence of CC-Link continues to spread

CLPA

Headquarters

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 CC-Link/CC-Link IE in that part of the world. For companies looking to increase their presence in their local area, CLPA is well placed to assist these efforts through offices in all major regions.



Discover the latest information in Factory Automation

Factory Automation Global website

Mitsubishi Electric Factory Automation provides a mix of services to support its customers worldwide.

A consolidated global website is the main portal, offering a selection of support tools and a window to its local Mitsubishi Electric sales and support network.

From here you can find:

- Overview of available factory automation products
- · Library of downloadable literature
- Support tools such as online e-learning courses, terminology dictionary, etc.
- · Global sales and service network portal
- Latest news related to Mitsubishi Electric factory automation



Mitsubishi Electric Factory Automation Global website: www.MitsubishiElectric.com/fa

Mitsubishi Electric FA e-Learning

An extensive library of e-learning courses covering the factory automation product range.

Courses from beginner to advanced levels of difficulty are available anytime anywhere.



■ Beginner level

Designed for newcomers to Mitsubishi Electric Factory Automation products gaining a background of the fundamentals and an overview of various products related to the course.

■ Basic to Advanced levels

Various different features are explained along with setup, programming, and network configuration.

Innovative next-generation

e-Manual

A next-generation digital manual that consolidates factory automation products manuals into an easy-touse package with various useful features.

e-Manual Viewer

Multiple manuals can be cross-searched at once. Multiple users can share the latest manuals and knowhow with document sharing function.







e-Manual Create

Software for converting word files and chm files to e-Manual documents. User's customized machine manuals can be converted to e-Manual documents, allowing consolidated management of user's maintenance information and Mitsubishi Electric product information.

CC-Link Related Product Model Names

Mitsubishi Electric Corporation

	Туре	Model	Specifications	Protection level	CC-L version
		RJ61BT11	Master/local module for MELSEC iQ-R Series	-	2.0
		FX5-CCL-MS	Master Intelligent Module for MELSEC iQ-F Series	-	2.0
_		QJ61BT11N	Master/local module for MELSEC-Q Series	-	2.0
/laster/loca	al module	L26CPU-BT	CPU with master/local function for MELSEC-L Series Sink output type	-	2.0
		L26CPU-PBT LJ61BT11	CPU with master/local function for MELSEC-L Series Source output type	-	2.0
		FX3U-16CCL-M	Master/local module for MELSEC-L Series Master block for MELSEC-FX Series (FX3d/FX3d/FX3dC/FX3UC)	-	2.0
		NZ2GF-CCB	CC-Link IE Field Network-CC-Link bridge module	<u> </u>	2.0
		NZ2AW1C1BY	CC-Link-AnyWire Bitty bridge module	<u> </u>	1.1
Bridge mod	dule	NZ2AW1C2D2	CC-Link-AnyWire DB A20 bridge module		2.0
		NZ2AW1C2AL	CC-Link-AnyWire ASLINK bridge module		2.0
		AJ65SBTB2N-8A	Input 8 points: 100120 V AC 2-wire type Response time 20 ms	IP1X	1.1
		AJ65SBTB2N-16A	Input 16 points: 100120 V AC 2-wire type Response time 20 ms	IP1X	1.1
		AJ65SBTB1-8D	Input 8 points: 24 V DC (positive/negative common shared) 1-wire type Response time 1.5 ms	IP2X	1.1
		AJ65SBTB3-8D	Input 8 points: 24 V DC (positive/negative common shared) 3-wire type Response time 1.5 ms	IP2X	1.1
		AJ65SBTB1-16D	Input 16 points: 24 V DC (positive/negative common shared) 1-wire type Response time 1.5 ms	IP2X	1.1
		AJ65SBTB1-16D1	Input 16 points: 24 V DC (positive/negative common shared) 1-wire type Response time 0.2 ms	IP2X	1.1
		AJ65SBTB3-16D	Input 16 points: 24 V DC (positive/negative common shared) 3-wire type Response time 1.5 ms	IP2X	1.1
		AJ65SBTB3-16KD	Input 16 points: 24 V DC (positive/negative common shared) 3-wire type Response time 0.2/1.5/5/10 ms switching type	IP2X	1.1
		AJ65SBTB1-32D	Input 32 points: 24 V DC (positive/negative common shared) 1-wire type Response time 1.5 ms	IP2X	1.1
		AJ65SBTB1-32D1	Input 32 points: 24 V DC (positive/negative common shared) 1-wire type Response time 0.2 ms	IP2X	1.1
		AJ65SBTB1-32D5	Input 32 points: 5 V DC (positive/negative common shared) 1-wire type Response time 1.5 ms	IP2X	1.1
		AJ65SBTB1-32KD	Input 32 points: 24 V DC (positive/negative common shared) 1-wire type Response time 0.2/1.5/5/10 ms switching type	IP2X	1.1
		AJ65SBTB1-8T	Output 8 points: 12/24 V DC (0.5 A) Transistor output (sink type) 1-wire type	IP2X	1.1
		AJ65SBTB1-8T1	Output 8 points: 12/24 V DC (0.5 A) Transistor output (sink type) 1-wire type Low-leakage current type	IP2X	1.1
		AJ65SBTB2-8T	Output 8 points: 12/24 V DC (0.5 A) Transistor output (sink type) 2-wire type	IP2X	1.1
		AJ65SBTB2-8T1	Output 8 points: 12/24 V DC (0.5 A) Transistor output (sink type) 2-wire type Low-leakage current type	IP2X	1.
		AJ65SBTB1-16T	Output 16 points: 12/24 V DC (0.5 A) Transistor output (sink type) 1-wire type	IP2X	1.
		AJ65SBTB1-16T1	Output 16 points: 12/24 V DC (0.5 A) Transistor output (sink type) 1-wire type Low-leakage current type	IP2X	1.
		AJ65SBTB2-16T	Output 16 points: 12/24 V DC (0.5 A) Transistor output (sink type) 2-wire type	IP2X	1.
		AJ65SBTB2-16T1	Output 16 points: 12/24 V DC (0.5 A) Transistor output (sink type) 2-wire type Low-leakage current type	IP2X	1.
		AJ65SBTB1-32T	Output 32 points: 12/24 V DC (0.5 A) Transistor output (sink type) 1-wire type	IP2X	1.
		AJ65SBTB1-32T1	Output 32 points: 12/24 V DC (0.5 A) Transistor output (sink type) 1-wire type Low-leakage current type	IP2X	1.
		AJ65SBTB1-8TE	Output 8 points: 12/24 V DC (0.1 A) Transistor output (source type) 1-wire type	IP2X	1.1
		AJ65SBTB1-16TE	Output 16 points: 12/24 V DC (0.1 A) Transistor output (source type) 1-wire type	IP2X	1.
		AJ65SBTB1B-16TE1	Output 16 points: 12/24 V DC (0.5 A) Transistor output (source type) 1-wire type	IP2X	1.
		AJ65SBTB1-32TE1	Output 32 points: 12/24 V DC (0.5 A) Transistor output (source type) 1-wire type	IP2X	1.1
		AJ65SBTB2N-8R	Output 8 points: 24 V DC/240 V AC (2 A) Relay output 2-wire type	IP1X	1.1
		AJ65SBTB2N-16R	Output 16 points: 24 V DC/240 V AC (2 A) Relay output 2-wire type	IP1X	1.
		AJ65SBTB2N-8S	Output 8 points: 100240 V AC (0.6 A) Triac output 2-wire type	IP1X	1.
		AJ65SBTB2N-16S	Output 16 points: 100240 V AC (0.6 A) Triac output 2-wire type	IP1X	1.
emote	Screw terminal block type	AJ65SBTB32-8DT	Input 4 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms	IP2X	1.1
O module	,		Output 4 points: 24 V DC (0.5 A) Transistor output (sink type) 2-wire type		
		AJ65SBTB32-8DT2	Input 4 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms	IP2X	1.1
			Output 4 points: 24 V DC (0.5 A) Transistor output (sink type) 2-wire type Low-leakage current type		
		AJ65SBTB1-16DT	Input 8 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms	IP2X	1.1
		AJ65SBTB1-16DT	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type	IP2X	1.1
		AJ65SBTB1-16DT	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms	IP2X	
			Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type		
			Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms		1.
		AJ65SBTB1-16DT1	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Low-leakage current type	IP2X	1.
		AJ65SBTB1-16DT1	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms	IP2X	1.1
		AJ65SBTB1-16DT1 AJ65SBTB1-16DT2	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type 1 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 1-wire type 1-wire type Low-leakage current type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms	IP2X IP2X	1.1
		AJ65SBTB1-16DT1 AJ65SBTB1-16DT2	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms	IP2X IP2X	1.1
		AJ65SBTB1-16DT1 AJ65SBTB1-16DT2 AJ65SBTB1-16DT3	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms	IP2X IP2X IP2X	1.1
		AJ65SBTB1-16DT1 AJ65SBTB1-16DT2 AJ65SBTB1-16DT3	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms	IP2X IP2X IP2X	1.1
		AJ65SBTB1-16DT1 AJ65SBTB1-16DT2 AJ65SBTB1-16DT3 AJ65SBTB32-16DT	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 2-wire type Input 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms	IP2X IP2X IP2X IP2X	1.1
		AJ65SBTB1-16DT1 AJ65SBTB1-16DT2 AJ65SBTB1-16DT3 AJ65SBTB32-16DT	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type B points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 2-wire type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 2-wire type 8 points: 24 V DC (D.5 A) Transistor output (sink type) 2-wire type Low-leakage current type Input 16 points: 24 V DC (D.5 A) Transistor output (sink type) 2-wire type Low-leakage current type Input 16 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms	IP2X IP2X IP2X IP2X	1.1
		AJ65SBTB1-16DT1 AJ65SBTB1-16DT2 AJ65SBTB1-16DT3 AJ65SBTB32-16DT AJ65SBTB32-16DT2	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 2-wire type Low-leakage current type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 2-wire type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 2-wire type Input 16 points: 24 V DC (D.5 A) Transistor output (sink type) 2-wire type Low-leakage current type Input 16 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 16 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Input 16 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type	IP2X IP2X IP2X IP2X IP2X	1.1 1.1 1.1 1.1 1.1
		AJ65SBTB1-16DT1 AJ65SBTB1-16DT2 AJ65SBTB1-16DT3 AJ65SBTB32-16DT AJ65SBTB32-16DT2	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 0.2 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 1-wire type 2-wire type Low-leakage current type Input 16 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms	IP2X IP2X IP2X IP2X IP2X	1.1 1.1 1.1 1.1
		AJ65SBTB1-16DT1 AJ65SBTB1-16DT2 AJ65SBTB1-16DT3 AJ65SBTB32-16DT AJ65SBTB32-16DT2 AJ65SBTB1-32DT	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 1-wire type 2-wire type Low-leakage current type Input 16 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms	IP2X IP2X IP2X IP2X IP2X IP2X	1.1 1.1 1.1 1.1
		AJ65SBTB1-16DT1 AJ65SBTB1-16DT2 AJ65SBTB1-16DT3 AJ65SBTB32-16DT AJ65SBTB32-16DT2 AJ65SBTB1-32DT	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms	IP2X IP2X IP2X IP2X IP2X IP2X	1.1 1.1 1.1 1.1 1.1 1.1
		AJ65SBTB1-16DT1 AJ65SBTB1-16DT2 AJ65SBTB1-16DT3 AJ65SBTB32-16DT AJ65SBTB32-16DT2 AJ65SBTB1-32DT AJ65SBTB1-32DT1	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms	IP2X IP2X IP2X IP2X IP2X IP2X IP2X IP2X	1.7 1.7 1.7 1.7 1.7 1.7 1.7
		AJ65SBTB1-16DT1 AJ65SBTB1-16DT2 AJ65SBTB1-16DT3 AJ65SBTB32-16DT AJ65SBTB32-16DT2 AJ65SBTB1-32DT AJ65SBTB1-32DT1	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 2-wire type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 2-wire type Input 8 points: 24 V DC (D.5 A) Transistor output (sink type) 2-wire type Low-leakage current type Input 16 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 16 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Input 16 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Input 16 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Input 16 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Input 16 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Input 16 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Input 16 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 16 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 16 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 16 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 16 points: 24 V DC (D.5 A) Transistor output (sink type) 1-wire type Low-leakage current type	IP2X IP2X IP2X IP2X IP2X IP2X IP2X IP2X	1.7 1.7 1.7 1.7 1.7 1.7
		AJ65SBTB1-16DT1 AJ65SBTB1-16DT2 AJ65SBTB1-16DT3 AJ65SBTB32-16DT AJ65SBTB32-16DT2 AJ65SBTB1-32DT AJ65SBTB1-32DT1 AJ65SBTB1-32DT2	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (DS A) Transistor output (sink type) 2-wire type Low-leakage current type Input 8 points: 24 V DC (DS A) Transistor output (sink type) 2-wire type Input 8 points: 24 V DC (DS A) Transistor output (sink type) 2-wire type Low-leakage current type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Low-leakage current type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Low-leakage current type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Low-leakage current type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Low-leakage current type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Low-leakage current type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Low-leakage current type	IP2X IP2X IP2X IP2X IP2X IP2X IP2X IP2X	1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7
		AJ65SBTB1-16DT1 AJ65SBTB1-16DT2 AJ65SBTB1-16DT3 AJ65SBTB32-16DT AJ65SBTB32-16DT2 AJ65SBTB1-32DT AJ65SBTB1-32DT1 AJ65SBTB1-32DT2	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (DS A) Transistor output (sink type) 2-wire type Low-leakage current type Input 8 points: 24 V DC (DS A) Transistor output (sink type) 2-wire type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 2-wire type Low-leakage current type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 2-wire type Low-leakage current type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Low-leakage current type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Low-leakage current type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Low-leakage current type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Low-leakage current type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Low-leakage current type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Low-leakage current type Input 16 points: 24 V DC (DS A) Transistor output (sink type) 1-wire type Low-	IP2X IP2X IP2X IP2X IP2X IP2X IP2X IP2X	12 12 12 12 12 12 12 12 12 12 12 12 12 1
		AJ65SBTB1-16DT1 AJ65SBTB1-16DT2 AJ65SBTB1-16DT3 AJ65SBTB32-16DT AJ65SBTB32-16DT2 AJ65SBTB1-32DT1 AJ65SBTB1-32DT1 AJ65SBTB1-32DT2 AJ65SBTB1-32DT3	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 0.2 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms	IP2X IP2X IP2X IP2X IP2X IP2X IP2X IP2X	12 12 12 12 12 12 12 12 12 12 12 12 12 1
		AJ65SBTB1-16DT1 AJ65SBTB1-16DT2 AJ65SBTB1-16DT3 AJ65SBTB32-16DT AJ65SBTB32-16DT2 AJ65SBTB1-32DT1 AJ65SBTB1-32DT1 AJ65SBTB1-32DT2 AJ65SBTB1-32DT3	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 leakage current type Input 16 points	IP2X IP2X IP2X IP2X IP2X IP2X IP2X IP2X	12 12 12 12 12 12 12 12 12 12 12 12 12 1
		AJ65SBTB1-16DT1 AJ65SBTB1-16DT2 AJ65SBTB1-16DT3 AJ65SBTB32-16DT AJ65SBTB32-16DT2 AJ65SBTB1-32DT AJ65SBTB1-32DT1 AJ65SBTB1-32DT2 AJ65SBTB1-32DT2 AJ65SBTB1-32DT3 AJ65SBTB1-32CDT3	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms witching type Input 16 points: 24 V DC (p	IP2X IP2X IP2X IP2X IP2X IP2X IP2X IP2X	1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1
		AJ65SBTB1-16DT1 AJ65SBTB1-16DT2 AJ65SBTB1-16DT3 AJ65SBTB32-16DT AJ65SBTB32-16DT2 AJ65SBTB1-32DT AJ65SBTB1-32DT1 AJ65SBTB1-32DT2 AJ65SBTB1-32DT2 AJ65SBTB1-32DT3 AJ65SBTB1-32CDT3	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (0.5 A) Transistor output (sink type) 2-wire type Low-leakage current type Input 8 points: 24 V DC (0.5 A) Transistor output (sink type) 2-wire type Input 8 points: 24 V DC (0.5 A) Transistor output (sink type) 2-wire type Low-leakage current type Input 16 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 16 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 16 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Resp	IP2X IP2X IP2X IP2X IP2X IP2X IP2X IP2X	1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5
		AJ65SBTB1-16DT1 AJ65SBTB1-16DT2 AJ65SBTB1-16DT3 AJ65SBTB32-16DT2 AJ65SBTB32-16DT2 AJ65SBTB1-32DT1 AJ65SBTB1-32DT1 AJ65SBTB1-32DT2 AJ65SBTB1-32DT3 AJ65SBTB1-32DT3 AJ65SBTB1-32DTE1	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Input 8 points: 24 V DC (0.5 A) Transistor output (sink type) 1-wire type Low-leakage current type Input 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 8 points: 24 V DC (positive common) 3-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 1.5 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Output 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms witching type Input 16 points: 24 V DC (p	IP2X IP2X IP2X IP2X IP2X IP2X IP2X IP2X	122 123 124 125 127 127 127 128 129 129

^{*1:} This is the CC-Link version supported by each module. For the CC-Link version supported by the system and its combinations, etc., please refer to the manual of the master station.

CC-Link Related Product Model Names

Mitsubishi Electric Corporation

	Туре	Model	Specifications	Protection level	CC-I versi
		AJ65DBTB1-32D	Input 32 points: 24 V DC (positive/negative common shared) 1-wire type Response time 10 ms	IP2X	1.1
		AJ65DBTB1-32T1	Output 32 points: 12/24 V DC (0.5 A) Transistor output (sink type) 1-wire type Low-leakage current type	IP2X	1.1
		AJ65DBTB1-32R	Output 32 points: 24 V DC/240 V AC (2 A) Relay output 1-wire type	IP1X	1.1
	A2C form		Input 16 points: 24 V DC (positive common) Response time 10 ms		
	terminal block type	AJ65DBTB1-32DT1	Output 16 points: 12/24 V DC (0.5 A) Transistor output (sink type) 1-wire type	IP2X	1.1
			Input 16 points: 24 V DC (positive/negative common shared) Response time 10 ms		
		AJ65DBTB1-32DR	Output 16 points: 24 V DC/240 V AC (2 A) Relay output 1-wire type	IP1X	1.1
	Spring clamp terminal block	AJ65ABTP3-16D	Input 16 points: 24 V DC/6 mA (positive common) 3-wire type Response time 1.5 ms, with Diagnostic Functions *2	IP1XB	1.1
	push-in type	AJ65ABTP3-16DE	Input 16 points: 24 V DC/6 mA (negative common) 3-wire type Response time 1.5 ms, with Diagnostic Functions *2	IP1XB	1.
	pacit in type	AJ65VBTS3-16D	Input 16 points: 24 V DC/5 mA (negative common) 3-wire type Response time 1.5 ms	IP1XB	1.
		AJ65VBTS3-32D	Input 32 points: 24 V DC/5 mA (negative common) 3-wire type Response time 1.5 ms	IP1XB	1.
		AJ65VBTS2-16T	Output 16 points: 12/24 V DC (0.5 A) Transistor output (sink type) 2-wire type	IP1XB	1.
	Spring clamp	AJ65VBTS2-32T	Output 32 points: 12/24 V DC (0.5 A) Transistor output (sink type) 2-wire type	IP1XB	1.
	terminal block type	A003VD132-321		11 170	 '
	terminal block type	AJ65VBTS32-16DT		IP1XB	1.
			Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 2-wire type		
		AJ65VBTS32-32DT	Input 16 points: 24 V DC/5 mA (positive common) 3-wire type Response time 1.5 ms	IP1XB	1
		4 105 VDT050 0D	Output 16 points: 12/24 V DC (0.5 A) Transistor output (sink type) 2-wire type	ID (VD	١.
Romoto	Sensor connector type	AJ65VBTCE3-8D	Input 8 points: 24 V DC/5 mA (positive common) 3-wire type Response time 1.5 ms	IP1XB	1
		AJ65VBTCE3-16D	Input 16 points: 24 V DC/5 mA (positive common) 3-wire type Response time 1.5 ms	IP1XB	1
		AJ65VBTCE3-32D	Input 32 points: 24 V DC/5 mA (positive common) 3-wire type Response time 1.5 ms	IP1XB	-
		AJ65VBTCE3-16DE	Input 16 points: 24 V DC/5 mA (negative common) 3-wire type Response time 1.5 ms	IP1XB	1
		AJ65VBTCE3-32DE	Input 32 points: 24 V DC/5 mA (negative common) 3-wire type Response time 1.5 ms	IP1XB	1
		AJ65VBTCE2-8T	Output 8 points: 12/24 V DC (0.1 A) Transistor output (sink type) 2-wire type	IP1XB	
		AJ65VBTCE2-16T	Output 16 points: 12/24 V DC (0.1 A) Transistor output (sink type) 2-wire type	IP1XB	1
		AJ65VBTCE3-16TE	Output 16 points: 12/24 V DC (0.1 A) Transistor output (source type) 3-wire type	IP1XB	-
		AJ65VBTCE32-16DT	Input 8 points: 24 V DC/5 mA (positive common) 3-wire type Response time 1.5 ms	IP1XB	١,
module			Output 8 points: 24 V DC (0.1 A) Transistor output (sink type) 2-wire type	ILIVD	Ι΄
		A 105 VPTOF00 00PT	Input 16 points: 24 V DC/5 mA (positive common) 3-wire type Response time 1.5 ms	IP1XB	1
		AJ65VBTCE32-32DT	Output 16 points: 24 V DC (0.1 A) Transistor output (sink type) 2-wire type	IPIAD	Ι΄
Remote /O module	AJ	A ISEVETOES SOFTE	Input 16 points: 24 V DC/5 mA (negative common) 3-wire type Response time 1.5 ms	10.440	1
		AJ65VBTCE3-32DTE	Output 16 points: 24 V DC (0.1 A) Transistor output (source type) 3-wire type	IP1XB	
		AJ65VBTCU3-16D1	Input 16 points: 24 V DC (positive common) 3-wire type Response time 0.2 ms	IP1XB	Ι.
		AJ65SBTC4-16DN	Input 16 points: 24 V DC (positive common) 4-wire type Response time 1.5 ms	IP2X	T
		AJ65SBTC4-16DE	Input 16 points: 24 V DC (negative common) 4-wire type Response time 1.5 ms	IP2X	١.
		AJ65SBTC1-32D	Input 32 points: 24 V DC (positive/negative common shared) 1-wire type Response time 1.5 ms	IP2X	r
		AJ65SBTC1-32D1	Input 32 points: 24 V DC (positive/negative common shared) 1-wire type Response time 0.2 ms	IP2X	r
		AJ65VBTCU2-8T	Output 8 points: 12/24 V DC (0.1 A) Transistor output (sink type) 2-wire type	IP1XB	١.
	One-touch connector type	AJ65VBTCU2-16T	Output 16 points: 12/24 V DC (0.1 A) Transistor output (sink type) 2-wire type	IP1XB	T-
		AJ65SBTC1-32T1	Output 32 points: 12/24 V DC (0.1 A) Transistor output (sink type) 1-wire type Low-leakage current type	IP2X	T.
			Input 8 points: 24 V DC (positive common) 4-wire type Response time 1.5 ms	11 2/	Т
		AJ65SBTC4-16DT2	Output 8 points: 24 V DC (0.5 A) Transistor output (sink type) 4-wire type Low-leakage current type	IP2X	'
			Input 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms		
		AJ65SBTC1-32DT3	Output 16 points: 24 V DC (0.1 A) Transistor output (sink type) 1-wire type Low-leakage current type	IP2X	1
		AJ65SBTCF1-32D	Input 32 points: 24 V DC (positive/negative common shared) 1-wire type Response time 1.5 ms	IP2X	1
		AJ65SBTCF1-32T		IP2X	1
		7003001011-021	Output 32 points: 12/24 V DC (0.1 A) Transistor output (sink type) 1-wire type		T
		AJ65SBTCF1-32DT	Input 16 points: 24 V DC (positive/negative common shared) 1-wire type Response time 1.5 ms	IP2X	1
	40-pin connector type		Output 16 points: 12/24 V DC (0.1 A) Transistor output (sink type) 1-wire type		-
		AJ65VBTCF1-32DT1	Input 16 points: 24 V DC (positive/negative common shared) 1-wire type Response time 0.2 ms	IP1XB	1
			Output 16 points: 12/24 V DC (0.1 A) Transistor output (sink type) 1-wire type		\vdash
		AJ65VBTCFJ1-32DT1	Input 16 points: 24 V DC (positive common) 1-wire type Response time 0.2 ms Shared power supply for module and I/O parts	IP1XB	1
		1	Output 16 points: 24 V DC (0.1 A) Transistor output (sink type) 1-wire type		1

^{*} Positive common: sink type, negative common: source type
*1: This is the CC-Link version supported by each module. For the CC-Link version supported by the system and its combinations, etc., please refer to the manual of the master station.
*2: These modules are used as remote device stations.

	Туре)	Model	Specifications	Protection level	CC-Link version*1
			AJ65FBTA4-16D	Input 16 points: 24 V DC (positive common) 4-wire type Response time 1.5 ms	IP67	1.10
			AJ65FBTA4-16DE	Input 16 points: 24 V DC (negative common) 4-wire type Response time 1.5 ms	IP67	1.10
			AJ65FBTA2-16T	Output 16 points: 12/24 V DC (0.5 A) Transistor output (sink type) 2-wire type	IP67	1.10
Remote	Matararas	connector type	AJ65FBTA2-16TE	Output 16 points: 12/24 V DC (1.0 A) Transistor output (source type) 2-wire type	IP67	1.10
I/O module	waterproof	connector type	A 1055DTA 40 40DT	Input 8 points: 24 V DC (positive common) 4-wire type Response time 1.5 ms	IP67	1.10
			AJ65FBTA42-16DT	Output 8 points: 24 V DC (0.5 A) Transistor output sink type 2-wire type	IP6/	1.10
			AJ65FBTA42-16DTE	Input 8 points: 24 V DC (negative common) 4-wire type Response time 1.5 ms	IP67	1.10
			AJ65FB1A42-16D1E	Output 8 points: 24 V DC (1.0 A) Transistor output (source type) 2-wire type	IP6/	1.10
Safety relay	Spring clamp terminal block type Voltage/current inp Screw terminal Temperature inp		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	1.10
module	terminal blo	ck type	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	1.10
		Voltago/current input	AJ65SBT-64AD	4-channel voltage input: -1010 V DC/-40004000 current input: 020 mA DC/04000	IP2X	1.10
	Carau	voltage/current input	AJ65SBT2B-64AD	4-channel voltage input: -1010 V DC/-1600016000 current input: 020 mA DC/016000	IP2X	1.10
		Temperature input	AJ65SBT2B-64TD	4-channel Thermocouple (B, R, S, K, E, J, T, N) input	IP2X	1.10
Analog	block type		AJ65SBT2B-64RD3	4-channel 3-wire type RTD (Pt100, JPt100, Ni100) input	IP2X	1.10
module	ыоск туре	Voltage/current	AJ65SBT-62DA	2-channel voltage output: -40004000/-1010 V DC current output: 04000/020 mA DC	IP2X	1.10
module		output	AJ65SBT2B-64DA	4-channel voltage output: -1600016000/-1010 V DC current output: 012000/020 mA DC	IP2X	1.10
	One-touch	Voltage input	AJ65VBTCU-68ADVN	8-channel voltage input: -1010 V DC/-40004000	IP1XB	2.00
	connector	Current input	AJ65VBTCU-68ADIN	8-channel current input: 020 mA DC/04000	IP1XB	2.00
	type	Voltage output	AJ65VBTCU-68DAVN	8-channel voltage output: -40004000/-1010 V DC	IP1XB	2.00
High apon	d counter me	dulo	AJ65BT-D62	2-channel count input: 5/12/24 V DC, preset input: 5/12/24 V DC	IP2X	1.10
night-speed	a counter mo	uule	AJ65BT-D62D	2-channel count input: differential type line driver, preset input: 5/12/24 V DC	IP2X	1.10
RS-232 int	terface modul	е	AJ65BT-R2N	RS-232 1-channel, with/ DC input 2 points Transistor output 2 points	IP2X	1.10
EV Carias	interfoce bloc	de	FX3U-64CCL	Interface block for FX3G, FX3U, FX3GC, FX3UC Series	-	2.00
FX Series	interface bloc	;K	FX2N-32CCL	Interface block for FX3G, FX3U, FX3GC, FX3UC Series	-	1.00
WS Series	interface mo	dule	WS0-GCC100202	Interface module for Safety controller	-	1.10
Notwork in	torfood boors	1	Q80BD-J61BT11N	For PCI bus slot: master station, standby master station or local station	-	2.00
Network iii	iteriace board		Q81BD-J61BT11	For PCI Express® bus slot: master station, standby master station or local station	-	2.00
	Repeater h	ıb modulo	AJ65FBTA-RPH	8-port star wiring hub module with repeater function, low profile waterproof type	IP67	1.10
	nepeater iii	ub module	AJ65BTS-RPH	8-port star wiring hub module with repeater function, spring clamp terminal block type	IP2X	1.10
Deposter	Repeater m	odule (T-branch)	AJ65SBT-RPT	T-branch module with repeater function	IP2X	1.10
•	Ontical range	eater module	AJ65SBT-RPS	For SI/QSI type fiber cable (Use 2 modules as a set)	IP2X	1.10
module	Орисанере	ater module	AJ65SBT-RPG	For GI type fiber cable (Use 2 modules as a set)	IP2X	1.10
	Space option	al repeater	AJ65BT-RPI-10A	AJ65BT-RPI-10A and AJ65BT-RPI-10B used as a pair, 156 k/625 k/2.5 Mbps supported	IP2X	1.10
Repeater module O	module		AJ65BT-RPI-10B	AUDUDT-NET-TUM and AUDUDT-NET-TUD used as a pair, 130 k/023 k/2.3 MDps supported	IP2X	1.10

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

Mitsubishi Electric Engineering Co., Ltd.

	Туре	Model	Specifications	Protection level	CC-Link version*1
H	landy line tester	EHLT02	Handy line tester for CC-Link	IP2X	2.00

^{*1:} This is the CC-Link version supported by each module. For the CC-Link version supported by the system and its combinations, etc., please refer to the manual of the master station.

CC-Link Related Product Model Names

Optional parts for I/O modules

■ One-touch connector plugs

Time	Model	Specifications			
Type	Model	Cover color	Core wire size of applicable cable	Core wire size of applicable cable	Maximum rated current
	A6CON-P214	Transparent	0.140.2 mm ² (2624 AWG)	φ1.01.4 mm	2 A*2
	(33104-6000FL*1)	типоратот			
One-touch connector plug	A6CON-P220	Yellow		φ1.42.0 mm	
	(33104-6100FL*1)	Tellow			
(20 pcs)	A6CON-P514	Red		φ1.01.4 mm	3 A*2
	(33104-6200FL*1)		0.30.5 mm ²		
	A6CON-P520	Blue	(2220 AWG)	φ1.42.0 mm	
	(33104-6300FL*1)	Dide		Ψ1.42.0 IIIII	
One-touch connector plug	A6CON-L5P	Communication line: 0.5 mm², 20 AWG, Shielded cable: 0.5 mm², 20 AWG			
for communication (10 pcs)	(35505-6000-B0M GF*1)	Applicable cable size (diameter): φ 2.23.0 mm			
	A6CON-PW5P	Core wire size of a	Core wire size of applicable cable: 0.75 mm ² (0.660.98 mm ²), 18 AWG, 0.16 mm or larger for strand diameter, Insulating coating		
One-touch connector plug	(35505-6080-A00 GF*1)	material PVC (heat resistant vinyl), Outer diameter of applicable cable: φ2.23.0 mm, Maximum rated current: 7 A*2			
for power supply and FG (10 pcs)	A6CON-PW5P-SOD	Core wire size of applicable cable: 0.75 mm² (0.660.98 mm²), 18 AWG, 0.16 mm or larger for strand diameter, Insulating coating			
	(35505-6180-A00 GF*1)	material PVC (heat resistant vinyl), Outer diameter of applicable cable: \$\varphi 2.02.3\$ mm, Maximum rated current: 7 A*2			
One-touch connector plug	A6CON-TR11N				
with terminating resistor (1 pc)*3	ACCON-TRITIN	One-touch connector plug for communication with terminating resistor (110 Ω) (built-in type)			

■ Online connector

Type	Model	Specifications
Online connector for	A6CON-LJ5P	Online connector for communication F. pole (40 pin)
communication (5 pcs)	(35720-L200-B00 AK*1)	Online connector for communication, 5-pole (10-pin)
Online connector for power	A6CON-PWJ5P	Online connector for power supply, FG 5-pole (10-pin)
supply and FG (5 pcs)	(35720-L200-A00 AK*1)	Offine connector for power supply, FG 5-pole (10-pin)

■ Protective cover for remote I/O module

Type	Model	Applicable module		
Protective cover	A6CVR-8	AJ65SBTB1-8D, AJ65SBTB1-8T, AJ65SBTB1-8TE, AJ65SBT-RPT, AJ65SBTB1-8T1		
for 8-point module (10 pcs)	A6CVR-VCE8	AJ65VBTCE3-8D, AJ65VBTCE2-8T		
	A6CVR-16	AJ65SBTB1-16D, AJ65SBTB1-16D1, AJ65SBTC1-32D, AJ65SBTC1-32D1, AJ65SBTB3-8D, AJ65SBTB2N-8A,		
Protective cover for		AJ65SBTB1-16T, AJ65SBTB1-16T1, AJ65SBTB2-8T,AJ65SBTB1-16TE, AJ65SBTB2N-8R, AJ65SBTB2N-8S, AJ65SBTB1-16DT,		
16-point module		AJ65SBTB1-16DT1, AJ65SBTB32-8DT, AJ65SBT-RPG, AJ65SBT-RPS, AJ65SBTC4-16DN, AJ65SBTC4-16DE, AJ65SBTB2-8T1,		
(10 pcs)		AJ65SBTB1-16DT2, AJ65SBTC1-32DT3, AJ65SBTC4-16DT2, AJ65SBTB1-16DT3, AJ65SBTB32-8DT2		
	A6CVR-VS16	AJ65VBTS3-16D, AJ65VBTS2-16T, AJ65VBTS32-16DT		
	A6CVR-VCE16	AJ65VBTCE3-16D, AJ65VBTCE2-16T, AJ65VBTCE32-16DT, AJ65VBTCE3-16DE, AJ65VBTCE3-16TE		
Protective cover for 32-point module (10 pcs)		AJ65SBTB1-32D, AJ65SBTB1-32D1, AJ65SBTB3-16D, AJ65SBTB2N-16A, AJ65SBTB1-32T, AJ65SBTB1-32T1,		
	A6CVR-32	AJ65SBTB2-16T, AJ65SBTB2N-16R, AJ65SBTB2N-16S, AJ65SBTB1-32DT, AJ65SBTB1-32DT1, AJ65SBTB32-16DT,		
		AJ65SBTB2N-16R, AJ65SBTB2-16T1, AJ65SBTB1-32DT3, AJ65SBTB32-16DT2, AJ65SBTB1-32DT2		

■ Protective cap for unused connector

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

■ 40-pin connector

_ 10			
Туре	Model	Specifications	
	A6CON1	Solder type (straight-out type)	
40-pin connector (1 pc)	A6CON2	Crimp type (straight-out type)	
	A6CON3	IDC type (flat cable type)	
	A6CON4	Solder type (straight-out/diagonal-out type)	

CC-Link Safety Related Product Model Names

Mitsubishi Electric Corporation

Туре		Model	Specifications		
Master module		QS0J61BT12	Maximum number of stations: 64 stations (maximum of 42 safety stations) Safety station information management		
	Screw/2-piece	QS0J65BTB2-12DT	Safety input: 8 points (dual input), 16 points (single input)	IP2X	
Remote I/O	terminal block type	Q30003D1D2-12D1	Safety output: 4 points (source + sink type), 2 points (source + source type)	IFZA	
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	

^{*1:} Part model name (manufactured by 3M)

*2: Keep the current within the allowable of the connected cable.

*3: When the connector type remote I/O is used for the end station, be sure to use this.

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Country/Region Sales office Tel/Fax MITSUBISHI ELECTRIC AUTOMATION, INC. Tel: +1-847-478-2100 USA 500 Corporate Woods Parkway, Vernon Hills, IL 60061, U.S.A. Fax: +1-847-478-2253 MITSUBISHI ELECTRIC AUTOMATION, INC. Mexico Branch Tel: +52-55-3067-7512 Mexico Boulevard Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Ampliacion Granada, Miguel Hidalgo, Ciudad de Mexico, Mexico, C.P.115200 MITSUBISHI ELECTRIC DO BRASIL COMERCIO E SERVICOS LTDA. Tel: +55-11-4689-3000 Brazil Avenida Adelino Cardana, 293, 21 andar, Bethaville, Barueri SP, Brasil Fax: +55-11-4689-3016 MITSUBISHI ELECTRIC EUROPE B.V. German Branch Tel: +49-2102-486-0 Germany Mitsubishi-Electric-Platz 1, 40882 Ratingen, Germany Fax: +49-2102-486-7780 UK MITSUBISHI ELECTRIC EUROPE B.V. UK Branch Tel: +44-1707-28-8780 Fax: +44-1707-27-8695 Travellers Lane, UK-Hatfield, Hertfordshire, AL10 8XB, U.K. MITSUBISHI ELECTRIC EUROPE B.V. Irish Branch Tel: +353-1-4198800 Ireland Fax: +353-1-4198890 Westgate Business Park, Ballymount, Dublin 24, Ireland MITSUBISHI ELECTRIC EUROPE B.V. Italian Branch Tel: +39-039-60531 Italy Centro Direzionale Colleoni - Palazzo Sirio, Viale Colleoni 7, 20864 Agrate Brianza (MB), Italy Fax: +39-039-6053-312 Spain MITSUBISHI ELECTRIC EUROPE, B.V. Spanish Branch Tel: +34-935-65-3131 Carretera de Rubi, 76-80-Apdo. 420, E-08190 Sant Cugat del Valles (Barcelona), Spain Fax: +34-935-89-1579 MITSUBISHI ELECTRIC EUROPE B.V. French Branch Tel: +33-1-55-68-55-68 France 25, Boulevard des Bouvets, 92741 Nanterre Cedex, France Fax: +33-1-55-68-57-57 MITSUBISHI ELECTRIC EUROPE B.V. Czech Branch, Prague Office Tel: +420-255-719-200 Czech Republic Pekarska 621/7, 155 00 Praha 5, Czech Republic Poland MITSUBISHI ELECTRIC EUROPE B.V. Polish Branch Tel: +48-12-347-65-00 ul. Krakowska 48, 32-083 Balice, Poland MITSUBISHI ELECTRIC EUROPE B.V. (Scandinavia) Tel: +46-8-625-10-00 Sweden Hedvig Mollersgata 6, 223 55 Lund, Sweden Fax: +46-46-39-70-18 MITSUBISHI ELECTRIC (RUSSIA) LLC St. Petersburg Branch Russia Tel: +7-812-633-3497 Piskarevsky pr. 2, bld 2, lit "Sch", BC "Benua", office 720; 195027 St. Petersburg, Russia Fax: +7-812-633-3499 Turkey MITSUBISHI ELECTRIC TURKEY A.S. Umraniye Branch Tel: +90-216-969-2500 Serifali Mah. Kale Sok. No:41 34775 Umraniye - Istanbul, Turkey Fax: +90-216-661-4447 UAE MITSUBISHI ELECTRIC EUROPE B.V. Dubai Branch Tel: +971-4-3724716 Dubai Silicon Oasis, P.O.BOX 341241, Dubai, U.A.E. Fax: +971-4-3724721 South Africa ADROIT TECHNOLOGIES Tel: +27-11-658-8100 20 Waterford Office Park, 189 Witkoppen Road, Fourways, South Africa Fax: +27-11-658-8101 MITSUBISHI ELECTRIC AUTOMATION (CHINA) LTD. Tel: +86-21-2322-3030 China Mitsubishi Electric Automation Center, No.1386 Honggiao Road, Shanghai, China Fax: +86-21-2322-3000 SETSUYO ENTERPRISE CO., LTD. Tel : +886-2-2299-2499 Taiwan 6F, No.105, Wugong 3rd Road, Wugu District, New Taipei City 24889, Taiwan Fax: +886-2-2299-2509 MITSUBISHI ELECTRIC AUTOMATION KOREA CO., LTD. Tel: +82-2-3660-9569 Korea 7F to 9F, Gangseo Hangang Xi-tower A, 401, Yangcheon-ro, Gangseo-Gu, Seoul 07528, Korea Fax: +82-2-3664-8372 MITSUBISHI ELECTRIC ASIA PTE. LTD. Tel: +65-6473-2308 Singapore 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 Fax: +65-6476-7439 Thailand MITSUBISHI ELECTRIC FACTORY AUTOMATION (THAILAND) CO., LTD. Tel: +66-2682-6522-31 12th Floor, SV.City Building, Office Tower 1, No. 896/19 and 20 Rama 3 Road, Fax: +66-2682-6020 Kwaeng Bangpongpang, Khet Yannawa, Bangkok 10120, Thailand Vietnam MITSUBISHI ELECTRIC VIETNAM COMPANY LIMITED Tel: +84-28-3910-5945 Unit 01-04, 10th Floor, Vincom Center, 72 Le Thanh Ton Street, District 1, Ho Chi Minh City, Vietnam Fax: +84-28-3910-5947 Indonesia PT. MITSUBISHI ELECTRIC INDONESIA Tel: +62-21-31926461 Gedung Jaya 8th Floor, JL. MH. Thamrin No.12, Jakarta Pusat 10340, Indonesia Fax: +62-21-31923942 MITSUBISHI ELECTRIC INDIA PVT. LTD. Pune Branch Tel: +91-20-2710-2000 India Emerald House, EL-3, J Block, M.I.D.C., Bhosari, Pune-411026, Maharashtra, India Fax: +91-20-2710-2100 MITSUBISHI ELECTRIC AUSTRALIA PTY. LTD. Australia Tel: +61-2-9684-7777

MITSUBISHI ELECTRIC CORPORATION

348 Victoria Road, P.O. Box 11, Rydalmere, N.S.W 2116, Australia

HEAD OFFICE: TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN

www.MitsubishiElectric.com

Fax: +61-2-9684-7245