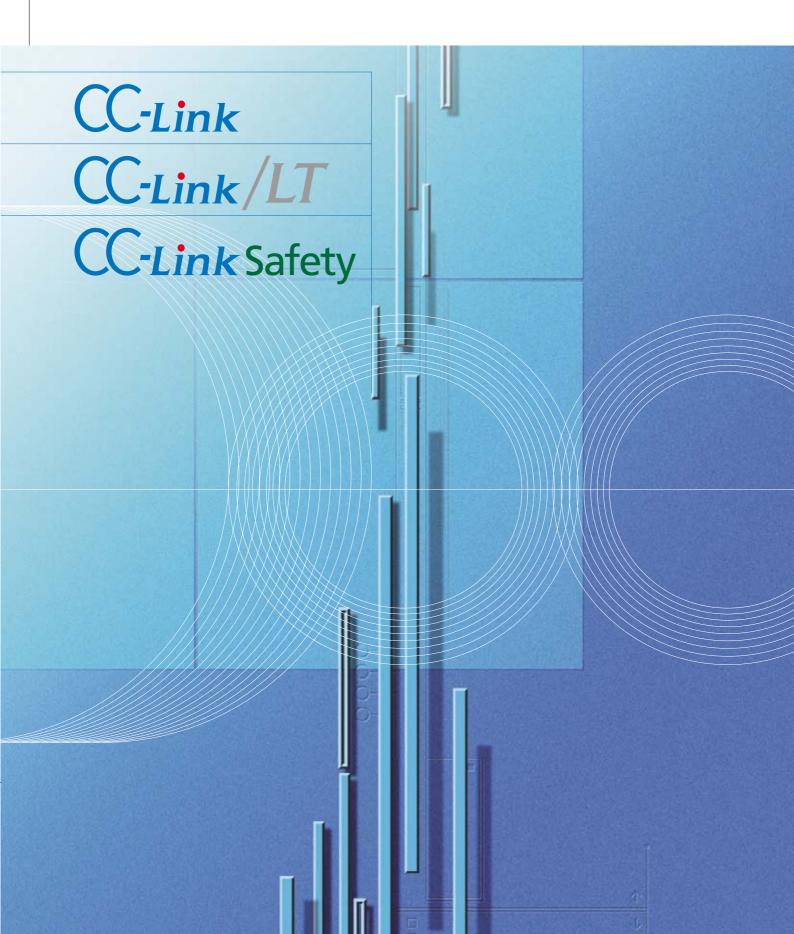






Open Field Network CC-Link Compatible Product Catalog



Strategic Network, CC-Link, CC-Link/LT & CC-Link Safety.

Strong Manufacturers Stay One Step Ahead of Others with CC-Link, CC-Link/LT & CC-Link Safety.



INDEX Concept — 3 to 22 Products <CC-Link> Master/local modules - 23 Remote I/O modules – 24 Safety relay modules – 29 Safety controller -- 29 Analog modules — - 30 Others — - 31

<CC-Link Safety>

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

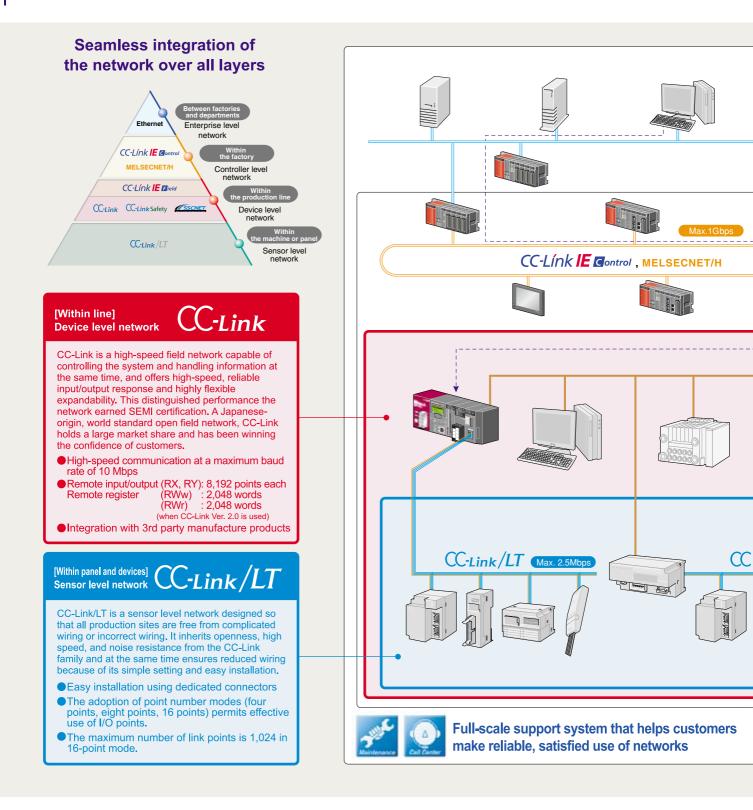
Let's Start Powerful Factor ation. Let's Connect with Power orks.

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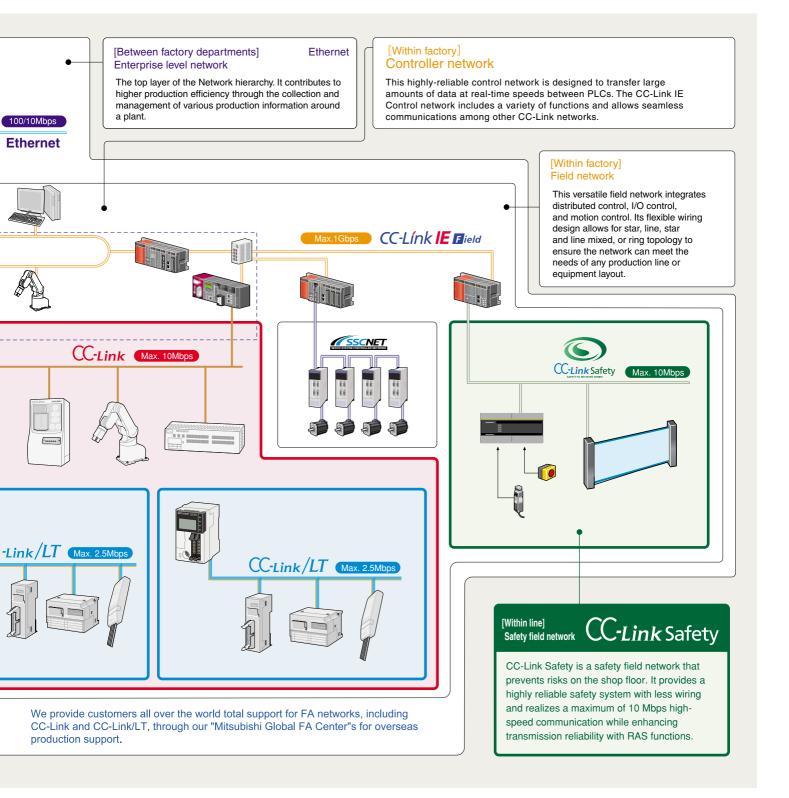


Opening up the Future of FA Networks and Focusing on what's

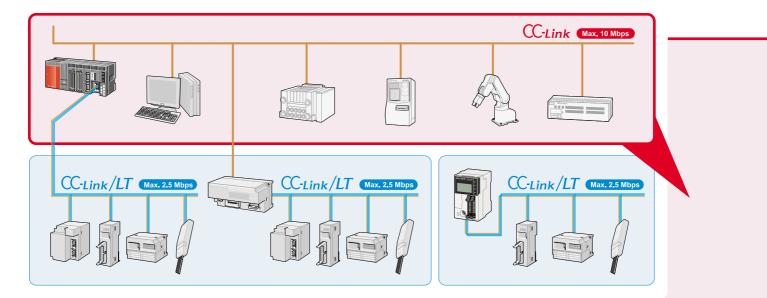
We provide total support in constructing seamless networks in all scenes, from offices to production sites, under a consistent design philosophy. With flexible approaches backed by "Ethernet," "MELSECNET/H" and "CC-Link", a SEMI-certified, world standard field network originated in Japan, and "CC-Link/LT",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



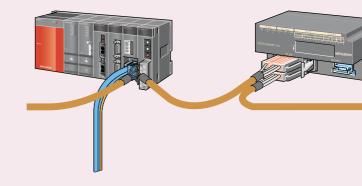
to come. Changes for the better - Mitsubishi Electric



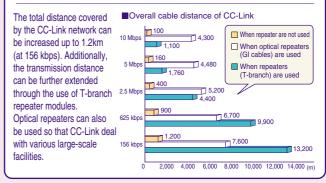
CC-Link - Proceeding toward a World Standard Network



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



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



CC-Link)

מרובי CC-Link Max. 10 Mbps A diverse range of products from partner manufacturers For improved network reliability [Multi-vendor system] [Consistent network communication time] More than 900 types of products are supplied from more CC-link guarantees the CC-Link Link Scan Time (at communication speed of 10 Mbps) than 1000 companies worldwide. fixed cyclic transmission 6 time and the cyclic (ms) transmission time is not 5 For non-stop operation [RAS functions] affected by irregular time 4 message transmission. scan CC-Link equips full RAS functionality by functions like Standby It is therefore possible to 3 Master, Automatic Return, Slave Station Isolation and Link achieve highly stable 2 Diagnostics/Link Status Confirmation. control. * RAS: Reliability, Availability, Serviceability -O- Remote I/O station only -O- Remote device station only 0 (when each station occupies 1 station) 0 20 40 60 Local node/intelligent device station only (when each station occupies 1 station) Number of modules [modules]

For improved setup efficiency [Simple parameter setup]

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

For achieving complex control, high-mix low-volume production [High-speed, high-capacity transmission]

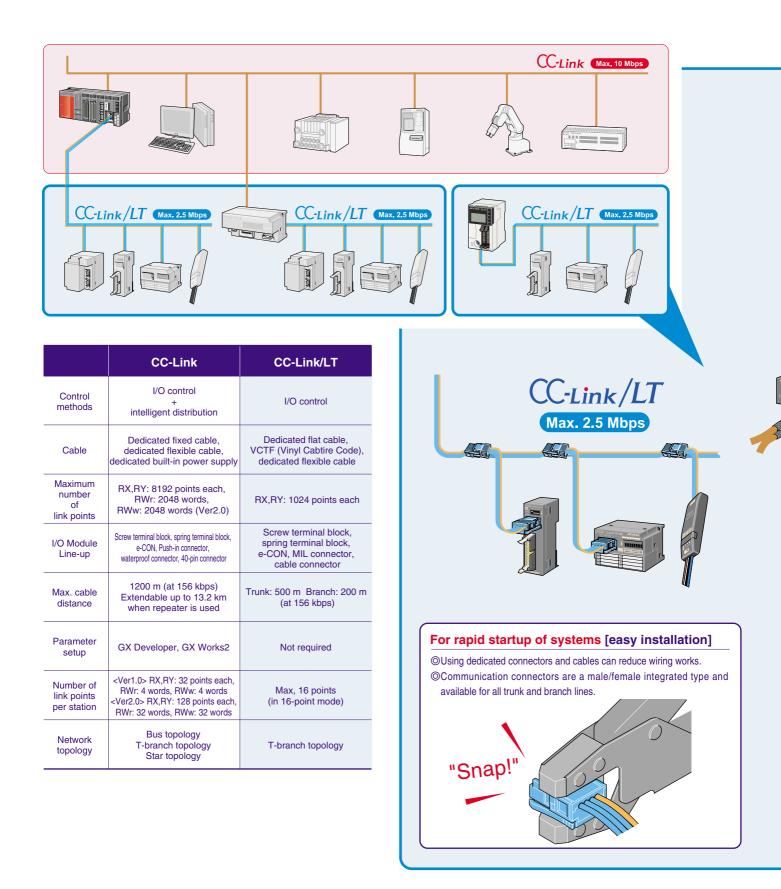
CC-Link is a high-performance network that utilizes high-speed communications (10 Mbps -top level in the industry-), in order to allow transmission of bit data and word data at high-speed and maximum capacity.

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

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



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



For Easy usage [No need of parameter settings]

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

For High noise-resistance [Complying with EMC Directives]

 $\mbox{CC-Link/LT}$ also inherits the feature of CC-Link, complies with EMC directives for noise-resistance.

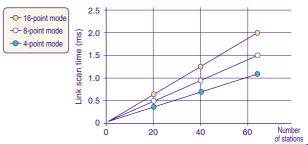
For Efficient use of I/O points [No wasting surplus I/O points]

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

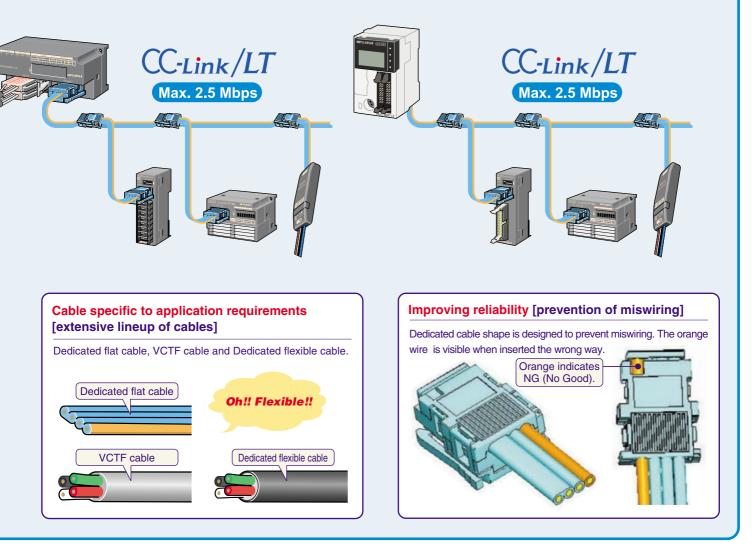
For high-speed control [fast response]

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

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



8

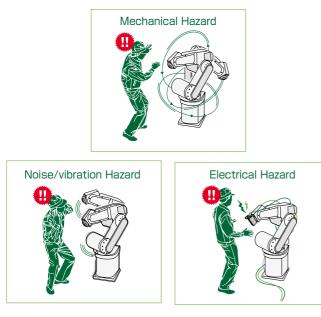


Innovation in shop floor safety, CC-Link Safety

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

CC-Link Safety



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



Safety solution example



World wide safety [International safety standards compliant]

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

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

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

Reliable safety control [Enhanced RAS functions]

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

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

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

Provision for troubles [Identifying the communication target station]

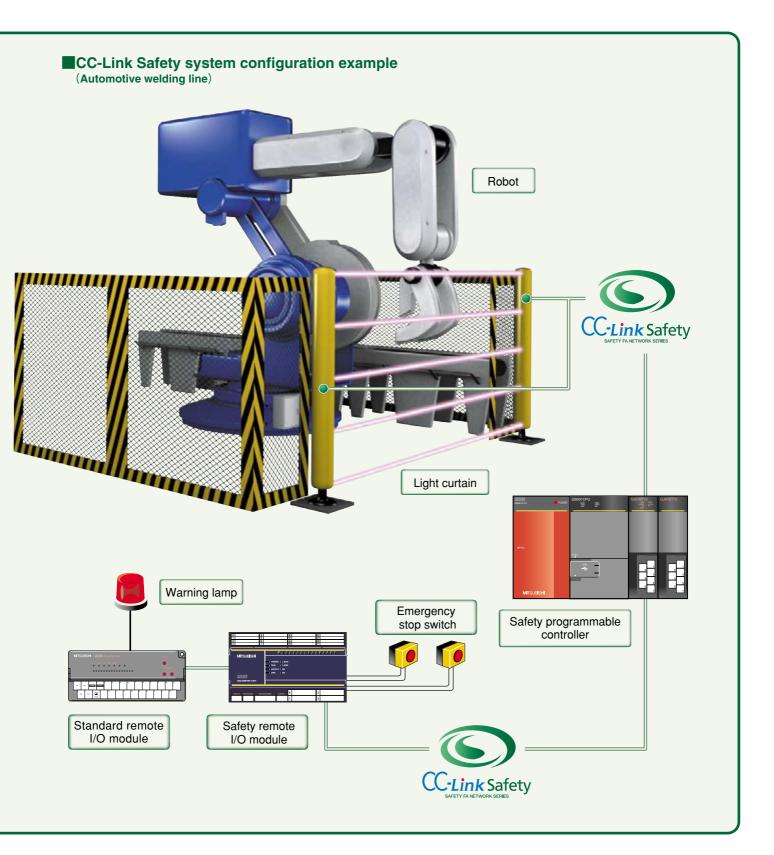
By setting the model name or product information of safety remote stations with the network parameters, the system can detect mismatch communication targets.

Flexible system configuration and wiring [Distributed safety remote stations]

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

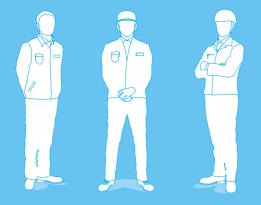
A large choice of safety system configuration [Various compatible products]

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



For hose in design, production and maintenance CC-Link & CC-Link/LT Responds

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



Each person in charge of engineering, production and maintenance has his/her own challenge. CC-Link and CC-Link/LT responds to each challenge with a solution. CC-Link is an establishined open field network originated from Japan. Fully inheriting the CC-Link concept, CC-Link/LT is specifically designed as a sensor level network.

"I want this."

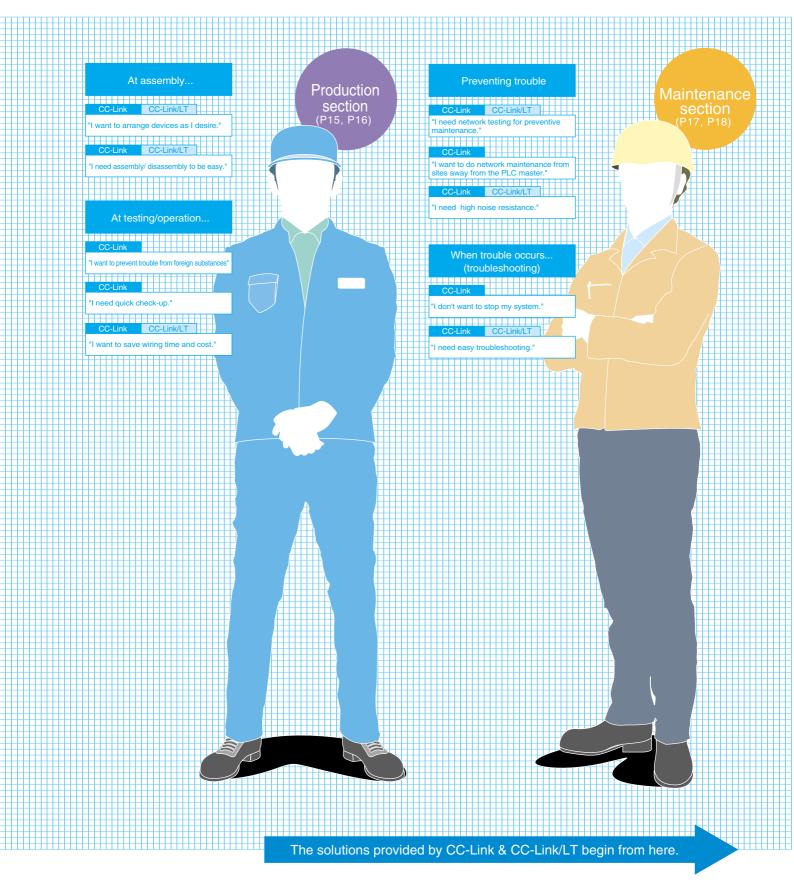
CC-Link Family

"I need this."

CC-Link & CC/Link/LT provides a function for each challenge on the network.



to Your Requests



Requests from the Engineering section: "Want to CC-Link & CC-Link/LT meets even more requests

CC-Link ensures...

"I want a flexible production system."

CC-Link Family

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

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

High-speed/High-capacity data transmission



<High-capacity Cyclic Transmission Data>

Data capacity Remote I/O (RX, RY)=8192 points each Remote register (RWw)=2048 words

(RWr)=2048 words (when Ver2.0 is used)

"I want to connect lots of analog devices."

► CC-*Link* V2 supports an extra broader range of needs.

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

CC-Link Ver2.0-compatible analog module CC-Link Ver1.0 Up to 21 modules can be connected. CC-Link V2 has double the module connection capacity Up to 42 modules can be connected.

"I need high-speed sensor inputs."

CC-Link/LT provides fast response.

on the transmission distance.

"I want to use remote I/O."

When 64 stations are connected, the link scan time is a maximum of

1.2ms (at 2.5Mbps). Select 2.5Mbps, 625kbps or 156kbps depending

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

There is no need to set the communication speed on the remote station.

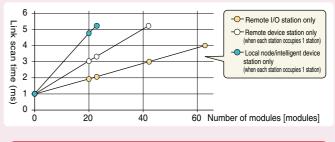
Troublesome network parameter setting is unnecessary. The communication speed setting is required for the master module only.

"I need complex control features."

CC-Link guarantee consistent communication time.

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

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

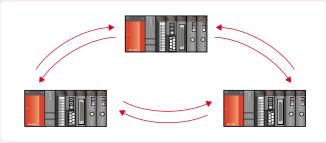


("I want a distributed control system."

CC-Link realizes simple distributed control.

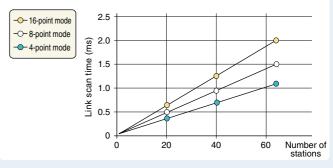
CC-Link provides highly stable cyclic transmission, which enables N:N communication between controller masters or local stations. This N:N communication method between controllers realizes a distributed control system for each system.

Simple controller communication



CC-Link/LT ensures...

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





develop a flexible manufacturing system!" from engineers

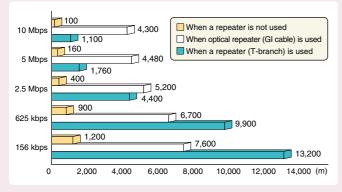
"I want to connect between lines."

"I want a network 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



"I want to connect lots of devices."

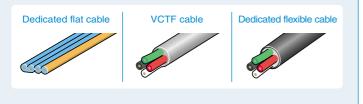
CC-Link V2 can control up to 8192 points and 4096 words.

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

CC-Link Ver 1.0Remote I/O(RX, RY) = 2048 points each
Remote registerCC-Link V2Remote I/O(RWw) = 256 words
(RWr) = 256 wordsCC-Link V2Remote I/O(RX, RY) = 8192 points each
Remote registerRemote I/O(RWw) = 2048 words
(RWr) = 2048 words

("I need widely used cables."

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



"I want to connect HMIs and 'ANDONs.' "

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

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

"I need an easy network."

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

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

("I need a 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



CC-Link also lets you...

"I want to connect drives and servos."

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

"I need various devices on a single network."

Diverse range of products supplied from many partner manufacturers.

"I want to export our facilities and machinery overseas."

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

* For details, refer to MELFANSweb.

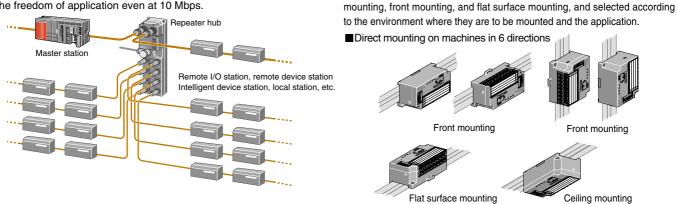


Requests from the production section: "Want to improve CC-Link & CC-Link/LT provide various useful functions.

I want to arrange devices as I desire.

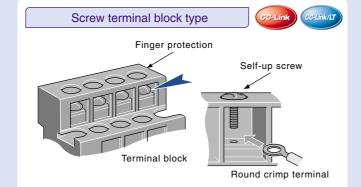
CC-Link allows flexible installation.

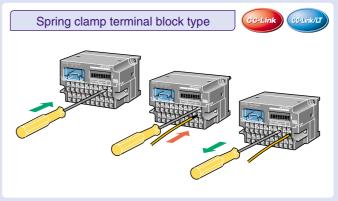
T-branch repeaters, wireless optical repeaters, optical repeaters, and repeater hubs are available with CC-Link. They enhance the freedom of application even at 10 Mbps.



I want to save wiring time and cost.

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



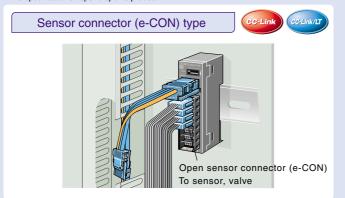


CC-Link family remote I/O modules occupy a small footprint.

Compact type remote I/O modules with 32, 16, 8, 4, and 2 I/O points are

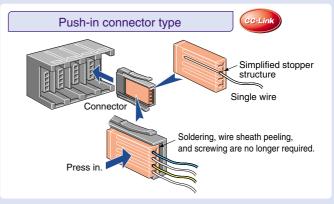
available. They can be mounted in six different directions, including ceiling

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.



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

Spring clamps allows for quick and easy connectivity.



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

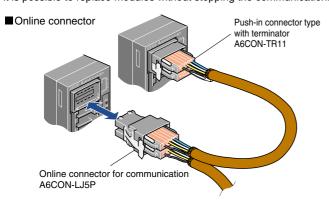
and increase productivity!"



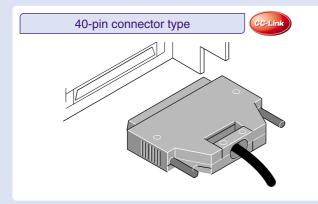
I need assembly/ disassembly to be easy.

CC-Link family products allows easy connection.

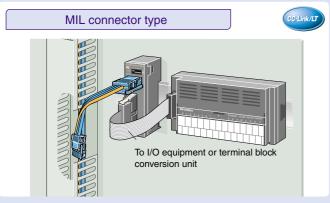
By using online connectors for communication and power supply, it is possible to replace modules without stopping the communication.



Specific connection to application requirements



This type provides an easy and economical way of wiring.



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

I want to prevent trouble from foreign substances

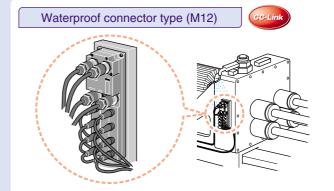
CC-Link protective cover protects I/O terminals. The protective cover can be easily attached and removed. The transparent material allows you to check the LEDs and

I need quick check-up.

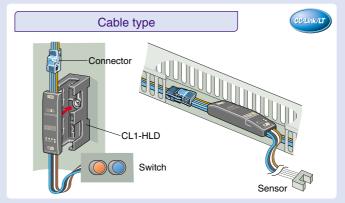
wiring conditions.

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.



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



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

Requests from the maintenance section: "Don't want to CC-Link & CC-Link/LT supports the maintenance work with Before trouble occurs... (preventive maintenance)

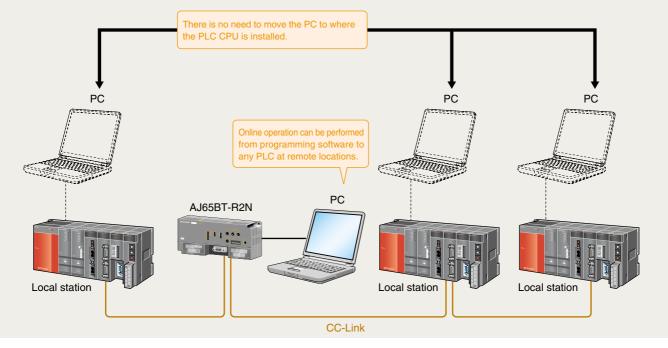
CC-Link family products provides one-step-ahead preventive maintenance.
It is possible to check the data link status using special relays and registers. Hardware and line connection can be tested via offline tests.

"I want to do network maintenance from sites away from the PLC master."

CC-Link provides remote operation functions.

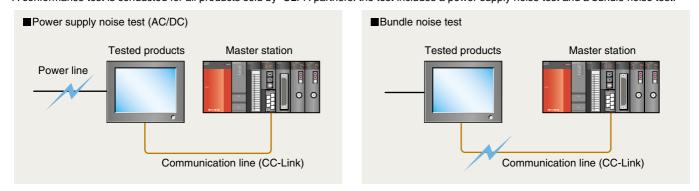
By using the RS-232 interface module (AJ65BT-R2N) into the CC-Link system, it is possible to do network maintenance from sites away from PLC master.

■Network maintenance from sites away from PLC master.

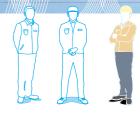


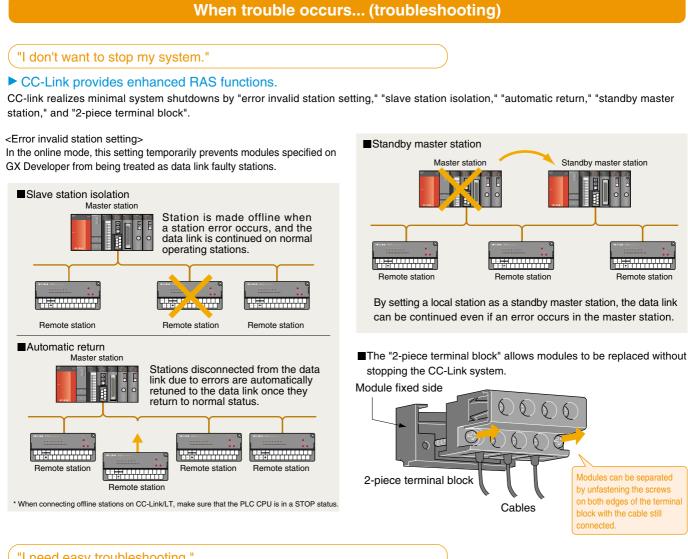
"I need high noise resistance."

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.



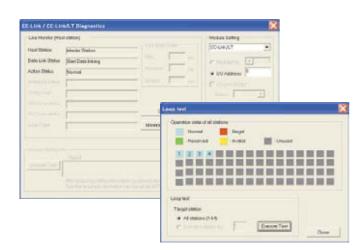
stop system and keep high operating rates!!" secure functions.





"I need easy troubleshooting."

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



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

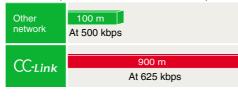
Mr. A from the engineering section

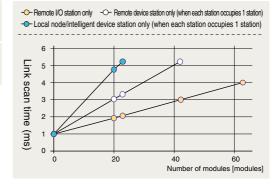
"My current network distance is limited to 100m, and the transmission speed is unstable."

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

Feature 1) CC-Link is high-speed network and total cable distance is long distance. Feature 2) CC-Link is a consistent network.

Transmission speeds and overall Network distance of other companies' networks CC-Link scan time guide





(at communication speed 10 Mbps)

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

Protocol comparison



CC-Link eliminates the need to use different

protocols. Feature 3

CC-link is 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

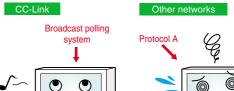
CC-Link offers quick return to the network system.

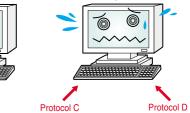
"I also need distributed control."

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

Feature 5

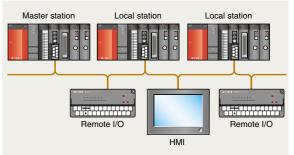
CC-Link is simple control level network.





Protocol B

Distributed control by simple inter-controller network



That's П whv we

CC-Link Family

CASE



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

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

 $\mbox{Mr. B}$ used to be bothered by complicated calculations for the required power capacity. He soon learned that such bothersome calculation was not necessary.

Feature 3 CC-Link frees you from the need of calculation of the power supply capacity.

Mr. C from the maintenance section

"It concerns me that conformance testing is not mandatory in my current network."

Reliability is the most important for him. He was pleased that the conformance test guaranteed the high noise resistance of CC-Link.

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



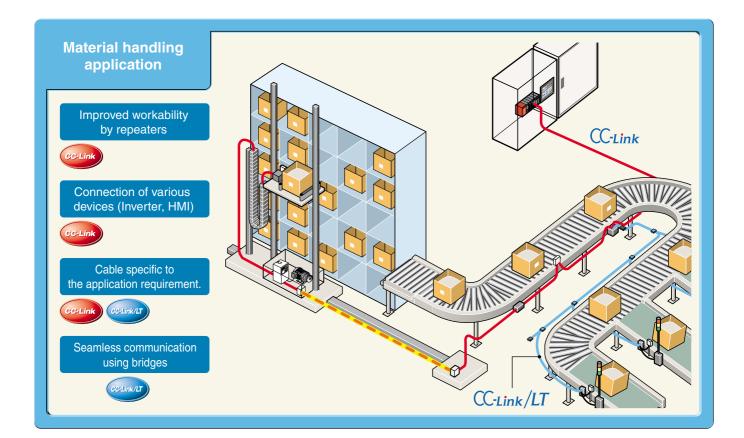


chose CC-Link!"



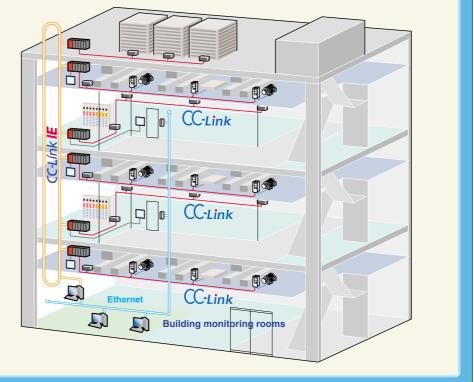


Networks is a key factor in various business applications.

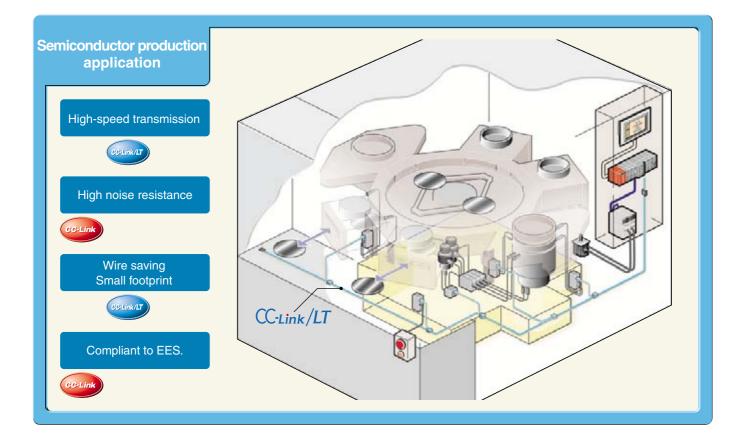


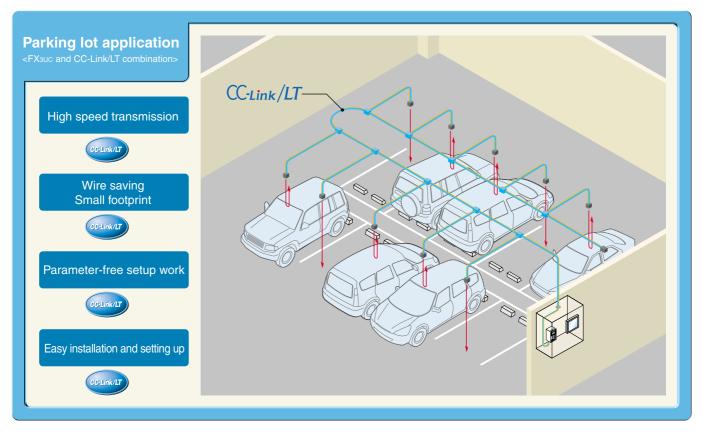






The CC-Link family is the best solution.





WWMM/

CC-Link

Master/local modules

For Q series QJ61BT11N



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





L series CPU with master/local function

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

CC-Link V2



Number of occupied I/O points: 32 Number of occupied stations (at local station): 1 to 4*² (can be set arbitrarily) (CPU part) Number of I/O points:4096 points

Number of I/O device points:8192 points program size:260k steps

For FX series

FX_{2N}-16CCL-M



Number of occupied I/O points: 8 Can be used only as a master station.

For AnS series

A1SJ61BT11



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

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

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

Output modules

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

I/O combined modules

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

Screw/2-piece terminal block type

AJ65BTB

Features

◎ The I/O terminal block is removable.

The 2-piece structure allows easy servicing as the module can be replaced without rewiring.



Input modules

Model name			Rated input voltage/current			External connection
AJ65BTB1-16D	DC	Positive/Negative common	24VDC/7mA	16	10ms or less	1-wire type
AJ65BTB2-16D	DC	Positive/Negative common	24VDC/7mA	16	10ms or less	2-wire type

Output modules

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

I/O combined modules

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

Screw/2-piece/dustproof terminal block type

AJ65DBTB -32

Features

○ The I/O terminal block is removable.

- The modules are mountable in six orientations.
- The 2-piece structure allows easy servicing as the module can be replaced without rewiring.

Input modules

Model name										
AJ65DBTB1-32D	DC	Positive	/Negative comn	non	24VDC/5mA	32		10ms or I	ess	1-wire type
Output modules										
Model name	Output			d voltage/current			rent at OFF	Output protect		
AJ65DBTB1-32T1	Transistor	Sink type	12/2	4VDC 0.5A	32	0.1mA	or less	No		1-wire type
AJ65DBTB1-32R	Relay	-	24VD0	C/240VAC 2A	32	-		No		1-wire type
I/O combined mod	ules									
			ated input				Number	Leakage		

Model name						Output				Leakage current at OFF		External connection
AJ65DBTB1-32DT1	DC	Positive common	24VDC/5mA	16	10ms or less	Transistor	Sink type	12/24VDC 0.5A	16	0.1mA or less	No	1-wire type/1-wire type
AJ65DBTB1-32DR	DC	Positive/Negative common	24VDC/5mA	16	10ms or less	Relay	-	24VDC /240VAC 2A	16	-	No	1-wire type/1-wire type

Spring clamp teminal block push-in type



AJ65ABTP3-16D AJ65ABTP3-16DE

Features

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

* These modules are used as remote device stations.

Input modules with diagnostic functions

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

Spring clamp terminal block type

AJ65VBTS



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.
- ○DIN rail or screw mounting is selectable.
- \bigcirc The 3-wire sensor can be connected.



Input modules

AJ65VBTS3-16D DC Positive common 24VDC/5mA 16 1.5ms or less 3-wire type AJ65VBTS3-32D DC Positive common 24VDC/5mA 32 1.5ms or less 3-wire type	Model name			Rated input voltage/current			
AJ65VBTS3-32D DC Positive common 24VDC/5mA 32 1.5ms or less 3-wire type	AJ65VBTS3-16D	DC	Positive common	24VDC/5mA	16	1.5ms or less	3-wire type
	AJ65VBTS3-32D	DC	Positive common	24VDC/5mA	32	1.5ms or less	3-wire type

Output modules

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

I/O combined modules

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

Sensor connector type



Features

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

Input modules

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

Output modules

Model name			Rated load voltage/current		Leakage current at OFF		External connection
AJ65VBTCE2-8T	Transistor	Sink type	12/24VDC 0.1A	8	0.1mA or less	Yes	2-wire type
AJ65VBTCE2-16T	Transistor	Sink type	12/24VDC 0.1A	16	0.1mA or less	Yes	2-wire type
AJ65VBTCE3-16TE	Transistor	Source type	12/24VDC 0.1A	16	0.1mA or less	Yes	3-wire type

I/O combined modules

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

One-touch connector type

AJ65SBTC - AJ65VBTCU -



Features

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

Input modules

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

Output modules

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

I/O combined modules

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

40-pin connector type (FCN connector type)



AJ65SBTCF - AJ65VBTCF -

Features

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

O The modules are mountable in six orientations.

Input modules

Model name	Input format		Rated inp	ut voltage/cur	rent N	Number of input poi	nts Inj	out response tim	ne Exte	rnal connection		
AJ65SBTCF1-32D		DC F	ositive/Negative co	ommon	24	VDC/5mA		32		1.5ms or less		1-wire type
Output modules	Output modules											
Model name		output format	Rated load volt		nt Number of			ge current at OFF	Output		ion Exte	rnal connection
AJ65SBTCF1-32T	Trans	sistor Sink type	12/24VDC	0.1A		32	0	.1mA or less		Yes		1-wire type
I/O combined mod	I/O combined modules											
Model name					Input response time	Output				Leakage current at OFF		External connection
AJ65SBTCF1-32DT	DC	Positive/Negative common	24VDC/5mA	16	1.5ms or less	Transistor	Sink type	12/24VDC 0.1A	16	0.1mA or less	Yes	1-wire type
AJ65VBTCF1-32DT1	DC	Positive/Negative common	24VDC/5mA	16	0.2ms or less	Transistor	Sink type	12/24VDC 0.1A	16	0.1mA or less	Yes	1-wire type
AJ65VBTCFJ1-32DT1	DC	Positive common	24VDC/5mA	16	0.2ms or less	Transistor	Sink type	24VDC 0.1A	16	0.1mA or less	Yes	1-wire type

Waterproof connector type



AJ65FBTA -16

Features

- OWaterproof type modules are compliant with the IP67 standard for water resistance.
- OModules can be replaced without stopping the system.
- $\ensuremath{\bigcirc}\xspace$ Easy connection without using any tool reduces wiring time.
- \bigcirc Built-in terminating resistor (selected by 110 Ω /130 Ω switch)

 \bigcirc The modules are mountable in six orientations.

Input modules

wodel name			Input format		Rated inp	ut voltage/c		Number of input po		iput response tir		ernal connection
AJ65FBTA4-16D		DC	Positive comn	non	24	VDC/7mA		16		1.5ms or less	2	to 4-wire type
AJ65FBTA4-16DE		DC	Negative com	mon	24	VDC/7mA		16		1.5ms or less	2	to 4-wire type
Output modules												
Model name		Output format						age current at OFF	Output			
AJ65FBTA2-16T	Trans	sistor Sink t	/pe 12/24VD0	C 0.5A		16	(0.25mA or less		Yes		2-wire type
AJ65FBTA2-16TE	Trans	sistor Source	type 12/24VD0	C 1.0A		16	(0.30mA or less		Yes		2-wire type
I/O combined mod	lules											
Model name						Outpu				Leakage current at OFF	Output protection function	
AJ65FBTA42-16DT	DC	Positive comr	non 24VDC/7mA	8	1.5ms or less	Transistor	Sink type	e 24VDC 0.5A	8	0.25mA or less	Yes	2 to 4-wire type
AJ65FBTA42-16DTE	DC	Negative com	mon 24VDC/7mA	8	1.5ms or less	Transistor	Source typ	24VDC 1.0A	8	0.30mA or less	Yes	2 to 4-wire type /2-wire type

/2-wire type

Safety relay modules

Terminal block type

Spring clamp termi	inal block type	QS90SR2SP-CC	QS90SR2SN-CC			
		Features				
		© The safety sv	ystem can be added easily.			
			safety functions (Category 4 of EN954-1, PL e of			
100 Mar) can be added by simply connecting the existing			
Statute and		CC-Link cabl				
1.111	1	Reduced wiri	ing with the CC-Link connection			
			wiring to monitor the status of the safety relay module is			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 2	not required.	, , , ,			
and the second second			are nicely organized inside/outside of the control panel.			
TAXABLE IN CONTRACTOR OF		◎Safety status	s visibility			
		- 1	f the safety system activation can be easily investigated			
			tus of safety outputs/inputs and internal relays are			
		monitored.				
Item	QS90SR2S	SP-CC	QS90SR2SN-CC			
Safety standard		Category 4 of EN954-				
Number of safety input points		1 point (2				
Number of start-up input points	D turo (positivo commo	1 pc				
Input format Number of safety output points	P type (positive common/positive common) N type (positive common/negative common) 1 point (3 outputs)					
Rated load current	Category 4: 3.6A/point Category 3: 5.0A/point (250VAC/30VDC)					
Output OFF		20ms or less (safety input)				
Response time Output ON						
Module power supply		20.4 to 26.4VDC (rip	ople ratio: within 5%)			
Safety power supply		20.4 to 26.4VDC (rip	ople ratio: within 5%)			
Number of extension modules		Up to three extension safety rela				
External connection method		Two-piece spring cl				
Relay life Mechanical		Five million ti				
Electrical		One hundred thous	sand times or more			

Safety controller

Terminal block type

Spring clamp terminal block type



WS0-GCC100202

Features

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

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

Analog modules

Connector type Analog input modules

One-touch connector type

AJ65VBTCU-68ADVN AJ65VBTCU-68ADIN



 $1/3^{3}$

1/3*3

CC-Link **V2**

Remote device

Remote device

One-touch connector type AJ65VBTCU-68DAVN



CC-Link **V2**

Voltage output module

Analog output modules

Model name	Number of channels	Number of occupied points			
AJ65VBTCU-68DAVN	8	1/3 * ³	Remote device		

Terminal	block	type
----------	-------	------

Analog input modules

Voltage input module

Current input module AJ65VBTCU-68ADIN

AJ65VBTCU-68ADVN

Screw terminal block type

AJ65SBT-64AD AJ65SBT2B-64AD (High accuracy, high resolution, high speed, 2-piece terminal block type)

m



Voltage/current input module

Tonago, our font input inou lio						
Model name						
AJ65SBT-64AD	4	1	Remote device			
AJ65SBT2B-64AD	4	1	Remote device			

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

Analog input modules

Screw/2-piece terminal block type





Voltage/current input module

AJ65BT-64AD Remote device

Temperature input modules

Screw/2-piece terminal block type

AJ65SBT2B-64RD3 AJ65SBT2B-64TD



Temperature input modules

Screw/2-piece terminal block type

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



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 name	Number of channels		
AJ65SBT-62DA	2	1	Remote device
AJ65SBT2B-64DA	4	1	Remote device

Analog output modules

Screw/2-piece terminal block typ	pe

AJ65BT-64DAV	
AJ65BT-64DAI	

Voltage output module

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

RTD input module			
Model name		Number of occupied points	
AJ65SBT2B-64RD3	4	1	Remote device
Thermocouple temperature input module			
Model name		Number of occupied points	
AJ65SBT2B-64TD	4	4	Remote device

Thermocouple temperature input module			
Number of channels	Number of occupied points		
8	4	Remote device	
Platinum resistance temperature sensor Pt 100 temperature input modules			
	Number of occupied points		
4	4	Remote device	
4	4	Remote device	
	Number of channels 8 emperature sense Number of channels 4	Number of channels Number of occupied points 8 4 emperature sensor Pt 100 temperature Number of channels Number of occupied points 4 4	

High-speed counter modules Positioning module

AJ65BT-D62 AJ65BT-D62D AJ65BT-D62D-S1 AJ65BT-D62 AJ65BT-D62D AJ65BT-D62D-S1 DC input Differential input Differential input DC input DC input Differential input 0 to 16777215 0 to 16777215 0 to 16777215 (24-bit binary) (24-bit binary) (24-bit binary)

RS-232 interface module

4

Remote device

4

Remote device

4

Remote device

AJ65BT-R2N AJ65BT-R2N RS-232 1 channel, DC input 2 points/transistor output 2 points 1 Intelligent device

FX Series interface block



◎ Interface block for connecting Mitsubishi micro-programmable controllers FX3G, FX3U, FX3UC Series as CC-Link intelligent device stations

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

AJ65BT-D75P2-S3



400 kbps, pulse count from -214/483648 to 214/483647 Number of occupied stations	Item	AJ65BT-D75P2-S3
occupied stations	Description	
Station type Intelligent device		4
	Station type	Intelligent device

FX_{2N}-32CCL



Features

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

Item	FX2N-32CCL
Description	FX series interface block
Number of occupied stations	1 to 4
Station type	Remote device station
Applicable programmable controller	Mitsubishi micro-programmable controllers • FX _{1N} , FX _{2N} , FX _{3UC} • FX _{1NC} , FX _{2NC} , FX _{3UC} Series (connector conversion module required)

Interface board for personal computer

Q80BD-J61BT11N Q81BD-J61BT11



Features

OPersonal computers equipped with a PCI or PCI Express bus can be incorporated into the CC-Link system.

©Can be used as a CC-Link Ver. 2 compatible master station, standby master station or local station.

ODrivers compatible with each of the following OS are included.

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

 Item
 Q80BD-J61BT11N
 Q81BD-J61BT11

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

* Microsoft Windows is a registered trademark of Microsoft Corporation in the United States and other countries

AJ65FBTA-RPH

AJ65SBT-RPS/RPG

Repeater modules

Repeater module

ECP-CL2BD



Mitsubishi Electric Engineering Corporation

Features

©Control and monitor CC-Link devices using compact PCI bus interface (cPCI) compatible industrial computers.

OThe CC-Link Industrial PC interface board can operate as a master or local station and is compatible with CC-Link version 2.

©Configure CC-Link parameters using the included software.

©Function libraries are available to help create user programs.

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

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





Features

- O The following 5 types are available for various applications.
- ◎Thin, waterproof type repeater hub module:
- Star topology, trunk line extension, waterproof structure © Spring 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 \tilde{O} Space optical repeater module:
- Communications on linear mobile systems

Product name				Station type
Thin, waterproof type repeater hub module	AJ65FBTA-RPH	Start wiring of up to 8 branches. Wiring of max. length matched to transmission speed is possible for each branch. Waterproof (IP67) structure	-	-
Spring clamp terminal block type repeater hub module	AJ65BTS-RPH	Start wiring of up to 8 branches. Wiring of max. length matched to transmission speed is possible for each branch. Spring clamp terminal block type	-	-
Repeater module (T-branch)	AJ65SBT-RPT	Maximum number of connected levels: 10, T-branch wiring is possible.	-	-
	AJ65SBT-RPS	For SI/QSI-type optical fiber cables (Use two modules as a set). Maximum number of connected levels: 3, maximum transmission distance: 500m (SI)/1000m (QSI)	-	-
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: 2000m	-	-	
Space optical repeater modules	AJ65BT-RPI-10A	Use AJ65BT-RPI-10A and AJ65BT-RPT-10B as a set. Transmission speeds of 156kbps, 625kbps and 2.5Mbps are supported.	-/1	Remote I/O station when occupying one station
Space oplical repeater modules	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



*4: AJ65VBTSD-□ remote I/O module, AJ65VBTCE□-□ remote I/O module, AJ65VBTCU□-□ remote I/O module, AJ65ABTP□-□ remote I/O module AJ65VBTCU-□ analog module, AJ65SBT-CLB CC-Link to CC-Link/LT bridge module

*5: AJ65VBTSD-D remote I/O module, AJ65VBTCED-D remote I/O module, AJ65VBTCUD-D remote I/O module, AJ65ABTPD-D remote I/O module, AJ65VBTCU-D analog module

Memo	
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	;

CC-Link Safety

Master module

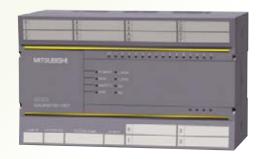
	For QS series
	QS0J61BT12
Internal current consi	umption : 0.46A
Weight	(5VDC, supplied from programmable controller) : 0.12kg

Remote I/O modules

Terminal block type

Screw terminal block type

QS0J65BTB2-12DT



I/O combined module

Features

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

Model name	e Input format		Rated input voltage/current	' I of input		Output format		Number of output points			External connection
QS0J65BTB2-12DT	DC	Negative common	24VDC/4.6mA	8/16	Transistor	Source + sink/ Source + source type	24VDC/0.5A	4/2	0.5mA or less	Yes	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 EN954-1 can be configured by the combination of wiring and parameters.

Input module

Model name	Inpu	ıt format	Rated input voltage/current	Number of Input response time		External connection
QS0J65BTS2-8D	DC	Negative common	24VDC/5.9mA	8/16	11.2ms or less	2-wire type

Output module

Model name		Output format				Output protection	
					at OFF		
QS0J65BTS2-4T	Transistor	Source + sink/Source + source type	24VDC/0.5A	4/2	0.5mA or less	Yes	2-wire type

CC-Link/LT

Master/bridge modules



For FX_{3UC} series FX3UC-32MT-LT (-2)



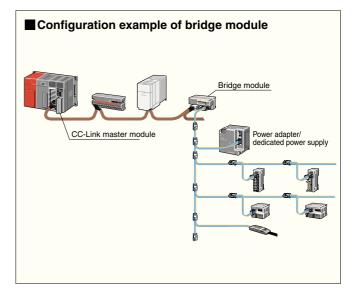
Current consumption : 7W (main module only) Built-in power supply : 24VDC 350mA (for CC-Link/LT network) Weight : 0.25kg * CC-Link/LT parameters for FX3UC-32MT-LT-2 can be configured with GX Works2, GX Developer or display modules.



For FX series FX_{2N}-64CL-M



Current consumption	:	190mA (5VDC, supplied from programmable controller), 25mA (2VDC, supplied from power adapter)
Current at start-up Weight		35mA (24VDC, supplied from power adapter) 0.15kg



Remote I/O modules

Terminal block type

Screw terminal block type

CL1X4-D1B2 **CL1Y4-R1B1** CL1XY8-DT1B2

CL2X8-D1B2 CL2Y8-TP1B2 CL1XY8-DR1B2



CL1Y4-T1B2 CL1Y4-R1B2 CL1XY4-DT1B2 CL1XY4-DR1B2

Features

©The industry's most compact size

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

Input modules

CL1X4-D1B2 DC Positive/Negative common 24VDC/4mA 4	0.5ms/1.5ms or	r less 2-wire type
CL2X8-D1B2 DC Positive/Negative common 24VDC/4mA 8	0.5ms/1.5ms or	r less 2-wire type

Output modules

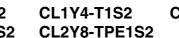
Model name	Output format		Rated load voltage/current	Number of output points	Leakage current at OFF	Output protection function	External connection
CL1Y4-T1B2	Transistor	Sink type	12/24VDC 0.1A	4	0.1mA or less	No	2-wire type
CL2Y8-TP1B2	Transistor	Sink type	12/24VDC 0.1A	8	0.1mA or less	Yes	2-wire type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

I/O combined modules

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

Spring clamp terminal block type

CL1X4-D1S2 CL2Y8-TP1S2



CL2X8-D1S2



Features

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

Input modules

Model name		Input for	rmat	Rated input voltage/curre	nt Number of input poi	nts Input response time	External connection	
CL1X4-D1S2	DC Positive/Negative common DC Positive/Negative common		24VDC/4mA	4	0.5ms/1.5ms	2-wire type		
CL2X8-D1S2			itive/Negative common	Negative common 24VDC/4mA		0.5ms/1.5ms	2-wire type	
Output modules								
Model name	Output		Rated load voltage/current	Number of output points	Leakage current at OFF	Output protection function		
CL1Y4-T1S2	Transistor	Sink type	12/24VDC 0.1A	4	0.1mA or less	No	2-wire type	
CL2Y8-TP1S2	Transistor	Sink type	12/24VDC 0.1A	8	0.1mA or less	Yes	2-wire type	
CL2Y8-TPE1S2	PE1S2 Transistor Source type		12/24VDC 0.1A	8	0.1mA or less	Yes	2-wire type	

Connector type

Sensor connector type (e-CON)

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

CL2X8-D1C3V CL2Y16-TP1C2V



Features

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

Input modules

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

Output modules

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

I/O combined modules

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

MIL connector type



CL2X16-D1M1V CL2X16-D1MJ1V CL2Y16-TP1M1V CL2Y16-TPE1M1V

Features

- ^OThe industry's most compact size
- MIL connector used for easy connection to relay terminals, terminal block conversion modules, solenoid valves, and others.

CL2Y16-TP1MJ1V

- Simple module replacement by only removing the connector
- OModules with a shared power supply for module and I/O parts are available. (CL2X16-D1MJ1V and CL2Y16-TP1MJ1V) No external power supply for I/O part saves cost and space.

Input modules

Model name		t format	Rated input voltage/current	Number of input points	Input response time		
CL2X16-D1M1V	DC F	Positive common	24VDC/4mA	16	0.5ms/1.5ms or less	1-wire type	
CL2X16-D1MJ1V	DC F	Positive common	24VDC/4mA	16	0.5ms/1.5ms or less	1-wire type	
Output modules							
Model name	Outpu	ut format	Rated load voltage/current	Number of output points	Leakage current at OFF	Output protection function	
CL2Y16-TP1M1V	Transistor	Sink type	12/24VDC 0.1A	16	0.1mA or less	Yes	1-wire ty
CL2Y16-TPE1M1V	Transistor	Source type	12/24VDC 0.1A	16	0.1mA or less	Yes	1-wire ty
CL2Y16-TP1MJ1V	Transistor	Sink type	24VDC 0.1A	16	0.1mA or less	Yes	1-wire ty

Cable type

Cable type



CL1Y2-T1D2S CL1XY2-DT1D5S

Features

©The industry's most compact size

©The remote I/O module can be stored in a duct with cables.

OIntegration of communication cables and external device connection cables for easy wiring

©Cables (50cm) provided to both communication and I/O sides

Input modules

-												
Model name	Input format Rated		ated inpu	t voltage/current	Number	of input points	Input response	time E	External connection	n		
CL1X2-D1D3S		DC Positive	common	24V	/DC/4mA		2	0.5ms/1.5ms or	less	3-wire type		
Output modules												
Model name		Output format		Rated loa	d voltage/curren	t Number	of output point	ts Leakage current a	at OFF OL	utput protection func	tion Exterr	nal connectior
CL1Y2-T1D2S		Transistor	Sink type	24\	/DC 0.1A		2	0.1mA or les	ss	No	2	wire type
I/O combined modules												
		Input format	Rated input voltage/current		Input response time	Output		Rated load voltage /current	Number of output points	aneyea	Output protection function	
CL1XY2-DT1D5S	DC	Positive common	24VDC/4mA	1	1.5ms or less	Transistor	Sink type	24VDC 0.1A	1	0.1mA or less	No	3-wire type 2-wire type

Analog modules

Terminal block type



Features

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

Voltage/current input module

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

Features

©Efficient usage of I/O points (number of occupied stations) is available because the points can be changed by the preset conversion-enabled channel.

(The number of occupied stations changes depending on the setting of the channel for which conversion is enabled.)

©The dedicated flat cable (50cm) is directly connected to a module.

Voltage/current output module

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

Dedicated power supply

Dedicated power supply





Features

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

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

Optional parts



Mitsubishi Electric Corporation



CL1PAD1

Power supply adapter

Power supply adapter

Features

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

Item	CL1PAD1				
Voltage input range	Depending on connected model. Max. 28.8VDC				
Max. rated current	5.0A *5				
Isolation resistance	Across all external terminals and ground terminal 500VDC, 10MW by insulation resistance tester				
External connection method	Module power supply: terminal block 3 pins (M3 screws) Power supply for supplying power to communication line/module: CC-Link/LT dedicated connector (4-pin) x 2				
Weight (kg)	0.26				
*E In regular operation, use the adapter so that the max, roted surrent is not exceeded					

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

able	Connector for flexible cable	Open sensor connector (e-CON)
	CL9-CNR-20	ECN-*****
ce Co.,Ltd.	Mitsubishi Electric System & Service Co.,Ltd.	Mitsubishi Electric System & Service Co.,Ltd.
	Dedicated flat cable	Dedicated flexible cable
	CL9-FL4-18	CL9-MV4-075
Y		
e Co.,Ltd.	Mitsubishi Electric System & Service Co.,Ltd.	Mitsubishi Electric System & Service Co.,Ltd.
ation	IDC tool for open sensor connector	Screw terminal block Common terminal block
	e-TOOL-N	CL2TE-5
		ABAAR
ce Co.,Ltd.	Mitsubishi Electric System & Service Co.,Ltd.	Mitsubishi Electric Corporation

Mitsubishi Electric Corporation

Embedded modules





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.

Q50BD-CCV2 CC-Link Ver.2 embedded interface board

Dedicated communication LSI

CC-Link

The actual modules may slightly differ in shapes from the photo shown.

Features

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

Product name	MFP2AN		MFI	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	60pcs	300pcs	60pcs	300pcs	60pcs	300pcs	
Application	Remote I/O station		Remote I/O station		Remote device station		
MFP:Mitsubishi Field-network Processor							

 CC-Link
 CC-Link
 CC-Link

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 Ima

name	A6GA-CCMFP1NN60F	A6GA-CCMFP1NN300F	Q6KT-NPC2OG51			
Package unit	60pcs	300pcs	40pcs			
Application	Master station · local statio	n.intelligent device station	Network circuit			
MFP:Mitsubishi Field-network Processor						

Dedicated communication LSI CLC13 CLC21 CLC31



Features

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

Product name	CLC13			CLC31		
Ordering model name	CL2GA13-60	CL2GA21-60	CL2GA21-300	CL2GA31-60		
Package unit	60pcs	60pcs	300pcs	60pcs		
Application Master station		Remote I/O station		Remote device station		
CLC:CC-Link/LT Controller						

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

MFP2N MFP2AN MFP3N

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

	Iten	n				Specifications				
su			Remote I/O (RX,R	Y) :2048 points ea	ch					
specifications	Maximum number of I	link points	Remote register (F	Ww) :256 points						
acific			Remote register (F	Wr) :256 points						
l sp			Remote I/O (RX,R	Y) :32 points each						
Control	Number of link points	per station	Remote register (F	Ww) :4 points						
ŏ			Remote register (F	Wr) :4 points						
	Transmission speed		10M/5M/2.5M/625	156kbps</td <td></td> <td></td> <td></td> <td></td> <td></td>						
	Communication metho	od	Broadcast polling method							
	Synchronization meth	od	Flag synchronous method							
	Encoding method		NRZI method							
	Transmission path		Bus type (conforms to EIA RS-485)							
	Transmission format		Conforms to HDLC	;						
	Error control system		CRC (X ¹⁶ + X ¹² + X	(⁵ + 1)						
			64 modules. Howe	ver, the following con	nditions must be s	atisfied.				
			$\int (1 \times a) + (2 \times b)$	$+(3 \times c) + (4 \times d) \le 6$	4					
				odules occupying 1 st		of modules occupyin	a 2 stations			
				odules occupying 3 st			-			
	Number of connectab	le modules		B) + (88 x C) \leq 2304		or modules socupy	ng 4 otationo			
				mote I/O stations				. Max 64 m	nodules	
				mote device stations						
				stations, standby ma						
				stations, standby ma		intelligent device sta	10113	Wax. 2011		
รเ	Remote station numb	er	1 to 64							
Communication specifications										
Sific				Remote I/O s	station Rei	note I/O station	Local sta or	ation	Local station or	
spec			Master station	or		or	intellig		intelligent	
ion				remove device	station	ve device station	device st	ation	device station	
licat										
unu					Cable length between station	ne l				
imo				≁		→				
0	Maximum overall cable length and cable length between stations		│		Maximi	m overall cable leng	th		→	
			Ver.1.10 compatib	le CC-Link dedicated	cable (terminatin	g resistor of 110Ω us	ed)			
			Transmission sp		etween stations	Maximum overall c		When Ver	.1.10 modules and	
			156kbps			1200m		Ver.1.00 r	nodules are mixed, the	
			625kbps		-	900m		Maximum	overall cable length an	
			2.5Mbps			400m			he station-to-station cable length	
			5Mbps			conform to	o the Ver1.00			
			10Mbps			100m		specificati	ons.	
					1					
			CC-Link Ver.1.10 c							
				d cable certified by C	C-Link Partnersh	p Association.				
	Connection cable		Please note that operation will not be guaranteed if the other cable is used.							
					•	other cable is used.				
	Connection cable		Cables from diffe	rent manufacturers c	an be used togeth	other cable is used. ler if they support Ve				
	Connection cable		 Cables from diffe For the specifical 	tions of the CC-Link d	an be used togeth dedicated cable of	other cable is used. Her if they support Ve the contact informat	ion on them,			
	Connection cable		 Cables from diffe For the specifica product catalogs 	rent manufacturers c tions of the CC-Link d published by CC-Link	an be used togeth dedicated cable of k Partner Associa	other cable is used. Her if they support Ve the contact informat tion or visit its web si	ion on them, te at http://w	ww.cc-link.o	rg.	
	Connection cable		 Cables from diffe For the specifica product catalogs The CC-Link dec 	rrent manufacturers c tions of the CC-Link o published by CC-Link licated cables, the hig	an be used togeth dedicated cable of k Partner Associa	other cable is used. Her if they support Ve the contact informat tion or visit its web si	ion on them, te at http://w	ww.cc-link.o		
	Connection cable	.	 Cables from diffe For the specifica product catalogs The CC-Link dec cables cannot be 	rrent manufacturers c tions of the CC-Link o published by CC-Link licated cables, the hig	an be used togeth dedicated cable of k Partner Associa	other cable is used. eer if they support Ve the contact informat tion or visit its web si C-Link dedicated cat	ion on them, te at http://w bles and Ver.	ww.cc-link.o	rg.	
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uo		F	Cables from diffe For the specifica product catalogs The CC-Link dec cables cannot be tic refresh function*1 tAS functions	rent manufacturers c tions of the CC-Link of published by CC-Link licated cables, the hig used together.	an be used toget ledicated cable or k Partner Associa gh-performance C	other cable is used. the if they support Ve the contact informat tion or visit its web si C-Link dedicated cat Remote I/O network Scan synchronous	ion on them, te at http://wo bles and Ver. c mode* ¹ function	ww.cc-link.o	rg.	
inction		F by master function, Automati	Cables from diffe For the specifica product catalogs The CC-Link dec cables cannot be tic refresh function*1 tAS functions c return function, Slav	rent manufacturers of tions of the CC-Link of published by CC-Link licated cables, the hig used together.	an be used toget ledicated cable or k Partner Associa gh-performance C	other cable is used. the if they support Ve the contact informat tion or visit its web si C-Link dedicated cat Remote I/O network Scan synchronous Automatic CC-Link	ion on them, te at http://wo bles and Ver. c mode* ¹ function startup* ²	ww.cc-link.o	rg.	
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	(Standt *1 M *2 T If relay terminal block Connect cables direc	F oy master function, Automati error detection by link s May not be supported deper his function is available only cs or relay connectors are us thy to each CC-Link module, ed connection condition of C	Cables from diffe For the specifica product catalogs The CC-Link dec cables cannot be tic refresh function*1 tAS functions c return function, Slar pecial relays/registers ading on CPUs to be r for the Q Series. sed for the CC-Link ca or consider using the	rent manufacturers c tions of the CC-Link of published by CC-Link licated cables, the hig used together. ve station cut-off func s, test/monitor) used together. able installation, the c o CC-Link repeater mo	an be used toget dedicated cable or k Partner Associa gh-performance C tion, tion, Er communication err odules. able below.	other cable is used. the rif they support Ve the contact informat tion or visit its web si C-Link dedicated cat Remote I/O network Scan synchronous Automatic CC-Link Reserved station for or invalid station set Support for duplex f	ion on them, te at http://w bles and Ver. c mode*1 function startup*2 unction ting function <u>unction*2</u> ding on the sy	ww.cc-link.o	rg.	
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Differences between CC-Link Ver.2 and Ver.1

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

CC-Link Ver.1 specifications

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

CC-Link Ver.2 specifications

Item		Specifications					
Maxir	num number of link points		Remote I/O (RX, RY): 8192 p	ooints each, Remote register (RWw):	2048 points, Remote register (RWr	r): 2048 points	
Expa	nded cyclic setting		Single	Double	Quadruple	Octuple	
		Remote I/O (RX, RY)	32 points each	32 points each	64 points each	128 points each	
Number of link points per static		Remote register (RWw)	4 points	8 points	16 points	32 points	
		Remote register (RWr)	4 points	8 points	16 points	32 points	
		Remote I/O (RX, RY)	32 points each	32 points each	64 points each	128 points each	
မ္း	Occupied 1 station	Remote register (RWw)	4 points	8 points	16 points	32 points	
each tions		Remote register (RWr)	4 points	8 points	16 points	32 points	
for		Remote I/O (RX, RY)	64 points each	96 points each	192 points each	384 points each	
ed	Occupied 2 station	Remote register (RWw)	8 points	16 points	32 points	64 points	
link points t occupied s		Remote register (RWr)	8 points	16 points	32 points	64 points	
f occ		Remote I/O (RX, RY)	96 points each	160 points each	320 points each	640 points each	
of li	Occupied 3 station	Remote register (RWw)	12 points	24 points	48 points	96 points	
ber		Remote register (RWr)	12 points	24 points	48 points	96 points	
Number of number of		Remote I/O (RX, RY)	128 points each	224 points each	448 points each	896 points each	
Σ ^c	Occupied 4 station	Remote register (RWw)	16 points	32 points	64 points	128 points	
		Remote register (RWr)	16 points	32 points	64 points	128 points	
			1) Total number of stations	· · ·	· ·	· ·	
			,	04 + b8) x 2 + (c + c2 + c4 + c8) x 3	$+ (d + d2 + d4 + d8) \times 4 < 64$		
			2) Number of input/output points of	, , , , , , , , , , , , , , , , , , , ,	. (
			(a x 32 + a2 x 32 + a4 x 64 + a8 x 128) + (b x 64 + b2 x 96 + b4 x 192 + b8 x 384)				
			$(a \times 32 + a2 \times 32 + a4 \times 34 + a8 \times 126) + (b \times 64 + b2 \times 36 + 56 \times 162 + b6 \times 364)$ + $(c \times 96 + c2 \times 160 + c4 \times 320 + c8 \times 640) + (d \times 128 + d2 \times 224 + d4 \times 448 + d8 \times 896) \le 8192$				
			3) Number of all remote register points				
			(a x 4 + a2 x 8 + a4 x 16 + a8 x 32) + (b x 8 + b2 x 16 + b4 x 32 + b8 x 64)				
			$+ (c \times 12 + c2 \times 24 + c4 \times 48 + c8 \times 96) + (d \times 16 + d2 \times 32 + d4 \times 64 + d8 \times 128) \le 2048$				
				tible slave stations that occupy 1 station, a	· -	curv 1 station which are set to "Single"	
				tible slave stations that occupy 2 stations, a			
				tible slave stations that occupy 3 stations,			
				tible slave stations that occupy 4 stations,			
				e stations that occupy 1 station which ar		coupy 4 stations which are set to Single .	
				e stations that occupy 2 stations which a			
Num	per of connected modules			e stations that occupy 3 stations which a			
Num	ber of connected modules						
				e stations that occupy 4 stations which a			
				e stations that occupy 1 station which ar			
				e stations that occupy 2 stations which a			
				e stations that occupy 3 stations which a			
				e stations that occupy 4 stations which a			
			a8: The number of ver.2 compatible stations that occupy 1 station which are set to "Octuple".				
			b8: The number of ver.2 compatible stations that occupy 2 stations which are set to "Octuple".				
			c8 : The number of ver.2 compatible stations that occupy 3 stations which are set to "Octuple".				
				e stations that occupy 4 stations which a	are set to "Octuple".		
			4) Number of connectable modules	S			
			16 x A+54 x B+88 x C ≤ 2304				
			A: Number of remote I/O stations -		Max. 64 mo		
			B: Number of remote device station		Max. 42 mo		
			C: Number of local stations standh	y master stations and intelligent device	stations Max. 26 mo	dulos	

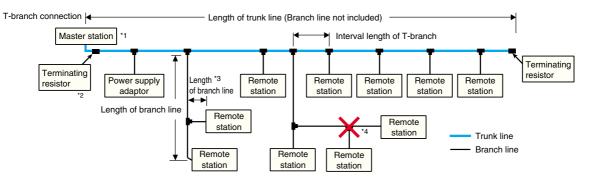
* 2) and 3) are Ver. 2 mode only; calculation is necessary.
 * There is no change in the cable and wiring specification for CC-Link Ver. 2. Use Ver. 1 cable for the connection of Ver. 2 devices.



CC-Link/LT specifications

Item				4-point mode	8-point mode	16-point mode		
	Maximum number of link points (When the same I/O address is used)			256 points (512 points)	512 points (1024 points)	1024 points (2048 points)		
	Number of link points per station (When the same I/O ad		address is used)	4 points (8 points)	8 points (16 points)	16 points (32 points)		
Control specifications		When 32 stations connected	Number of points	128 points	256 points	512 points		
			2.5Mbps	0.7ms	0.8ms	1.0ms		
cifi		when 32 stations connected	625kbps	2.2ms	2.7ms	3.8ms		
spe	Link scan time		156kbps	8.0ms	10.0ms	14.1ms		
2	Link scan une	When 64 stations connected	Number of points	256 points	512 points	1024 points		
ont			2.5Mbps	1.2ms	1.5ms	2.0ms		
0			625kbps	4.3ms	5.4ms	7.4ms		
			156kbps	15.6ms	20.0ms	27.8ms		
	Transmission speed			2.5Mbps/625kbps/156kbps				
s	Communication prot	otocol		BITR (Broadcastpolling + Interval Timed Response)				
specifications	Transmission path			T-branch type				
lica	Error control system	Error control system Number of connectable modules		CRC				
ecit	Number of connecta			64				
	Remote station num	ber		1 to 64				
tion	Maximum number of	f connectable stations per branch l	ine	8				
lica	Distance between st	ations		No limit				
nun	T-branch interval			No limit				
Communication	Master station positi	on		End of trunk line				
ö	RAS function			Network diagnosis, Internal loopback dia	agnosis, Station detach function, Automati	c return function		
	Connection cable			Dedicated flat cable (0.75mm ² x 4), VCT	F cable, high flexible cable			

CC-Link/LT network wiring specifications



Item	Specifications		Remarks	
Transmission speed	2.5Mbps	625kbps	156kbps	-
Distance between stations		No limit		-
Maximum Number of stations on a trunk line		8 modules		-
Length of trunk line	35m	100m	500m	Cable length between 2 terminating resistors
Length of trank line	3511 10011		50011	(Branch line length not included)
T-branch interval	No limit			-
Maximum length of branch line	4m 16m 60m		60m	Cable length per branch line
Overall length of branch lines 15m		50m	200m	Total length of all trunk lines
*1 Alwaya install the master module at one and of th	*2 The length	of a line branched from	n a branch line is also included in the may branch	

*1 Always install the master module at one end of the trunk line. *2 Install a terminating resistor near the master module (within 20cm). *3 The length of a line branched from a branch line is also included in the max. branch line length and overall branch line length.
*4 Cables cannot be connected between branch lines.

Precautions when mixed cables are used

1 Different types of cables cannot be used together on the trunk line.

Dedicated flat cables, VCTF cables and flexible cables can be used together for branch lines. * The wiring specifications do not change according to on the used cables and mixed use of cables.

3 Different types of cables cannot be used together on the same branch line. * When the module with cable (e.g. CL1Y2-T1D2S) is used, it can be connected to a different type of cable by making sure the dedicated cables are within 20 cm.

2

General specifications

			Specific	ations		
Item		CC-Link		CC-Link/LT		
Operating ambient temperature		0 to 55°C *3		0 to 55°C *4		
Storage ambient temperature	-20 to 75°C *3			-25 to 75°C *4		
A 1 1 1 1 1	10 to 90%	RH, non-condensing *5		5 to 95%	RH, no condensation a	allowed
Operating ambient humidity	(The waterproof type remote I/C	O modules conform to the	IP67 standard. *6)	(conforming to J	IIS B 3502, IEC 61131-	2, level RH-2)
Characa ambient humiditu	10 to 00%	DH non condensing *6		5 to 95%	RH, no condensation a	allowed
Storage ambient humidity	10 to 90%RH, non-condensing *6			(conforming to JIS B 3502, IEC 61131-2, level RH-2)		
			Frequency	Acceleration	Amplitude	Number of sweeps
	Conforming to	Under	5 to 8.4Hz	-	3.5mm	10 iline a saih
Vibration resistance	JIS B 3502,	intermittent vibration	8.4 to 150Hz	9.8m/s ²	-	10 times each
	IEC 61131-2	Under	5 to 8.4Hz	-	1.75mm	in X, Y and Z directions
		continuous vibration	8.4 to 150Hz	4.9m/s ²	-	(for 80minutes)
Shock resistance	C	onforming with JIS B 350	2, IEC 61131-2 (147m	n/s², 3 times in each of 3 dire	ections X, Y and Z)	
Operating ambience			No corrosiv	ve gases		
Operating altitude			2000m (6562ff	t) or lower *7		
Installation location	n location Inside control panel					
Overvoltage category *1			ll or lo	II or lower		
Pollution degree *2			2 or lo	ower		
Pollution degree *2 2 or lower 1: It indicates the device is to be connected to which power distribution part, within the area from the public electricity network to machinery on the premises. Category II applies to devices to which power is supplied from fixed installations. 4: The ambient operating/storage temperatures satisfy requirements in excess of the JIST 3502, IEC61131-2 standards. *5: Use the master module for the Q Series within an ambient operating humidity of 5 to 95					perating humidity of 5 to 95%.	

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

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

*5: Use the master module for the Q Series within an ambient operating humidity of 5 to 95% *6: This is applicable to conditions where waterproof connectors are used for all modules or waterproof caps are placed in unused through-pipes. *7: Do not operate or store the programmable controller at altitude 0m or more in a pressurized environment. It may malfunction if it is operated. Contact us when operating in a pressurized state.



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CC-Link Family

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CC-Link - Open and Global ! CLPA is supporting the spread of CC-Link.

Exhibiting in trade shows, conducting conformance tests, sending out the latest information... Through these and other popularization activities, CLPA is extending the possibilities of CC-Link.

The Japan-original open field network, CC-Link. CLPA (CC-Link Partner Association), in which Mitsubishi Electric also participates, was established with a view to spreading CC-Link to the world. Through vigorous activities such as planning and running trade shows and seminars, conducting conformance tests, and providing information by catalogs, pamphlets, and the Internet, the number of CLPA partner manufacturers and CC-Link compatible products is increasing steadily, and the CLPA is becoming a driving force for the globalization of CC-Link.

Conformance tests support the rapid increase of compatible products.



Exhibitions and seminars are held to recruit new partner members.

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This web site provides the latest CC-Link information.



CC-Link - Open and Global! CC-Link is accelerating toward a global network.

CLPA has established CLPA offices all over the world in order to spread CC-Link to Japanese and overseas manufacturers. Through positive activities such as exhibiting in trade shows in the major cities and setting up conformance test organizations, CLPA sends out information designed to expand the potential of CC-Link and increasing the number of CLPA partners.





CC-Link Related Product Model Names

Mitsubishi Electric Corporation

laster/local	module	QJ61BT11N L26CPU-BT L26CPU-PBT LJ61BT11 FX2N-16CCL-M A1SJ61QBT11 A1SJ61BT11	Master/local module for Q Series CC-Link Ver.2-compatible CPU with master/local function for L Series CC-Link Ver.2-compatible Sink output type CPU with master/local function for L Series CC-Link Ver.2-compatible Source output type Master/local module for L Series CC-Link Ver.2-compatible	-
laster/local	module	L26CPU-PBT LJ61BT11 FX2N-16CCL-M A1SJ61QBT11	CPU with master/local function for L Series CC-Link Ver.2-compatible Source output type	
laster/local	module	LJ61BT11 FX2N-16CCL-M A1SJ61QBT11		
laster/local	module	FX2N-16CCL-M A1SJ61QBT11	Master/local module for L Series CC-Link Ver.2-compatible	-
		A1SJ61QBT11		-
			Master block for FX Series (FX1N/FX2N/FX3U/FX1NC/FX2NC/FX3UC) Master/local module for QnAS/QnASHCPU	-
			Master/local module for AnS/AnSH/AnUS/AnUSHCPU	-
		AJ65SBTB2N-8A	Input 8 points: 100 to 120VAC 2-wire type Response time 20ms Terminal block type	IP1)
		AJ65SBTB2N-16A	Input 16 points: 100 to 120VAC 2-wire type Response time 20ms Terminal block type	IP1)
		AJ65SBTB1-8D	Input 8 points: 24VDC (positive/negative common shared) 1-wire type Terminal block type Response time 1.5ms	IP2)
		AJ65SBTB3-8D	Input 8 points: 24VDC (positive/negative common shared) 3-wire type Terminal block type Response time 1.5ms	IP2)
		AJ65SBTB1-16D	Input 16 points: 24VDC (positive/negative common shared) 1-wire type Terminal block type Response time 1.5ms	IP2)
		AJ65SBTB1-16D1	Input 16 points: 24VDC (positive/negative common shared) 1-wire type High-speed response Terminal block type Response time 0.2ms	IP2
		AJ65SBTB3-16D	Input 16 points: 24VDC (positive/negative common shared) 3-wire type Terminal block type Response time 1.5ms	IP2
		AJ65SBTB3-16D5	Input 16 points: 5VDC (positive/negative common shared) 3-wire type Terminal block type Response time 1.5ms	IP2
		AJ65SBTB3-16KD	Input 16 points: 24VDC (positive/negative common shared) 3-wire type Terminal block type Response time 0.2/1.5/5/10ms switching type	IP2
		AJ65SBTB1-32D	Input 32 points: 24VDC (positive/negative common shared) 1-wire type Terminal block type Response time 1.5ms	IP2
		AJ65SBTB1-32D1	Input 32 points: 24VDC (positive/negative common shared) 1-wire type High-speed response Terminal block type Response time 0.2ms	IP2
		AJ65SBTB1-32D5	Input 32 points: 5VDC (positive/negative common shared) 1-wire type Terminal block type Response time 1.5ms	IP2
		AJ65SBTB1-32KD	Input 32 points: 24VDC (positive/negative common shared) 1-wire type Terminal block type Response time 0.2/1.5/5/10ms switching type	IP2
		AJ65SBTB1-8T	Output 8 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type	IP2
		AJ65SBTB1-8T1	Output 8 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type)	IP2
		AJ65SBTB2-8T	Output 8 points: 12/24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type	IP2
		AJ65SBTB2-8T1	Output 8 points: 12/24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type)	IP2
		AJ65SBTB1-16T AJ65SBTB1-16T1	Output 16 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type	IP2
		AJ65SBTB2-16T	Output 16 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type)	IP2
		AJ65SBTB2-16T1	Output 16 points: 12/24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type Output 16 points: 12/24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type)	IP2
		AJ65SBTB1-32T	Output 32 points: 12/24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (owneakage current type) Output 32 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type	IP:
		AJ65SBTB1-32T1	Output 32 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type)	IP:
		AJ65SBTB1-8TE	Output 8 points: 12/24VDC (0.1A) Transistor output (source type) 1-wire type Terminal block type	IP
		AJ65SBTB1-16TE	Output 16 points: 12/24VDC (0.1A) Transistor output (source type) 1-wire type Terminal block type	IP
		AJ65SBTB1B-16TE1	Output 16 points: 12/24VDC (0.5A) Transistor output (source type) 1-wire type Terminal block type	IP.
		AJ65SBTB1-32TE1	Output 32 points: 12/24VDC (0.5A) Transistor output (source type) 1-wire type Terminal block type	IP.
		AJ65SBTB2N-8R	Output 8 points: 24VDC/240VAC (2A) Relay output 2-wire type Terminal block type	IP
		AJ65SBTB2N-16R	Output 16 points: 24VDC/240VAC (2A) Relay output 2-wire type Terminal block type	IP
		AJ65SBTB2N-8S	Output 8 points: 100 to 240VAC (0.6A) Triac output 2-wire type Terminal block type	IP
		AJ65SBTB2N-16S	Output 16 points: 100 to 240VAC (0.6A) Triac output 2-wire type Terminal block type	IP.
		AJ65SBTB32-8DT	Input 4 points: 24VDC (positive common) 3-wire type Response time 1.5ms	IP2
			Output 4 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type Input 4 points: 24VDC (positive common) 3-wire type Response time 1.5ms	
mote	Screw terminal block type	AJ65SBTB32-8DT2	Output 4 points: 24VDC (bositive common) 5-wire type response time 1.5ms Output 4 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type)	IP2
module	Ocrew terminal block type		Input 8 points: 24VDC (positive common)1-wire type Response time 1.5ms	
		AJ65SBTB1-16DT	Output 8 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type	IP:
			Input 8 points: 24VDC (positive common)1-wire type High-speed response Response time 0.2ms	
		AJ65SBTB1-16DT1	Output 8 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type	IP:
			input 8 points: 24VDC (positive common) 1-wire type Response time 1.5ms	
		AJ65SBTB1-16DT2	Output 8 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type)	IP:
		AJ65SBTB1-16DT3	Input 8 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms	IP:
		AJ055B1B1-10D15	Output 8 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type)	
		AJ65SBTB32-16DT	Input 8 points: 24VDC (positive common) 3-wire type Response time 1.5ms	IP
		A0030D1D02-10D1	Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type	
		AJ65SBTB32-16DT2	Input 8 points: 24VDC (positive common) 3-wire type Response time 1.5ms	IP.
			Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type)	-
		AJ65SBTB32-16KDT2	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type	IP
			Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type)	-
		AJ65SBTB32-16KDT8	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2/1.5/5/10ms switching type	IP.
			Output 8 points: 12VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type (low-leakage current type)	-
		AJ65SBTB32-16KDR	Input 8 points: 24VDC (positive/negative common shared) 3-wire type Response time 0.2/1.5/5/10ms switching type Output 8 points: 24VDC/240VAC (2A) Relay output 2-wire type Terminal block type	IP
			Input 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms	
		AJ65SBTB1-32DT	Output16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type	IP
			Input 16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms	
		AJ65SBTB1-32DT1	Output16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type	IP
			Input 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms	L.,
		AJ65SBTB1-32DT2	Output16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type)	IP
		A ISSOTTA ANDTO	Input 16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms	
		AJ65SBTB1-32DT3	Output16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type)	IP
		A ISSERTE1 20DTE1	Input 16 points: 24VDC (negative common) 1-wire type High-speed response Response time 1.5ms	IP
		AJ65SBTB1-32DTE1	Output16 points: 24VDC (0.5A) Transistor output (source type) 1-wire type Terminal block type	
		AJ65SBTB32-16DR	Input 8 points: 24VDC (positive/negative common shared) 3-wire type Response time 1.5ms	IP
		AJ03301032-10DR	Output 8 points: 24VDC/240VAC (2A) Relay output 2-wire type Terminal block type	
		AJ65SBTB1-32KDT2	Input 16 points: 24VDC (positive common) 1-wire type Response time 0.2/1.5/5/10ms switching type	IP:
		AJUJJU DI-J2KU12	Output16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type)	
		AJ65SBTB1-32KDT8	Input 16 points: 12VDC (positive common) 1-wire type Response time 0.2/1.5/5/10ms switching type	IP

	Module type	Model name	Specifications	Protectior level
		AJ65BTB1-16D	Input 16 points: 24VDC (positive/negative common shared) 1-wire type Terminal block type Response time 10ms	IP2X
		AJ65BTB2-16D	Input 16 points: 24VDC (positive/negative common shared) 2-wire type Terminal block type Response time 10ms	IP2X
		AJ65BTB1-16T	Output 16 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type	IP2X
				-
	Screw/2-piece terminal block type	AJ65BTB2-16T	Output 16 points: 12/24VDC (0.5A) Transistor output (sink type) 2-wire type Terminal block type	IP2X
		AJ65BTB2-16R	Output 16 points: 24VDC/240VAC (2A) Relay output 2-wire type Terminal block type	IP1X
		AJ65BTB1-16DT	Input 8 points: 24VDC (positive common) Response time 10ms	IP2X
			Output 8 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 8 points: 24VDC (positive common) Response time 10ms	
		AJ65BTB2-16DT	Output 8 points: 12/24VDC (0.5A)Transistor output (sink type) 2-wire type Terminal block type	IP2X
		AJ65BTB2-16DR	Input 8 points: 24VDC (positive/negative common shared) Response time 10ms	IP1X
			Output 8 points: 24VDC/240VAC (2A) Relay output 2-wire type Terminal block type	18.614
		AJ65DBTB1-32D	Input 32 points: 24VDC (positive/negative common shared) 1-wire type Terminal block type Response time 10ms	IP2X
		AJ65DBTB1-32T1	Output 32 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type (low-leakage current type)	IP2X
	Screw/2-piece terminal block	AJ65DBTB1-32R	Output 32 points: 24VDC/240VAC (2A) Relay output 1-wire type Terminal block type	IP1X
	Dustproof type	AJ65DBTB1-32DT1	Input 16 points: 24VDC (positive common) Response time 10ms	IP2X
			Output 16 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type Terminal block type Input 16 points: 24VDC (positive/negative common shared) Response time 10ms	
		AJ65DBTB1-32DR	Output 16 points: 24VDC/240VAC (2A) Relay output 1-wire type Terminal block type	IP1X
	Spring clamp terminal block	AJ65ABTP3-16D	Input 16 points: 24VDC/6mA (positive common) 3-wire type Response time 1.5ms *1	IP1XB
	push-in type	AJ65ABTP3-16DE	Input 16 points: 24VDC/6mA (negative common) 3-wire type Response time 1.5ms *1	IP1XB
		AJ65VBTS3-16D	Input 16 points: 24VDC/5mA (negative common) 3-wire type Response time 1.5ms	IP1XB
		AJ65VBTS3-32D	Input 32 points: 24VDC/5mA (negative common) 3-wire type Response time 1.5ms	IP1XB
		AJ65VBTS2-16T	Output 16 points: 12/24VDC (0.5A) Transistor output (sink type) 2-wire type	IP1XB
	Spring clowp			IP1XB
	Spring clamp	AJ65VBTS2-32T	Output 32 points: 12/24VDC (0.5A) Transistor output (sink type) 2-wire type	IF IAB
	terminal block type	AJ65VBTS32-16DT	Input 8 points: 24VDC/5mA (positive common) 3-wire type Response time 1.5ms Output 8 points: 24VDC (0.5A) Transistor output (sink type) 2-wire type	IP1XB
			Input 16 points: 24VDC/5mA (positive common) 32-wire type Response time 1.5ms	
		AJ65VBTS32-32DT	Output 16 points: 12/24VDC (0.5A) Transistor output (sink type) 2-wire type	IP1XB
		AJ65VBTCE3-8D	Input 8 points: 24VDC/5mA (positive common) 3-wire type Response time 1.5ms	IP1XB
	Sensor connector type	AJ65VBTCE3-16D	Input 16 points: 24VDC/5mA (positive common) 3-wire type Response time 1.5ms	IP1XB
		AJ65VBTCE3-32D	Input 32 points: 24VDC/5mA (positive common) 3-wire type Response time 1.5ms	IP1XB
		AJ65VBTCE3-16DE	Input 16 points: 24VDC/5mA (negative common) 3-wire type Response time 1.5ms	IP1XB
		AJ65VBTCE3-32DE	Input 32 points: 24VDC/5mA (negative common) 3-wire type Response time 1.5ms	IP1XB
		AJ65VBTCE2-8T	Output 8 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type	IP1XB
		AJ65VBTCE2-16T	Output 16 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type	IP1XB
		AJ65VBTCE3-16TE	Output 16 points: 12/24VDC (0.1A) Transistor output (source type) 3-wire type	IP1XB
		AUGVETOLOTION		
		AJ65VBTCE32-16DT	Input 8 points: 24VDC/5mA (positive common) 3-wire type Response time 1.5ms Output 8 points: 24VDC (0.1A) Transistor output (sink type) 2-wire type	IP1XB
Remote		AJ65VBTCE3-16DTE	Input 8 points: 24VDC/5mA (negative common) 3-wire type Response time 1.5ms	IP1XB
I/O module			Output 8 points: 24VDC (0.1A) Transistor output (source type) 3-wire type Input 16 points: 24VDC/5mA (positive common) 3-wire type Response time 1.5ms	
		AJ65VBTCE32-32DT	Output 16 points: 24VDC (0.1A) Transistor output (sink type) 2-wire type	IP1XB
		AJ65VBTCE3-32DTE	Input 16 points: 24VDC/5mA (negative common) 3-wire type Response time 1.5ms	
			Output 16 points: 24VDC (0.1A) Transistor output (source type) 3-wire type	IPIXB
				IP1XB
		AJ65VBTCU3-8D1	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type	IP1XB
		AJ65VBTCU3-8D1 AJ65VBTCU3-16D1	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type	IP1XB IP1XB
		AJ65VBTCU3-8D1 AJ65VBTCU3-16D1 AJ65SBTC4-16DN	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type	IP1XB IP1XB IP2X
		AJ65VBTCU3-8D1 AJ65VBTCU3-16D1	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type	IP1XB IP1XB
		AJ65VBTCU3-8D1 AJ65VBTCU3-16D1 AJ65SBTC4-16DN AJ65SBTC4-16DE	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 16 points: 24VDC (negative common) 4-wire type Response time 1.5ms One-touch connector type Input 16 points: 24VDC (negative common) 4-wire type Response time 1.5ms One-touch connector type Input 32 points: 24VDC (positive/negative common shared) 1-wire type 1-wire type	IP1XB IP1XB IP2X IP2X
		AJ65VBTCU3-8D1 AJ65VBTCU3-16D1 AJ65SBTC4-16DN	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 16 points: 24VDC (negative common) 4-wire type Response time 1.5ms One-touch connector type Input 16 points: 24VDC (negative common) 4-wire type Response time 1.5ms One-touch connector type Input 32 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type One-touch connector type	IP1XB IP1XB IP2X
		AJ65VBTCU3-8D1 AJ65VBTCU3-16D1 AJ65SBTC4-16DN AJ65SBTC4-16DE	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 16 points: 24VDC (positive/negative common shared) 1-wire type Sone-touch connector type One-touch connector type Input 32 points: 24VDC (positive/negative common shared) 1-wire type Sone-touch connector type One-touch connector type	IP1XB IP1XB IP2X IP2X
		AJ65VBTCU3-8D1 AJ65VBTCU3-16D1 AJ65SBTC4-16DN AJ65SBTC4-16DE AJ65SBTC1-32D AJ65SBTC1-32D1	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 16 points: 24VDC (negative common) 4-wire type Response time 1.5ms One-touch connector type Input 16 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type (plug: sold separately) Response time 1.5ms Input 32 points: 24VDC (positive/negative common shared) 1-wire type High-speed response One-touch connector type (plug: sold separately) Response time 0.2ms	IP1XB IP1XB IP2X IP2X IP2X IP2X IP2X
		AJ65VBTCU3-8D1 AJ65VBTCU3-16D1 AJ65SBTC4-16DN AJ65SBTC4-16DE AJ65SBTC1-32D AJ65SBTC1-32D1 AJ65VBTCU2-8T	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 16 points: 24VDC (positive/negative common shared) 1-wire type Response time 1.5ms One-touch connector type (plug: sold separately) One-touch connector type (plug: sold separately) Response time 1.5ms Input 10 positive/negative common shared) Input 32 points: 24VDC (positive/negative common shared) 1-wire type Input 32 points: 24VDC (positive/negative common shared) Input 32 points: 24VDC (positive/negative common shared) 1-wire type Input 10 positive/negative common shared) 1-wire type High-speed response One-touch connector type (plug: sold separately) Response time 0.2ms 0.2ms Output 8 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type	IP1XB IP1XB IP2X IP2X IP2X IP2X IP2X IP1XB
		AJ65VBTCU3-8D1 AJ65VBTCU3-8D1 AJ65SBTC4-16DN AJ65SBTC4-16DE AJ65SBTC1-32D AJ65SBTC1-32D1 AJ65VBTCU2-8T AJ65VBTCU2-8T	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 16 points: 24VDC (negative common) 4-wire type Response time 1.5ms One-touch connector type Input 32 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type (plug: sold separately) Response time 1.5ms Input 32 points: 24VDC (positive/negative common shared) 1-wire type High-speed response One-touch connector type (plug: sold separately) Response time 0.2ms Output 8 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 16 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type	IP1XB IP1XB IP2X IP2X IP2X IP2X IP2X IP1XB IP1XB
		AJ65VBTCU3-8D1 AJ65VBTCU3-16D1 AJ65SBTC4-16DN AJ65SBTC4-16DE AJ65SBTC1-32D AJ65SBTC1-32D1 AJ65VBTCU2-8T AJ65VBTCU2-16T AJ65SBTC1-32T	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 18 points: 24VDC (negative common) 4-wire type Response time 1.5ms One-touch connector type Input 32 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type (plug: sold separately) Response time 1.5ms Input 32 points: 24VDC (positive/negative common shared) 1-wire type High-speed response One-touch connector type (plug: sold separately) Response time 0.2ms Output 8 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 16 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type	IP1XB IP1XB IP2X IP2X IP2X IP2X IP1XB IP1XB IP2X
	One-touch connector type	AJ65VBTCU3-8D1 AJ65VBTCU3-8D1 AJ65SBTC4-16DN AJ65SBTC4-16DE AJ65SBTC1-32D AJ65SBTC1-32D1 AJ65VBTCU2-8T AJ65VBTCU2-8T	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 16 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type (plug: sold separately) Response time 1.5ms Input 32 points: 24VDC (positive/negative common shared) 1-wire type High-speed response One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink typ	IP1XB IP1XB IP2X IP2X IP2X IP2X IP2X IP1XB IP1XB IP2X IP2X
	One-touch connector type	AJ65VBTCU3-8D1 AJ65VBTCU3-16D1 AJ65SBTC4-16DN AJ65SBTC4-16DE AJ65SBTC1-32D AJ65SBTC1-32D1 AJ65VBTCU2-8T AJ65VBTCU2-16T AJ65SBTC1-32T	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 16 points: 24VDC (positive/negative common) 4-wire type Response time 1.5ms One-touch connector type Input 16 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type (plug: sold separately) Response time 1.5ms Input 32 points: 24VDC (positive/negative common shared) 1-wire type High-speed response One-touch connector type (plug: sold separately) High-speed response One-touch connector type (plug: sold separately) Response time 0.2ms Output 8 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (low-leakage current type) Input 8 points: 24VDC (positi	IP1XB IP1XB IP2X IP2X IP2X IP2X IP1XB IP1XB IP2X
	One-touch connector type	AJ65VBTCU3-8D1 AJ65VBTCU3-16D1 AJ65SBTC4-16DN AJ65SBTC4-16DE AJ65SBTC1-32D AJ65SBTC1-32D1 AJ65VBTCU2-8T AJ65VBTCU2-16T AJ65SBTC1-32T AJ65SBTC1-32T1 AJ65SBTC4-16DT	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 16 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type (plug: sold separately) Response time 1.5ms Input 32 points: 24VDC (positive/negative common shared) 1-wire type High-speed response One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink typ	IP1XB IP1XB IP2X IP2X IP2X IP2X IP1XB IP1XB IP2X IP2X IP2X
	One-touch connector type	AJ65VBTCU3-8D1 AJ65VBTCU3-16D1 AJ65SBTC4-16DN AJ65SBTC4-16DE AJ65SBTC1-32D AJ65SBTC1-32D1 AJ65VBTCU2-8T AJ65VBTCU2-8T AJ65VBTCU2-16T AJ65SBTC1-32T AJ65SBTC1-32T1	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 16 points: 24VDC (positive/negative common) 4-wire type Response time 1.5ms One-touch connector type Input 32 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type (plug: sold separately) Response time 1.5ms Input 32 points: 24VDC (positive/negative common shared) 1-wire type High-speed response One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 16 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (l	IP1XB IP1XB IP2X IP2X IP2X IP2X IP2X IP1XB IP1XB IP2X IP2X
	One-touch connector type	AJ65VBTCU3-8D1 AJ65VBTCU3-16D1 AJ65SBTC4-16DN AJ65SBTC4-16DE AJ65SBTC1-32D AJ65SBTC1-32D1 AJ65VBTCU2-8T AJ65VBTCU2-16T AJ65SBTC1-32T AJ65SBTC1-32T1 AJ65SBTC4-16DT	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 32 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type (plug: sold separately) Response time 1.5ms Input 32 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type (plug: sold separately) Response time 1.5ms Input 32 points: 24VDC (positive/negative common shared) 1-wire type High-speed response One-touch connector type (plug: sold separately) Response time 0.2ms Output 8 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 16 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (low-leakage current type) Input 8 points: 24VDC (positive common) 4-wire type One-touch connector type (plug: sold separately) Input 8 points: 24VDC (0.5A) Transistor output (sink type) 4-wire type One-touch connector type (plug: sold separately) Input 8 points: 24VDC (0.5A) Transistor output (sink type) 4-wire type One-touch connector type (plug: sold separately) Input 8 points: 24VDC (0.5A) Transistor output (sink type) 4-wire type One-touch connector type (plug: sold separately) Input 8 points: 24VDC (0.5A) Transistor output (sink type) 4-wire type One-touch connector type (plug: sold separately) Input 8 points: 24VDC (positive common) 4-wire type Response time 1.5ms Output 8 points: 24VDC (positive common) 4-	IP1XB IP1XB IP2X IP2X IP2X IP2X IP1XB IP1XB IP2X IP2X IP2X
	One-touch connector type	AJ65VBTCU3-8D1 AJ65VBTCU3-16D1 AJ65SBTC4-16DN AJ65SBTC4-16DE AJ65SBTC1-32D AJ65SBTC1-32D1 AJ65SBTC1-32D1 AJ65VBTCU2-8T AJ65VBTCU2-16T AJ65SBTC1-32T1 AJ65SBTC4-16DT2 AJ65SBTC4-16DT2 AJ65SBTC4-16DT2	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 16 points: 24VDC (positive/negative common) 4-wire type Response time 1.5ms One-touch connector type Input 32 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type (plug: sold separately) Response time 1.5ms Input 32 points: 24VDC (positive/negative common shared) 1-wire type High-speed response One-touch connector type (plug: sold separately) Output 8 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type One-touch connector type (low-leakage current type) Input 8 poi	IP1XB IP1XB IP2X IP2X IP2X IP2X IP2X IP1XB IP1XB IP2X IP2X IP2X IP2X
	One-touch connector type	AJ65VBTCU3-8D1 AJ65VBTCU3-16D1 AJ65SBTC4-16DR AJ65SBTC4-16DE AJ65SBTC1-32D AJ65SBTC1-32D1 AJ65VBTCU2-8T AJ65VBTCU2-16T AJ65SBTC1-32T1 AJ65SBTC1-32T1 AJ65SBTC4-16DT2 AJ65SBTC4-16DT2 AJ65SBTC1-32DT1	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 32 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type (plug: sold separately) Response time 1.5ms Input 32 points: 24VDC (positive/negative common shared) 1-wire type High-speed response One-touch connector type (plug: sold separately) Response time 0.2ms Output 8 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 16 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 16 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 16 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Input 8 points: 24VDC (positive common) 4-wire type (Response time 1.5ms Output 8 points: 24VDC (positive common) 4-wire type Response time 1.5ms Output 8 points: 24VDC (Dositive common) 4-wire type Response time 1.5ms Output 8 points: 24VDC (positive common) 4-wire type Response time 1.5ms Output 8 points: 24VDC (positive common) 4-wire type Response time 1.5ms Output 8 points: 24VDC (positive common) 4-wire type Response time 1.5ms Output 16 points: 24VDC (Dositive common) 1-wire type High-speed response Response time 0.2ms Output 16 points: 24VDC (positive common) 1-wire type Response time 0.2ms Output 16 points: 24VDC (0.	IP1XB IP1XB IP2X IP2X IP2X IP2X IP2X IP1XB IP1XB IP2X IP2X IP2X IP2X IP2X
	One-touch connector type	AJ65VBTCU3-8D1 AJ65VBTCU3-16D1 AJ65SBTC4-16DN AJ65SBTC4-16DE AJ65SBTC1-32D AJ65SBTC1-32D1 AJ65SBTC1-32D1 AJ65VBTCU2-8T AJ65VBTCU2-16T AJ65SBTC1-32T1 AJ65SBTC4-16DT2 AJ65SBTC4-16DT2 AJ65SBTC4-16DT2	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 16 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type (plug: sold separately) Response time 1.5ms One-touch connector type (plug: sold separately) Response time 1.5ms Input 32 points: 24VDC (positive/negative common shared) 1-wire type High-speed response One-touch connector type (plug: sold separately) Response time 0.2ms Output 8 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 16 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Input 8 points: 24VDC (positive common) 4-wire type Gne-touch connector type (plug: sold separately) Input 8 points: 24VDC (positive common) 4-wire type A-wire type One-touch connector type (plug: sold separately) Input 8 points: 24VDC (D-5A) Transistor output (sink type) 4-wire type One-touch connector type (plug: sold separately) Input 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms Output 16 points: 24VDC (positive common) 1-wire type High-speed response time 0.2ms Output 16 points: 24VDC (positive common) 1-wire type High-speed response time 0.2ms Output 16 points: 2	IP1XB IP1XB IP2X IP2X IP2X IP2X IP2X IP1XB IP1XB IP2X IP2X IP2X IP2X
	One-touch connector type	AJ65VBTCU3-8D1 AJ65VBTCU3-16D1 AJ65SBTC4-16DR AJ65SBTC4-16DE AJ65SBTC1-32D AJ65SBTC1-32D1 AJ65VBTCU2-8T AJ65VBTCU2-16T AJ65SBTC1-32T1 AJ65SBTC1-32T1 AJ65SBTC4-16DT2 AJ65SBTC4-16DT2 AJ65SBTC1-32DT1	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 32 points: 24VDC (negative common) 4-wire type Response time 1.5ms One-touch connector type Input 32 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type (plug: sold separately) Response time 1.5ms Input 32 points: 24VDC (positive/negative common shared) 1-wire type High-speed response One-touch connector type (plug: sold separately) Response time 0.2ms Output 8 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 16 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 16 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Input 8 points: 24VDC (positive common) 4-wire type Response time 1.5ms Output 8 points: 24VDC (positive common) 4-wire type Response time 1.5ms Output 8 points: 24VDC (positive common) 4-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms Output 16 points: 24VDC (positive common) 1-wire type Response time 0.2ms Output 16 points: 24VDC (pos	IP1XB IP1XB IP2X IP2X IP2X IP2X IP2X IP1XB IP1XB IP2X IP2X IP2X IP2X IP2X
	One-touch connector type	AJ65VBTCU3-8D1 AJ65VBTCU3-8D1 AJ65VBTCU3-16D1 AJ65SBTC4-16DN AJ65SBTC4-16DE AJ65SBTC1-32D AJ65SBTC1-32D1 AJ65SBTC1-32D1 AJ65SBTC1-32D1 AJ65SBTC4-16DT AJ65SBTC4-16DT2 AJ65SBTC4-16DT2 AJ65SBTC1-32DT1 AJ65SBTC1-32DT1 AJ65SBTC1-32DT2	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 32 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type (plug: sold separately) Response time 1.5ms Input 32 points: 24VDC (positive/negative common shared) 1-wire type High-speed response One-touch connector type (plug: sold separately) Response time 0.2ms Output 8 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Input 8 points: 24VDC (positive common) 4-wire type Response time 1.5ms Output 8 points: 24VDC (0.5A) Transistor output (sink type) 4-wire type One-touch connector type (plug: sold separately) Input 8 points: 24VDC (0.5A) Transistor output (sink type) 4-wire type One-touch connector type (plug: sold separately) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Input 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 1-wire type Response time 0.2ms Output 16	IP1XB IP1XB IP2X IP2X IP2X IP2X IP1XB IP1XB IP1XB IP2X IP2X IP2X IP2X IP2X IP2X
	One-touch connector type	AJ65VBTCU3-8D1 AJ65VBTCU3-8D1 AJ65VBTCU3-16D1 AJ65SBTC4-16DR AJ65SBTC4-16DE AJ65SBTC1-32D AJ65SBTC1-32D1 AJ65SBTC1-32D1 AJ65SBTC1-32D1 AJ65SBTC4-16DT AJ65SBTC4-16DT2 AJ65SBTC4-16DT2 AJ65SBTC1-32DT1 AJ65SBTC1-32DT1 AJ65SBTC1-32DT2 AJ65SBTC1-32DT3 AJ65SBTC1-32DT3 AJ65SBTC1-32DT3	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (negative common) 4-wire type Response time 1.5ms One-touch connector type Input 32 points: 24VDC (negative common) 4-wire type Response time 1.5ms One-touch connector type Input 32 points: 24VDC (positive/negative common shared) 1-wire type Might 32 points: 24VDC (positive/negative common shared) 1-wire type High-speed response One-touch connector type (plug: sold separately) Response time 0.2ms Output 8 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 16 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Input 8 points: 24VDC (positive common) 4-wire type (for 8 sensors) Response time 1.5ms Output 8 points: 24VDC (cosh) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Input 8 points: 24VDC (cosh) Transistor output (sink type) 4-wire type One-touch connector type (plug: sold separately) Input 16 points: 24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Input 16 points: 24VDC (Dositive common) 1-wire type Response time 1.5ms Output 16 points: 24VDC (Dositive common) 1-wire type High-speed response Response time 0.2ms Output 16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms Output 16 points: 24	IP1XB IP1XB IP2X IP2X IP2X IP2X IP2X IP2X IP2X IP2X
	One-touch connector type	AJ65VBTCU3-8D1 AJ65VBTCU3-8D1 AJ65SBTC4-16DN AJ65SBTC4-16DE AJ65SBTC1-32D AJ65SBTC1-32D AJ65SBTC1-32D1 AJ65SBTC1-32D1 AJ65SBTC1-32T1 AJ65SBTC4-16DT2 AJ65SBTC4-16DT2 AJ65SBTC4-16DT2 AJ65SBTC1-32DT1 AJ65SBTC1-32DT1 AJ65SBTC1-32DT2 AJ65SBTC1-32DT3 AJ65SBTC1-32DT3 AJ65SBTC1-32D	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (negative common) 4-wire type Response time 1.5ms One-touch connector type Input 32 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type (plug: sold separately) Response time 1.5ms Input 32 points: 24VDC (positive/negative common shared) 1-wire type High-speed response One-touch connector type (plug: sold separately) Response time 0.2ms Output 8 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 16 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 21/24VDC (0.5A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Input 8 points: 24VDC (positive common) 4-wire type (ne sensors) Response time 1.5ms Output 8 points: 24VDC (positive common) 4-wire type Response time 1.5ms Output 8 points: 24VDC (positive common) 4-wire type Response time 1.5ms Output 8 points: 24VDC (positive common) 1-wire type Hepsonse time 1.5ms Output 16 points: 24VDC (positive common) 1-wire type Pone-touch connector type (plug: sold separately) (low-leakage current type) Input 16 points: 24VDC (positive common) 1-wire type Response time 0.2ms Output 16 points: 24VDC (positive common) 1-wire type Response time 0.2ms Output 16 points: 24VDC (positive common) 1-wire type Response time 0.2ms Output 16 points: 24VDC (positive common) 1-wire type High-speed response Response time 0.2ms Output 1	IP1XB IP1XB IP1XB IP2X IP2X IP2X IP1XB IP1XB IP1XB IP1XB IP2X
	One-touch connector type	AJ65VBTCU3-8D1 AJ65VBTCU3-16D1 AJ65SBTC4-16DN AJ65SBTC4-16DE AJ65SBTC1-32D AJ65SBTC1-32D1 AJ65SBTC1-32D1 AJ65SBTC1-32D1 AJ65SBTC1-32T1 AJ65SBTC1-32T1 AJ65SBTC4-16DT2 AJ65SBTC4-16DT2 AJ65SBTC1-32DT1 AJ65SBTC1-32DT1 AJ65SBTC1-32DT2 AJ65SBTC1-32DT3 AJ65SBTC1-32DT3 AJ65SBTC1-32D AJ65SBTC1-32D AJ65SBTC1-32D AJ65SBTC1-32D	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (negative common) 4-wire type Response time 1.5ms One-touch connector type Input 32 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type (plug: sold separately) Response time 1.5ms Input 32 points: 24VDC (positive/negative common shared) 1-wire type High-speed response One-touch connector type (plug: sold separately) Response time 0.2ms Output 8 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 16 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 16 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Input 8 points: 24VDC (positive common) 4-wire type Response time 1.5ms Output 8 points: 24VDC (positive common) 4-wire type Response time 1.5ms Output 8 points: 24VDC (positive common) 4-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 1-wire type Heigh-speed response Response time 0.2ms Output 16 points: 24VDC (positive common) 1-wire type Heigh-speed response Response time 0.2ms Output 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 1-wire type Heigh-speed response Response time 0.2ms Output 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output 16	IP1XB IP1XB IP2X IP2X IP2X IP2X IP1XB IP1XB IP1XB IP2X
		AJ65VBTCU3-8D1 AJ65VBTCU3-8D1 AJ65SBTC4-16DN AJ65SBTC4-16DE AJ65SBTC1-32D AJ65SBTC1-32D AJ65SBTC1-32D1 AJ65SBTC1-32D1 AJ65SBTC1-32T1 AJ65SBTC4-16DT2 AJ65SBTC4-16DT2 AJ65SBTC4-16DT2 AJ65SBTC1-32DT1 AJ65SBTC1-32DT1 AJ65SBTC1-32DT2 AJ65SBTC1-32DT3 AJ65SBTC1-32DT3 AJ65SBTC1-32D	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (negative common) 4-wire type Response time 1.5ms One-touch connector type Input 32 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type (plug: sold separately) Response time 1.5ms Input 32 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type (plug: sold separately) Response time 1.5ms Input 32 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 8 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 24VDC (positive common) 4-wire type (for 8 sensors) Response time 1.5ms Output 8 points: 24VDC (0.5A) Transistor output (sink type) 4-wire type One-touch connector type (plug: sold separately) Input 8 points: 24VDC (0.5A) Transistor output (sink type) 4-wire type One-touch connector type (plug: sold separately) Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output 16 points: 24VDC (positiv	IP1XB IP1XB IP1XB IP2X IP2X IP2X IP1XB IP1XB IP1XB IP1XB IP2X
	40-pin connector type	AJ65VBTCU3-8D1 AJ65VBTCU3-16D1 AJ65SBTC4-16DN AJ65SBTC4-16DE AJ65SBTC1-32D AJ65SBTC1-32D1 AJ65SBTC1-32D1 AJ65SBTC1-32D1 AJ65SBTC1-32T1 AJ65SBTC1-32T1 AJ65SBTC4-16DT2 AJ65SBTC4-16DT2 AJ65SBTC1-32DT1 AJ65SBTC1-32DT1 AJ65SBTC1-32DT2 AJ65SBTC1-32DT3 AJ65SBTC1-32DT3 AJ65SBTC1-32D AJ65SBTC1-32D AJ65SBTC1-32D AJ65SBTC1-32D	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 32 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type (plug: sold separately) Response time 1.5ms Input 32 points: 24VDC (positive/negative common shared) 1-wire type High-speed response One-touch connector type (plug: sold separately) Response time 0.2ms Output 8 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Input 8 points: 24VDC (positive common) 4-wire type Response time 1.5ms Output 8 points: 24VDC (0.5A) Transistor output (sink type) 4-wire type One-touch connector type (plug: sold separately) Input 8 points: 24VDC (0.5A) Transistor output (sink type) 4-wire type One-touch connector type (plug: sold separately) Input 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 1-wire type Response time 0.2ms Output 16 points: 24VDC (positive common) 1-wire type Response time 0.2ms Output 16 points: 24VDC (positive common) 1-wire type Response time 0.2ms Output 16 points: 24VDC (positive common) 1-wire type	IP1XB IP1XB IP2X IP2X IP2X IP2X IP1XB IP1XB IP1XB IP2X
		AJ65VBTCU3-8D1 AJ65VBTCU3-8D1 AJ65SBTC4-16DN AJ65SBTC4-16DE AJ65SBTC1-32D AJ65SBTC1-32D AJ65SBTC1-32D1 AJ65SBTC1-32T AJ65SBTC1-32T AJ65SBTC4-16DT AJ65SBTC4-16DT2 AJ65SBTC4-16DT2 AJ65SBTC1-32DT1 AJ65SBTC1-32DT1 AJ65SBTC1-32DT2 AJ65SBTC1-32DT3 AJ65SBTC1-32DT3 AJ65SBTC1-32D AJ65SBTC1-32D AJ65SBTC1-32D AJ65SBTC1-32D AJ65SBTC1-32D AJ65SBTC1-32T AJ65SBTC1-32T	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 32 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type (plug: sold separately) Response time 1.5ms One-touch connector type One-touch connector type (plug: sold separately) Response time 1.5ms One-touch connector type (plug: sold separately) Response time 1.5ms Input 32 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type (plug: sold separately) Response time 0.2ms Output 8 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type Input 8 points: 24VDC (positive common) 4-wire type (Ne 8 sensors) Response time 1.5ms Output 32 points: 24VDC (0.5A) Transistor output (sink type) 4-wire type One-touch connector type (plug: sold separately) Input 8 points: 24VDC (positive common) 4-wire type Response time 1.5ms Output 8 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 1-wire type Response time 0.2ms Output 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 1-wire type Response Response time 0.2ms Output 16 points: 24VDC (positive common) 1-wire type Pere-touch connector type (plug: sold separately) Input 16 points: 24VDC (positive common) 1-wire type Pere-touch connector type (plug: sold separately) Input 16 points: 24VDC (positive common) 1-wire type Response time 0.2ms Output 16 points: 24VDC (positive common) 1-wir	IP1XB IP1XB IP1XB IP2X IP2X IP2X IP1XB IP1XB IP1XB IP2X IP2X
	40-pin connector type	AJ65VBTCU3-8D1 AJ65VBTCU3-8D1 AJ65SBTC4-16DN AJ65SBTC4-16DE AJ65SBTC1-32D AJ65SBTC1-32D AJ65SBTC1-32D1 AJ65SBTC1-32T AJ65SBTC1-32T AJ65SBTC4-16DT AJ65SBTC4-16DT2 AJ65SBTC4-16DT2 AJ65SBTC1-32DT1 AJ65SBTC1-32DT1 AJ65SBTC1-32DT2 AJ65SBTC1-32DT3 AJ65SBTC1-32DT3 AJ65SBTC1-32D AJ65SBTC1-32D AJ65SBTC1-32D AJ65SBTC1-32D AJ65SBTC1-32D AJ65SBTC1-32T AJ65SBTC1-32T	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 32 points: 24VDC (positive/negative common shared) 1-wire type Response time 0.2ms One-touch connector type (plug: sold separately) One-touch connector type (plug: sold separately) Response time 0.2ms Output 8 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 8 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Output 32 points: 12/24VDC (0.5A) Transistor output (sink type) 1-wire type One-touch connector type (low-leakage current type) Input 8 points: 24VDC (positive common) 4-wire type Response time 1.5ms Output 48 points: 24VDC (0.5A) Transistor output (sink type) 4-wire type One-touch connector type (plug: sold separately) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type One-touch connector type (plug: sold separately) Input 16 points: 24VDC (0.5A) Transistor output (sink type) 1-wire type One-touch connector type (pl	IP1XB IP1XB IP2X IP2X IP2X IP2X IP1XB IP1XB IP1XB IP1XB IP1XB IP2X IP2X
	40-pin connector type	AJ65VBTCU3-8D1 AJ65VBTCU3-16D1 AJ65SBTC4-16DR AJ65SBTC4-16DE AJ65SBTC1-32D AJ65SBTC1-32D1 AJ65SBTC1-32D1 AJ65SBTC1-32D1 AJ65SBTC1-32T1 AJ65SBTC4-16DT2 AJ65SBTC4-16DT2 AJ65SBTC4-16DT2 AJ65SBTC1-32DT1 AJ65SBTC1-32DT1 AJ65SBTC1-32DT2 AJ65SBTC1-32DT3 AJ65SBT	Input 8 points: 24VDC (positive common) 3-wire type Response time 0.2ms One-touch connector type Input 16 points: 24VDC (positive common) 4-wire type Response time 1.5ms One-touch connector type Input 32 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type (plug: sold separately) Response time 1.5ms One-touch connector type One-touch connector type (plug: sold separately) Response time 1.5ms One-touch connector type (plug: sold separately) Response time 1.5ms Input 32 points: 24VDC (positive/negative common shared) 1-wire type One-touch connector type (plug: sold separately) Response time 0.2ms Output 8 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 2-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type Output 32 points: 12/24VDC (0.1A) Transistor output (sink type) 1-wire type One-touch connector type Input 8 points: 24VDC (positive common) 4-wire type (Ne 8 sensors) Response time 1.5ms Output 32 points: 24VDC (0.5A) Transistor output (sink type) 4-wire type One-touch connector type (plug: sold separately) Input 8 points: 24VDC (positive common) 4-wire type Response time 1.5ms Output 8 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 1-wire type Response time 0.2ms Output 16 points: 24VDC (positive common) 1-wire type Response time 1.5ms Output 16 points: 24VDC (positive common) 1-wire type Response Response time 0.2ms Output 16 points: 24VDC (positive common) 1-wire type Pere-touch connector type (plug: sold separately) Input 16 points: 24VDC (positive common) 1-wire type Pere-touch connector type (plug: sold separately) Input 16 points: 24VDC (positive common) 1-wire type Response time 0.2ms Output 16 points: 24VDC (positive common) 1-wir	IP1XB IP1XB IP1XB IP2X IP2X IP2X IP1XB IP1XB IP1XB IP2X IP2X

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



	Module type		Model name	Specifications	Protection level
			AJ65FBTA4-16D	Input 24VDC (positive common) 4-wire type Thin, waterproof type Response time 1.5ms	IP67
			AJ65FBTA4-16DE	Input 24VDC (negative common) 4-wire type Thin, waterproof type Response time 1.5ms	IP67
	Waterproof connector type		AJ65FBTA2-16T	Output 16 points: 12/24VDC (0.5A) Transistor output (sink type) 2-wire type Thin, waterproof type	IP67
Remote			AJ65FBTA2-16TE	Output 16 points: 12/24VDC (1.0A) Transistor output (source type) 2-wire type Thin, waterproof type	IP67
/O module				Input 8 points: 24VDC (positive common) 4-wire type Response time 1.5ms	
			AJ65FBTA42-16DT	Output 8 points: 24VDC (0.5A)Transistor output sink type 2-wire type Thin, waterproof type	IP67
				Input 8 points: 24VDC (negative common) 4-wire type Response time 1.5ms	
			AJ65FBTA42-16DTE	Output 8 points: 24VDC (1.0A) Transistor output (source type) 2-wire type Thin, waterproof type	IP67
Safety relay	Spring clarr	n	QS90SR2SP-CC	For CC-Link Safety input: 1 point (2 inputs) P type (positive common/positive common input) Safety output: 1 point (3 outputs)	IP1X
module	terminal blo	•	QS90SR2SN-CC	For CC-Link Safety input: 1 point (2 inputs) N type (positive common/negative common input) Safety output: 1 point (3 outputs)	IP1X
Safety	Spring clam		0000012011-00		
Controller	terminal blo	•	WS0-GCC100202	CC-Link interface module for WS series	-
			AJ65SBT-64AD	4-channel voltage/current input A/D conversion module (analog input module)	IP2X
		Voltage/current input	AJ65SBT2B-64AD	4-channel voltage/current input A/D conversion module (analog input module) High accuracy, high resolution, high speed	IP2X
			AJ65BT-64AD	4-channel voltage/current input A/D conversion module (analog input module) Screw/2-Piece terminal block type	IP2X
			AJ65BT-64RD3	4-channel Pt100 (3-wire type) input Platinum RTD Pt100 temperature input	IP2X
			AJ65BT-64RD4	4-channel Pt100 (4-wire type) input Platinum RTD Pt100 temperature input	IP2X
	Screw	Temperature input	AJ65SBT2B-64TD	4-channel thermocouple input Thermocouple temperature input module	IP2X
	terminal		AJ65BT-68TD	8-channel thermocouple input Thermocouple temperature input module	IP2X
Analog	block type		AJ65SBT2B-64RD3	4-channel RTD input module	IP2X
module	bioon type	Voltage/current	AJ65SBT-62DA	2-channel voltage/current output D/A conversion module (analog output module)	IP2X
lineaale		output	AJ65SBT2B-64DA	4-channel voltage/current output D/A conversion module (analog output module)	IP2X
		Voltage output	AJ65BT-64DAV	4-channel voltage output D/A conversion module (analog output module)	IP2X
		Current output	AJ65BT-64DAI	4-channel current output D/A conversion module (analog output module) 4-channel current output D/A conversion module (analog output module)	IP2X
	One-touch				IP1XB
		Voltage input	AJ65VBTCU-68ADVN	8-channel voltage input A/D conversion module (analog input module) CC-Link Ver.2-compatible	-
	connector	Current input	AJ65VBTCU-68ADIN	8-channel current input A/D conversion module (analog input module) CC-Link Ver.2-compatible	IP1XB
	type	Voltage output	AJ65VBTCU-68DAVN	8-channel voltage output D/A conversion module (analog output module) CC-Link Ver.2-compatible	IP1XB
			AJ65BT-D62	DC input Preset DC input	IP2X
High-speed	d counter mo	dule	AJ65BT-D62D	Differential input Preset DC input	IP2X
			AJ65BT-D62D-S1	Differential input Preset differential input	IP2X
Positioning	module		AJ65BT-D75P2-S3	2 axes (independent, with/ linear and circular interpolation)	IP2X
RS-232 inte	erface modul	e	AJ65BT-R2N	RS-232 1-channel, with/ DC input 2 points Transistor output 2 points	IP2X
				CC-Link interface board for an IBM PC/AT compatible PC	
Interface bo	oard		Q80BD-J61BT11N	(for PCI bus slot: master station, standby master station or local station)	-
for persona	al computer			CC-Link interface board for an IBM PC/AT compatible PC	
·			Q81BD-J61BT11	(for PCI Express bus slot: master station, standby master station or local station)	-
			FX3U-64CCL	Interface block for FX3G, FX3U, FX3UC Series	-
FX Series in	interface bloc	:k	FX2N-32CCL	Interface block for FX1N, FX2N, FX3U, FX1NC, FX2NC, FX3UC Series	-
			TREVOLOGE		
	Thin water			8-port star wiring hub module with repeater function, IP67-compatible	
	Thin, water repeater hu	••	AJ65FBTA-RPH		IP67
-	repeater hu Spring clamp	b module terminal block type	AJ65FBTA-RPH AJ65BTS-RPH	8-port star wiring hub module with repeater function, Spring clamp terminal block type	IP67 -
	repeater hu Spring clamp repeater hub	b module terminal block type module	AJ65BTS-RPH	8-port star wiring hub module with repeater function, Spring clamp terminal block type	IP67 - IP2X
Repeater - module -	repeater hu Spring clamp repeater hub	b module terminal block type	AJ65BTS-RPH AJ65SBT-RPT	8-port star wiring hub module with repeater function, Spring clamp terminal block type T-branch module with repeater function	- IP2X
	repeater hu Spring clamp repeater hub Repeater m	b module terminal block type module	AJ65BTS-RPH AJ65SBT-RPT AJ65SBT-RPS	8-port star wiring hub module with repeater function, Spring clamp terminal block type T-branch module with repeater function For SI/QSI type fiber cable (Use 2 modules as a set)	- IP2X IP2X
	repeater hu Spring clamp repeater hub Repeater m Optical repe	b module terminal block type module odule (T-branch) eater module	AJ65BTS-RPH AJ65SBT-RPT AJ65SBT-RPS AJ65SBT-RPG	8-port star wiring hub module with repeater function, Spring clamp terminal block type T-branch module with repeater function	- IP2X IP2X IP2X
	repeater hu Spring clamp repeater hub Repeater m Optical repe Space optic	b module terminal block type module odule (T-branch) eater module	AJ65BTS-RPH AJ65SBT-RPT AJ65SBT-RPS AJ65SBT-RPG AJ65SBT-RPI-10A	8-port star wiring hub module with repeater function, Spring clamp terminal block type T-branch module with repeater function For SI/QSI type fiber cable (Use 2 modules as a set)	- IP2X IP2X IP2X IP2X
· /	repeater hu Spring clamp repeater hub Repeater m Optical repe	b module terminal block type module odule (T-branch) eater module	AJ65BTS-RPH AJ65SBT-RPT AJ65SBT-RPS AJ65SBT-RPG AJ65SBT-RPI-10A AJ65BT-RPI-10B	8-port star wiring hub module with repeater function, Spring clamp terminal block type T-branch module with repeater function For SJ/QSI type fiber cable (Use 2 modules as a set) For GI type fiber cable (Use 2 modules as a set) AJ65BT-RPI-10A and AJ65BT-RPI-10B used as a pair, 156k/625k/2.5Mbps supported	- IP2X IP2X IP2X IP2X IP2X IP2X
· /	repeater hu Spring clamp repeater hub Repeater m Optical repe Space optic	b module terminal block type module odule (T-branch) eater module	AJ65BTS-RPH AJ65SBT-RPT AJ65SBT-RPS AJ65SBT-RPG AJ65SBT-RPI-10A	8-port star wiring hub module with repeater function, Spring clamp terminal block type T-branch module with repeater function For SJ/QSI type fiber cable (Use 2 modules as a set) For GI type fiber cable (Use 2 modules as a set) AJ65BT-RPI-10A and AJ65BT-RPI-10B used as a pair, 156k/625k/2.5Mbps supported Input 16 points : 24VDC (positive common) Pin header type 44-pin (2 rows) Embedded type Response time 1.5ms	- IP2X IP2X IP2X IP2X
	repeater hu Spring clamp repeater hub Repeater m Optical repe Space optic	b module terminal block type module odule (T-branch) eater module	AJ65BTS-RPH AJ65SBT-RPT AJ65SBT-RPS AJ65SBT-RPG AJ65SBT-RPI-10A AJ65BT-RPI-10B	8-port star wiring hub module with repeater function, Spring clamp terminal block type T-branch module with repeater function For SI/QSI type fiber cable (Use 2 modules as a set) For GI type fiber cable (Use 2 modules as a set) AJ65BT-RPI-10A and AJ65BT-RPI-10B used as a pair, 156k/625k/2.5Mbps supported Input 16 points : 24VDC (positive common) Pin header type 44-pin (2 rows) Embedded type Response time 1.5ms Output 16 points : 12/24VDC (0.1A) Transistor output (sink type)	- IP2X IP2X IP2X IP2X IP2X IP2X
	repeater hu Spring clamp repeater hub Repeater m Optical repe Space optic	b module terminal block type module odule (T-branch) eater module	AJ65BTS-RPH AJ65SBT-RPT AJ65SBT-RPS AJ65SBT-RPG AJ65BT-RPI-10A AJ65BT-RPI-10B AJ65BTL1N-16D	8-port star wiring hub module with repeater function, Spring clamp terminal block type T-branch module with repeater function For SI/QSI type fiber cable (Use 2 modules as a set) For GI type fiber cable (Use 2 modules as a set) AJ65BT-RPI-10A and AJ65BT-RPI-10B used as a pair, 156k/625k/2.5Mbps supported Input 16 points : 24VDC (positive common) Pin header type 44-pin (2 rows) Embedded type Response time 1.5ms Output 16 points : 12/24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type	- IP2X IP2X IP2X IP2X IP2X IP2X
module	repeater hu Spring clamp repeater hub Repeater m Optical repe Space optic module	b module terminal block type module odule (T-branch) eater module al repeater	AJ65BTS-RPH AJ65SBT-RPT AJ65SBT-RPS AJ65SBT-RPG AJ65SBT-RPI-10A AJ65BT-RPI-10B AJ65MBTL1N-16D AJ65MBTL1N-16T	8-port star wiring hub module with repeater function, Spring clamp terminal block type T-branch module with repeater function For SI/QSI type fiber cable (Use 2 modules as a set) For GI type fiber cable (Use 2 modules as a set) AJ65BT-RPI-10A and AJ65BT-RPI-10B used as a pair, 156k/625k/2.5Mbps supported Input 16 points : 24VDC (positive common) Pin header type 44-pin (2 rows) Embedded type Response time 1.5ms Output 16 points : 12/24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type Input 8 points : 24VDC (positive common) Response time 1.5ms	- IP2X IP2X IP2X IP2X IP2X IP2X
module	repeater hu Spring clamp repeater hub Repeater m Optical repe Space optic	b module terminal block type module odule (T-branch) eater module al repeater	AJ65BTS-RPH AJ65SBT-RPT AJ65SBT-RPS AJ65SBT-RPG AJ65BT-RPI-10A AJ65BT-RPI-10B AJ65MBTL1N-16D AJ65MBTL1N-16DT	8-port star wiring hub module with repeater function, Spring clamp terminal block type T-branch module with repeater function For SI/QSI type fiber cable (Use 2 modules as a set) For GI type fiber cable (Use 2 modules as a set) AJ65BT-RPI-10A and AJ65BT-RPI-10B used as a pair, 156k/625k/2.5Mbps supported Input 16 points : 24VDC (positive common) Pin header type 44-pin (2 rows) Embedded type Response time 1.5ms Output 16 points : 24VDC (positive common) Response time 1.5ms Output 8 points : 24VDC (positive common) Response time 1.5ms Output 8 points : 24VDC (positive common) Response time 1.5ms	- IP2X IP2X IP2X IP2X IP2X IP2X
module	repeater hu Spring clamp repeater hub Repeater m Optical repe Space optic module	b module terminal block type module odule (T-branch) eater module al repeater	AJ65BTS-RPH AJ65SBT-RPT AJ65SBT-RPS AJ65SBT-RPG AJ65SBT-RPI-10A AJ65BT-RPI-10B AJ65MBTL1N-16D AJ65MBTL1N-16T	8-port star wiring hub module with repeater function, Spring clamp terminal block type T-branch module with repeater function For SI/QSI type fiber cable (Use 2 modules as a set) For GI type fiber cable (Use 2 modules as a set) AJ65BT-RPI-10A and AJ65BT-RPI-10B used as a pair, 156k/625k/2.5Mbps supported Input 16 points : 24VDC (positive common) Pin header type 44-pin (2 rows) Embedded type Response time 1.5ms Output 16 points : 12/24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type Input 8 points : 24VDC (positive common) Response time 1.5ms Output 8 points : 24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type Input 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms	- IP2X IP2X IP2X IP2X IP2X IP2X
module	repeater hu Spring clamp repeater hub Repeater m Optical repe Space optic module	b module terminal block type module odule (T-branch) eater module al repeater	AJ65BTS-RPH AJ65SBT-RPT AJ65SBT-RPS AJ65SBT-RPG AJ65BT-RPI-10A AJ65BT-RPI-10B AJ65BT-RPI-10B AJ65MBTL1N-16D AJ65MBTL1N-16DT AJ65MBTL1N-32D	8-port star wiring hub module with repeater function, Spring clamp terminal block type T-branch module with repeater function For SI/QSI type fiber cable (Use 2 modules as a set) For GI type fiber cable (Use 2 modules as a set) AJ65BT-RPI-10A and AJ65BT-RPI-10B used as a pair, 156k/625k/2.5Mbps supported Input 16 points : 24VDC (positive common) Pin header type 44-pin (2 rows) Embedded type Response time 1.5ms Output 16 points : 12/24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type Input 8 points : 24VDC (positive common) Response time 1.5ms Output 8 points : 24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type Input 3 2 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 12/24VDC (0.1A) Transistor output (sink type)	- IP2X IP2X IP2X IP2X IP2X - - -
Embedded	repeater hu Spring clamp repeater hub Repeater m Optical repe Space optic module	b module terminal block type module codule (T-branch) exter module al repeater	AJ65BTS-RPH AJ65SBT-RPT AJ65SBT-RPS AJ65SBT-RPG AJ65BT-RPI-10A AJ65BT-RPI-10B AJ65MBTL1N-16D AJ65MBTL1N-16DT AJ65MBTL1N-32D AJ65MBTL1N-32T	8-port star wiring hub module with repeater function, Spring clamp terminal block type T-branch module with repeater function For SI/QSI type fiber cable (Use 2 modules as a set) For GI type fiber cable (Use 2 modules as a set) AJ65BT-RPI-10A and AJ65BT-RPI-10B used as a pair, 156k/625k/2.5Mbps supported Input 16 points : 24VDC (positive common) Pin header type 44-pin (2 rows) Embedded type Response time 1.5ms Output 16 points : 24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type Input 8 points : 24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type Input 8 points : 24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type Input 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 12/24VDC (0.1A) Transistor output (sink type) Pin head type 62-pin (2 rows) Embedded type Pin head	- IP2X IP2X IP2X IP2X IP2X IP2X - - - -
Embedded	repeater hu Spring clamp repeater hub Repeater m Optical repe Space optic module	b module terminal block type module codule (T-branch) exter module al repeater	AJ65BTS-RPH AJ65SBT-RPT AJ65SBT-RPS AJ65SBT-RPG AJ65BT-RPI-10A AJ65BT-RPI-10B AJ65BT-RPI-10B AJ65MBTL1N-16D AJ65MBTL1N-16DT AJ65MBTL1N-32D	8-port star wiring hub module with repeater function, Spring clamp terminal block type T-branch module with repeater function For SI/QSI type fiber cable (Use 2 modules as a set) For GI type fiber cable (Use 2 modules as a set) AJ65BT-RPI-10A and AJ65BT-RPI-10B used as a pair, 156k/625k/2.5Mbps supported Input 16 points : 24VDC (positive common) Pin header type 44-pin (2 rows) Embedded type Response time 1.5ms Output 16 points : 12/24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type Input 8 points : 24VDC (positive common) Response time 1.5ms Output 8 points : 24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type Input 3 2 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 12/24VDC (0.1A) Transistor output (sink type)	- IP2X IP2X IP2X IP2X IP2X - - - -
Embedded	repeater hu Spring clamp repeater hub Repeater m Optical repe Space optic module	b module terminal block type module odule (T-branch) eater module al repeater dule	AJ65BTS-RPH AJ65SBT-RPT AJ65SBT-RPS AJ65SBT-RPG AJ65BT-RPI-10A AJ65BT-RPI-10B AJ65MBTL1N-16D AJ65MBTL1N-16DT AJ65MBTL1N-32D AJ65MBTL1N-32T	8-port star wiring hub module with repeater function, Spring clamp terminal block type T-branch module with repeater function For SI/QSI type fiber cable (Use 2 modules as a set) For GI type fiber cable (Use 2 modules as a set) AJ65BT-RPI-10A and AJ65BT-RPI-10B used as a pair, 156k/625k/2.5Mbps supported Input 16 points : 24VDC (positive common) Pin header type 44-pin (2 rows) Embedded type Response time 1.5ms Output 16 points : 24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type Input 8 points : 24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type Input 8 points : 24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type Input 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 12/24VDC (0.1A) Transistor output (sink type) Pin head type 62-pin (2 rows) Embedded type Pin head	- IP2X IP2X IP2X IP2X IP2X IP2X - - - -
Embedded	repeater hu Spring clamp repeater hub Repeater m Optical repe Space optic module type I/O mod	b module terminal block type module codule (T-branch) exter module al repeater	AJ65BTS-RPH AJ65SBT-RPT AJ65SBT-RPS AJ65SBT-RPG AJ65BT-RPI-10A AJ65BT-RPI-10B AJ65MBTL1N-16D AJ65MBTL1N-16D AJ65MBTL1N-16DT AJ65MBTL1N-32D AJ65MBTL1N-32T Q50BD-CCV2	8-port star wiring hub module with repeater function, Spring clamp terminal block type T-branch module with repeater function For SI/QSI type fiber cable (Use 2 modules as a set) For GI type fiber cable (Use 2 modules as a set) AJ65BT-RPI-10A and AJ65BT-RPI-10B used as a pair, 156k/625k/2.5Mbps supported Input 16 points : 24VDC (positive common) Pin header type 44-pin (2 rows) Embedded type Response time 1.5ms Output 16 points : 24VDC (positive common) Response time 1.5ms Output 8 points : 24VDC (positive common) Response time 1.5ms Output 8 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Input 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Input 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 12/24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type Input 32 points : 12/24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 12/24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 12/24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Pin head type 62-pin (2 rows) Embedded typ	- IP2X IP2X IP2X IP2X IP2X - - - - - - - - - - - - - -
Embedded	repeater hu Spring clamp repeater hub Repeater m Optical repe Space optic module type I/O mod type interface	b module terminal block type module odule (T-branch) eater module al repeater dule	AJ65BTS-RPH AJ65SBT-RPT AJ65SBT-RPS AJ65SBT-RPG AJ65BT-RPI-10A AJ65BT-RPI-10B AJ65MBTL1N-16D AJ65MBTL1N-16DT AJ65MBTL1N-32D AJ65MBTL1N-32T Q50BD-CCV2 A6GA-CCMFP1NN60F	8-port star wiring hub module with repeater function, Spring clamp terminal block type T-branch module with repeater function For SI/QSI type fiber cable (Use 2 modules as a set) For GI type fiber cable (Use 2 modules as a set) AJ65BT-RPI-10A and AJ65BT-RPI-10B used as a pair, 156k/625k/2.5Mbps supported Input 16 points : 24VDC (positive common) Pin header type 44-pin (2 rows) Embedded type Response time 1.5ms Output 16 points : 24VDC (positive common) Response time 1.5ms Output 16 points : 24VDC (positive common) Response time 1.5ms Output 8 points : 24VDC (positive common) Pin header type 44-pin (2 rows) Embedded type Input 8 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Input 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 24VDC (0.1A) Transistor output (sink type) Pin header type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 12/24VDC (0.1A) Transistor output (sink type) Pin header type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 21/24VDC (0.1A) Transistor output (sink type) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 12/24VDC (0.1A) Transistor output (sink type) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 12/24VDC (0.1A) Transistor output (sink type) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 12/24VDC (0.1A) Transistor output (sink type) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 12/24VDC (0.1A) Transistor output (sink type) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 12/24VDC (0.1A) Transistor output (sink type) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 12/24VDC (0.1A) Transistor output (sink type) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 12/24VDC (0.1A) Transistor output (sink type)	- IP2X IP2X IP2X IP2X IP2X - - - - - - - - - - - - - - - - - - -
Embedded	repeater hub Spring clamp repeater hub Repeater m Optical repe Space optic module type I/O mod type interface	b module terminal block type module codule (T-branch) eater module al repeater dule e board MFP1N Device kit	AJ65BTS-RPH AJ65SBT-RPT AJ65SBT-RPS AJ65SBT-RPG AJ65BT-RPI-10A AJ65BT-RPI-10B AJ65MBTL1N-16D AJ65MBTL1N-16DT AJ65MBTL1N-32D AJ65MBTL1N-32T Q50BD-CCV2 A6GA-CCMFP1NN60F A6GA-CCMFP1NN300F	8-port star wiring hub module with repeater function, Spring clamp terminal block type T-branch module with repeater function For SI/QSI type fiber cable (Use 2 modules as a set) For GI type fiber cable (Use 2 modules as a set) AJ65BT-RPI-10A and AJ65BT-RPI-10B used as a pair, 156k/625k/2.5Mbps supported Input 16 points : 24VDC (positive common) Pin header type 44-pin (2 rows) Embedded type Response time 1.5ms Output 16 points : 24VDC (positive common) Response time 1.5ms Output 8 points : 24VDC (positive common) Response time 1.5ms Output 8 points : 24VDC (positive common) Pin header type 44-pin (2 rows) Embedded type Input 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type North 32 points : 12/24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type Input 32 points : 12/24VDC (0.1A) Transistor output (sink type) Pin header type 62-pin (2 rows) Embedded type Contact 32 points : 12/24VDC (0.1A) Transistor output (sink type) Pin header type 62-pin (2 rows) Embedded type Input 32 points : 12/24VDC (0.1A) Transistor output (sink type) Pin header type 62-pin (2 rows) Embedded type Communication LSI for lead-free/RoHS compatible master/local/intelligent device station (300pcs)	- IP2X IP2X IP2X IP2X IP2X - - - - - - - - - - - - - - - - - - -
Embedded	repeater hub Spring clamp repeater hub Repeater m Optical repe Space optic module type I/O mod type interface	b module terminal block type module codule (T-branch) eater module al repeater dule	AJ65BTS-RPH AJ65SBT-RPT AJ65SBT-RPS AJ65SBT-RPG AJ65SBT-RPI-10A AJ65BT-RPI-10B AJ65MBTL1N-16D AJ65MBTL1N-16D AJ65MBTL1N-16DT AJ65MBTL1N-32D AJ65MBTL1N-32T Q50BD-CCV2 A6GA-CCMFP1NN300F Q6KT-NPC2OG51 A6GA-CCMFP2ANN 60F	8-port star wiring hub module with repeater function, Spring clamp terminal block type T-branch module with repeater function For SI/QSI type fiber cable (Use 2 modules as a set) For GI type fiber cable (Use 2 modules as a set) AJ65BT-RPI-10A and AJ65BT-RPI-10B used as a pair, 156k/625k/2.5Mbps supported Input 16 points : 24VDC (positive common) Pin header type 44-pin (2 rows) Embedded type Response time 1.5ms Output 16 points : 12/24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type Input 8 points : 24VDC (positive common) Response time 1.5ms Output 8 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Input 32 points : 12/24VDC (0.1A) Transistor output (sink type) Pin head type 62-pin (2 rows) Embedded type Master/local/intelligent device station CC-Link Ver.2 compatible Communication LSI for lead-free/RoHS compatible master/local/intelligent device station (60pcs) Communication LSI for lead-free/RoHS compatible mester/local/intelligent device station (300pcs) For network circuit (Flash ROM x 1pc, SPLD x 2pcs) Communication LSI for lead-free/RoHS compatible mester/local/intelligent (flash ROM x 1pc, SPLD x 2pcs)	- IP2X IP2X IP2X IP2X IP2X - - - - - - - - - - - - - - - - - - -
Embedded Embedded Object deve	repeater hub Spring clamp repeater hub Repeater m Optical repe Space optic module	b module terminal block type module odule (T-branch) sater module al repeater dule te board MFP1N Device kit MFP2AN	AJ65BTS-RPH AJ65SBT-RPT AJ65SBT-RPS AJ65SBT-RPG AJ65BT-RPI-10A AJ65BT-RPI-10B AJ65MBTL1N-16D AJ65MBTL1N-16D AJ65MBTL1N-16DT AJ65MBTL1N-32D AJ65MBTL1N-32T Q50BD-CCV2 A6GA-CCMFP1NN80F A6GA-CCMFP1NN80F A6GA-CCMFP2ANN 80F A6GA-CCMFP2ANN 80F	8-port star wiring hub module with repeater function, Spring clamp terminal block type T-branch module with repeater function For SI/QSI type fiber cable (Use 2 modules as a set) For GI type fiber cable (Use 2 modules as a set) AJ65BT-RPI-10A and AJ65BT-RPI-10B used as a pair, 156k/625k/2.5Mbps supported Input 16 points : 24VDC (positive common) Pin header type 44-pin (2 rows) Embedded type Response time 1.5ms Output 16 points : 24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type Input 8 points : 24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type Input 8 points : 24VDC (positive common) Response time 1.5ms Output 8 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Input 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Input 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Input 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Input 32 points : 12/24VDC (0.1A) Transistor output (sink type) Pin head type 62-pin (2 rows) Embedded type Master/local/intelligent device station CC-Link Ver.2 compatible Communication LSI for lead-free/RoHS compatible master/local/intelligent device station (300pcs) For network circuit (Flash ROM x 1pc, SPLD x 2pcs) Communication LSI for lead-free/RoHS compatible remote I/O station (16 points) (300pcs)	- IP2X IP2X IP2X IP2X IP2X IP2X - - - - - - - - - - - - - - - - - - -
Embedded Embedded Dbject deve	repeater hub Spring clamp repeater hub Repeater m Optical repe Space optic module type I/O mod	b module terminal block type module codule (T-branch) eater module al repeater dule e board MFP1N Device kit	AJ65BTS-RPH AJ65SBT-RPT AJ65SBT-RPS AJ65SBT-RPG AJ65BT-RPI-10A AJ65BT-RPI-10B AJ65MBTL1N-16D AJ65MBTL1N-16D AJ65MBTL1N-16DT AJ65MBTL1N-32D AJ65MBTL1N-32T Q50BD-CCV2 A6GA-CCMFP1NN800F A6GA-CCMFP2ANN 60F A6GA-CCMFP2NN 60F	8-port star wiring hub module with repeater function, Spring clamp terminal block type T-branch module with repeater function For SI/QSI type fiber cable (Use 2 modules as a set) For GI type fiber cable (Use 2 modules as a set) AJ65BT-RPI-10A and AJ65BT-RPI-10B used as a pair, 156k/625k/2.5Mbps supported Input 16 points : 24VDC (positive common) Pin header type 44-pin (2 rows) Embedded type Response time 1.5ms Output 16 points : 12/24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type Input 8 points : 24VDC (positive common) Pin header type 1.5ms Output 8 points : 24VDC (positive common) Pin header type 44-pin (2 rows) Embedded type Input 8 points : 24VDC (positive common) Pin header type (2 rows) Embedded type Input 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Input 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Input 32 points : 12/24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type Input 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Response time 1.5ms Output 32 points : 12/24VDC (0.1A) Transistor output (sink type) Pin head type 62-pin (2 rows) Embedded type Master/local/intelligent device station CC-Link Ver.2 compatible Communication LSI for lead-free/RoHS compatible master/local/intelligent device station (60pcs) Communication LSI for lead-free/RoHS compatible master/local/intelligent device station (300pcs) For network circuit (Flash ROM x 1pc, SPLD x 2pcs) Communication LSI for lead-free/RoHS compatible remote I/O station (16 points) (300pcs) Communication LSI for lead-free/RoHS compatible remote I/O station (16 points) (300pcs) Communication LSI for lead-free/RoHS compatible remote I/O station (32 points) (60pcs) Communication LSI for lead-free/RoHS compatible remote I/O station (32 points) (60pcs)	- IP2X IP2X IP2X IP2X IP2X - - - - - - - - - - - - - - - - - - -
Embedded Embedded Object deve	repeater hub Spring clamp repeater hub Repeater m Optical repe Space optic module	b module terminal block type module odule (T-branch) sater module al repeater dule te board MFP1N Device kit MFP2AN	AJ65BTS-RPH AJ65SBT-RPT AJ65SBT-RPS AJ65SBT-RPG AJ65BT-RPI-10A AJ65BT-RPI-10B AJ65MBTL1N-16D AJ65MBTL1N-16D AJ65MBTL1N-16DT AJ65MBTL1N-32D AJ65MBTL1N-32T Q50BD-CCV2 A6GA-CCMFP1NN80F A6GA-CCMFP1NN80F A6GA-CCMFP2ANN 80F A6GA-CCMFP2ANN 80F	8-port star wiring hub module with repeater function, Spring clamp terminal block type T-branch module with repeater function For SI/QSI type fiber cable (Use 2 modules as a set) For GI type fiber cable (Use 2 modules as a set) AJ65BT-RPI-10A and AJ65BT-RPI-10B used as a pair, 156k/625k/2.5Mbps supported Input 16 points : 24VDC (positive common) Pin header type 44-pin (2 rows) Embedded type Response time 1.5ms Output 16 points : 24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type Input 8 points : 24VDC (0.1A) Transistor output (sink type) Pin header type 44-pin (2 rows) Embedded type Input 8 points : 24VDC (positive common) Response time 1.5ms Output 8 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Input 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Input 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Input 32 points : 24VDC (positive common) Pin head type 62-pin (2 rows) Embedded type Input 32 points : 12/24VDC (0.1A) Transistor output (sink type) Pin head type 62-pin (2 rows) Embedded type Master/local/intelligent device station CC-Link Ver.2 compatible Communication LSI for lead-free/RoHS compatible master/local/intelligent device station (300pcs) For network circuit (Flash ROM x 1pc, SPLD x 2pcs) Communication LSI for lead-free/RoHS compatible remote I/O station (16 points) (300pcs)	- IP2X IP2X IP2X IP2X IP2X - - - - - - - - - - - - - - - - - - -

 * Positive common: sink type, negative common: source type

Mitsubishi Electric Engineering Corporation

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

Optional parts for I/O modules

One-touch connector plugs

Product name	Model name	Specifications				
Floduct hame		Plug color	Applicable cable core (mm)	Applicable cable outside diameter (mm)		
	A6CON-P214	Transparent	0.14 to 0.2	1.0 to 1.4 dia.		
One-touch connector plug	A6CON-P220	Yellow	(AWG #26 to 24)	1.4 to 2.0 dia.		
(20pcs)	A6CON-P514	Red	0.3 to 0.5	1.0 to 1.4 dia.		
	A6CON-P520	Blue	(AWG #22 to 20)	1.4 to 2.0 dia.		
One-touch connector plug	One-touch connector plug		One-touch connector plug for communication 5-pin [transmission circuit terminal (IDC type)]			
for communication (10pcs)	A6CON-L5P	Applicable cable: FA	ANC-110SBH (made by Kuramo Denko Co., Ltd.)	CS10 (made by Daiden Co., Ltd.)		
	A6CON-PW5P	One-touch connector plug for power supply and FG 5-pin [module power supply terminal, I/O power supply terminal, FG terminal (IDC type)]				
One-touch connector plug	ACCON-PWSP	Applicable wire size: 0.66 to 0.98mm ² (AWG#18) [2.2 to 3.0mm dia.] Strand diameter 0.16mm or more				
for power supply and FG (10pcs)		One-touch connector plug for power supply and FG 5-pin [module power supply terminal, I/O power supply terminal, FG terminal (IDC type)]				
	A6CON-PW5P-SOD	Applicable wire size: 0.66 to 0.98mm ² (AWG#18) [2.0 to 2.3mm dia.] Strand diameter 0.16mm or more				
One-touch connector plug		One-touch connecto	or plug for communication with terminating resisto	r (110Ω)		
with terminating resistor (1pc)	A6CON-TR11	When the connector	r type remote I/O is used for the end station, be si	ure to use this.		

Online connector

Product name	Model name	Specifications
Online connector for communication (5pcs)	A6CON-LJ5P	Online connector for communication 5-pole (10-pin)
Online connector for power supply and FG (5pcs)	A6CON-PWJ5P	Online connector for power supply and FG 5-pole (10-pin)

Protective cover for remote I/O module

Product name	Model name	Applicable module		
Protective cover	A6CVR-8	AJ65SBTB1-8D, AJ65SBTB1-8T, AJ65SBTB1-8TE, AJ65SBT-RPT, AJ65SBTB1-8T1		
for 8-point module (10pcs)	A6CVR-VCE8	AJ65VBTCE3-8D, AJ65VBTCE2-8T		
Protective cover for 16-point module (10pcs)		AJ65SBTB1-16D, AJ65SBTB1-16D1, AJ65SBTC1-32D, AJ65SBTC1-32D1, AJ65SBTB3-8D, AJ65SBTB2-8A, AJ65SBTB2N-8A, AJ65SBTB1-16T, AJ65SBTB1-16T1, AJ65SBTC1-32T, AJ65SBTB2-8T, AJ65SBTB1-16TE, AJ65SBTB2-8R, AJ65SBTB2N-8R, AJ65SBTB2-8S, AJ65SBTB2N-8S, AJ65SBTC1-32DT, AJ65SBTC1-32DT1, AJ65SBTC4-16DT, AJ65SBTC4-16DT, AJ65SBTB1-16DT, AJ65SBTB1-16DT1, AJ65SBTC3-8DT, AJ65SBTC1-32DT2, AJ65SBTC4-16DN, AJ65SBTC4-16DE, AJ65SBTB1-16DT1, AJ65SBTB1-16DT2, AJ65SBTC1-32DT2, AJ65SBTC4-16DN, AJ65SBTC4-16DE, AJ65SBTB2-8T1, AJ65SBTB1-16DT2, AJ65SBTC1-32DT2, AJ65SBTC1-32DT3, AJ65SBTC4-16DT2, AJ65SBTB1-16DT3, AJ65SBTB2-8DT2		
	A6CVR-VCE16	AJ65VBTCE3-16D, AJ65VBTCE2-16T, AJ65VBTCE32-16DT, AJ65VBTCE3-16DE, AJ65VBTCE3-16TE, AJ65VBTCE3-16DTE		
Protective cover for 32-point module (10pcs)	A6CVR-32	AJ65SBTB1-32D, AJ65SBTB1-32D1, AJ65SBTB3-16D, AJ65SBTB2-16A, AJ65SBTB2N-16A, AJ65SBTB1-32T, AJ65SBTB1-32T1, AJ65SBTB2-16T, AJ65SBTB2-16T, AJ65SBTB2-16T, AJ65SBTB2-16T, AJ65SBTB2-16T, AJ65SBTB2-16T1, AJ65SBTB1-32DT3, AJ65SBTB2-16DT2, AJ65SBTB1-32DT2		

Protective cap for unused connector

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

■ 40-pin connector (FCN connector)

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



### **CC-Link Safety Related Product Model Names**

#### Mitsubishi Electric Corporation

Module type		Model name	Specifications	Protection
			Specifications	
Master module		QS0J61BT12	Maximum number of stations: 64 stations (maximum of 42 safety stations) Safety station information management	IP2X
	Screw/2-piece	QS0J65BTB2-12DT	Safety input: 8 points (dual input), 16 points (single input)	IP2X
Remote I/O	Remote I/O terminal block type	Q50J05B1B2-12D1	Safety output: 4 points (source + sink type), 2 points (source + source type)	IP2X
module	Spring clamp terminal	QS0J65BTS2-8D	Safety input: 8 points (dual input), 16 points (single input)	IP2X
	block type	QS0J65BTS2-4T	Safety output: 4 points (source + sink type), 2 points (source + source type)	IP2X

### CC-Link/LT Related Product Model Names

### Mitsubishi Electric Corporation

Module type		Model name	Specifications	Protection level	
		QJ61CL12	CC-Link/LT master module for Q Series	-	
		LJ61CL12	CC-Link/LT master module for L Series	-	
Master module			FX2N-64CL-M	CC-Link/LT master module for FX1N, FX2N, FX3N, FX1NC, FX2NC, and FX3NUC	-
			FX3UC-32MT-LT (-2)*1	FX3UC series CC-Link/LT programmable controller (built-in master function)	-
Bridge module			AJ65SBT-CLB	CC-Link - CC-Link/LT bridge module	IP2X
			CL1X4-D1B2	Input 4 points: 24VDC (positive/negative common shared)	IP2X
			CL2X8-D1B2	Input 8 points: 24VDC (positive/negative common shared)	IP2X
			CL1Y4-T1B2	Output 4 points: 12/24VDC (sink type) 0.1A Transistor output	IP2X
			CL2Y8-TP1B2	Output 8 points: 12/24VDC (sink type) 0.1A Transistor module (with output protection function)	IP2X
			CL1Y4-R1B2	Output 4 points: 30VDC , 250VAC or less 2A Relay output	IP1X
			CL1Y4-R1B1	Output 4 points: 30VDC , 250VAC or less 2A Relay output 1 point 1 common (independent)	IP1X
				Input 2 points: 24VDC (positive/negative common shared)	
	Screw termi	nal block type	CL1XY4-DT1B2	Output 2 points: 12/24VDC (sink type) 0.1A Transistor output	IP2X
				Input 4 points: 24VDC (positive/negative common shared)	
			CL1XY8-DT1B2	Output 4 points: 12/24VDC (sink type) 0.1A Transistor output	IP2X
				Input 2 points: 24VDC (positive/negative common shared)	
			CL1XY4-DR1B2	Output 2 points: 224/DO (positive/regative common shared)	IP1X
				Input 4 points: 24VDC (positive/negative common shared)	
			CL1XY8-DR1B2	Output 4 points: 24 VDC (positive/regaine contribution shared)	IP1X
			CL1X4-D1S2	Input 4 points: 30VDC , 250VAC of less 2A Relay output 4 points: 24VDC (positive/negative common shared)	IP2X
			CL2X8-D1S2	Input 8 points: 24VDC (positive/negative common shared)	IP2X
	Spring clam	o terminal			IP2X
	block type		CL1Y4-T1S2 CL2Y8-TP1S2	Output 4 points: 12/24VDC (sink type) 0.1A Transistor output	IP2X
				Output 8 points: 12/24VDC (sink type) 0.1A Transistor output (output protection function)	-
Remote I/O			CL2Y8-TPE1S2 CL1X4-D1C3	Output 8 points: 12/24VDC (source type) 0.1A Transistor output (output protection function)	IP2X IP2X
module				Input 4 points: 24VDC (positive common)	
module			CL2X8-D1C3V	Input 8 points: 24VDC (positive common)	IP2X
			CL2X16-D1C3V	Input 16 points: 24VDC (positive common)	IP2X
	Sensor connector type		CL1Y4-T1C2	Output 4 points: 24VDC (sink type) 0.1A Transistor output	IP2X
	(e-CON)		CL2Y8-TP1C2V	Output 8 points: 24VDC (sink type) 0.1A Transistor module (output protection function)	IP2X
			CL2Y16-TP1C2V	Output 16 points: 24VDC (sink type) 0.1A Transistor module (output protection function)	IP2X
			CL2XY16-DTP1C5V	Input 8 points: 24VDC (positive common)	IP2X
				Output 8 points: 24VDC (sink type) 0.1A Transistor module (output protection function)	
			CL2X16-D1M1V	Input 16 points: 24VDC (positive common)	IP2X
			CL2X16-D1MJ1V	Input 16 points: 24VDC (positive common)	IP2X
				Shared power supply for module and I/O parts	
	MIL connector type		CL2Y16-TP1M1V	Output 16 points: 12/24VDC (sink type) 0.1A Transistor module (output protection function)	IP2X
			CL2Y16-TP1MJ1V	Output 16 points: 24VDC (sink type) 0.1A Transistor module (output protection function)	IP2X
				Shared power supply for module and I/O parts	
			CL2Y16-TPE1M1V	Output 16 points: 12/24VDC (source type) 0.1A Transistor module (output protection function)	IP2X
	Cable type		CL1X2-D1D3S	Input 2 points: 24VDC (positive common)	IP2X
			CL1Y2-T1D2S	Output 2 points: 24VDC (sink type) 0.1A Transistor output	IP2X
			CL1XY2-DT1D5S	Input 1 points: 24VDC (positive common)	IP2X
				Output 1 points: 24VDC (sink type) 0.1A Transistor output	
Analog module	Screw terminal	Voltage/current input	CL2AD4-B	4-channel voltage/current input A/D conversion module (analog input module)	IP2X
Analog module	block type	Voltage/current output	CL2DA2-B	2-channel voltage/current output D/A conversion module (analog output module)	IP2X
Dedicated power supply		CL1PSU-2A	CC-Link/LT dedicated power supply (2A)	IP1X	
Power supply ada	ion LSI cLC13 clos LSI o station LSI cLC21 cLC21 cLC21		CL1PAD1	Power supply adapter (5A) for CL1PAD1 CC-Link/LT	-
Communication LSI			01000410.00	Communication I CI for load free (Pal IC competible meeter station (COppe)	_
for master station			CL2GA13-60	Communication LSI for lead-free/RoHS compatible master station (60pcs)	-
Communication LSI			CL2GA21-60	Communication LSI for lead-free/RoHS compatible remote I/O station (60pcs)	-
for remote I/O station			CL2GA21-300	Communication LSI for lead-free/RoHS compatible remote I/O station (300pcs)	-
Communication LSI					1
	CLC31		CL2GA31-60	Communication LSI for remote device station (60pcs)	-
for remote device station					1
for remote device station			CL2TE-5	Common terminal block for screw terminal block type modules (applicable model; CL2X8-D1B2, CL2Y8-TP1B2, CL2AD4-B)	-
Accessories	Common ter	minal block	CL2TE-5 CL2TE-10S	Common terminal block for screw terminal block type modules (applicable model: CL2X8-D1B2, CL2Y8-TP1B2, CL2AD4-B) Common terminal block for spring clamp terminal block type modules (applicable model : CL2X8-D1S2)	-

*1 CC-Link/LT parameters for FX3uc-32MT-LT-2 can be configured with GX Works2, GX Developer or display modules.

#### Mitsubishi Electric System & Service Co.,Ltd.

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



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