

MELSEG-AnS/QnAS series



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















The Answer to Optimum Control -







Choose a PLC. Choose quality. Choose the MELSEC-AnS/QnAS Series!

Need reliability? Choose the MELSEC-AnS/QnAS Series!

Need Mitsubishi's collective strength? Choose the MELSEC-AnS/QnAS Series!

Need global support? Choose the MELSEC-AnS/QnAS Series!

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Anytime, Anywhere!

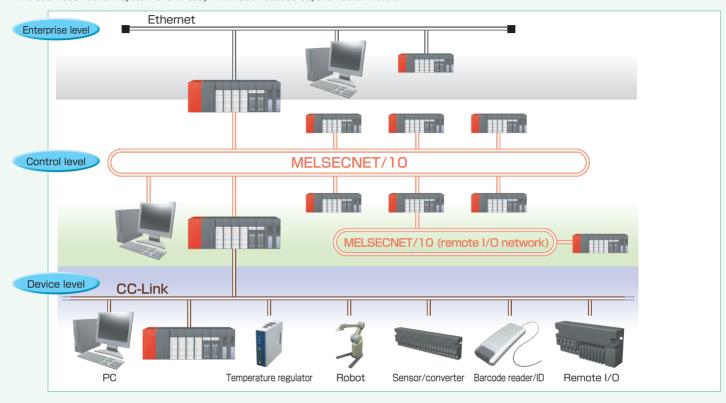




From Large-scale Systems to Open Networks -

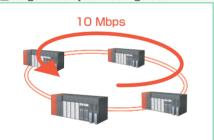
• Mitsubishi FA Network System

The Mitsubishi FA Network System provides optimum network products to meet specific application requirements. The network system includes an enterprise level network (Ethernet) used to gather information on production/quality control and the equipment operating status, a control level network (MELSECNET/10) used to link controllers, and a device level network (CC-Link) used to link a controller and other devices including sensors. This seamless network system allows easy information access beyond network levels.



OMELSECNET/10

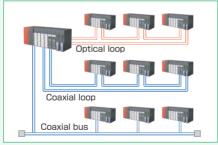
■ Large-scale system configuration



- (1) High-speed communication
 High-speed communication of 10 Mbps is
 possible using a dedicated data-link processor
 (MDP)
- (2) No. of connectable stations A maximum of 64 stations (optical/coaxial loop system)/32 stations (coaxial bus system) can be connected. The entire system can be expanded up to 255 networks (239 for QnAS)
- Series).
 (3) Large capacity

The maximum number of link points per network for link relay B, link register W, and link I/O is 8192, respectively. Hence, the network can support even large-scale systems with many I/O devices.

■ Diverse transmission configuration



To support a variety of systems flexibly, three transmission configurations are offered: an optical loop system which provides long distance between stations, long overall distance, and high noise immunity; a coaxial bus system which realizes low cost and easy cable assembly; and a coaxial loop system.

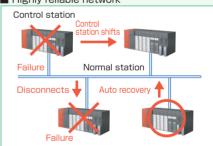
■ N:N communication

Access, such as remote monitoring and uploading/downloading programs from peripheral devices, PCs, etc., is capable in N:N communication. Furthermore, N:N communication can be performed by transmission/reception commands (ZNRD, ZNWR) from the PLC program, In addition to this feature, the QnACPU can execute SEND, RECV, READ, WRITE, and REQ message transmission/reception commands.

■ Gateway function

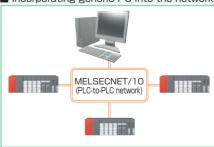
The gateway function to multiple networks via the QnACPU and AnUCPU enables interlink data transfer of link devices and a routing function that performs N:N communication with other networks.

■ Highly reliable network



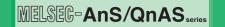
Even if the control station fails, the normal station acts as a sub-control station to prevent interruptions in network communication.

■ Incorporating generic PC into the network



By installing MELSECNET/10 boards in generic PCs, the PCs can be connected to the MELSECNET/10 network system. This allows you to check data-link related testing and monitoring information on the PC screen and to access PLC data using user-programmed functions with the software

The MELSEC-AnS/QnAS Network System



●MELSECNET/10 Specifications Ans For QNASCPU

Туре	Control/ normal station	A1SJ71QLP21 MAS A1SJ71LP21 MAS	A1SJ71QLR21 MS A1SJ71LR21 MS	A1SJ71QBR11 <mark>048</mark> A1SJ71BR11 <mark>418</mark>	
Item	Remote I/O station	A1SJ72QLP25	A1SJ72QLR25	A1SJ72QBR15	
Transmis	sion path	Optical loop (SI/QSI cable)	Coaxial loop	Coaxial bus	
Communi	cation speed	10 Mbps/20 Mbps (multiplex transmission)			
Overall di	stance	30 km	19.2 km/30 km * 1	300 m/500 m * 1	
Max. dista	ance between stations	500 m/1 km*1	300 m/500 m*1		
Max. link points per network		X/Y: 8192 points, B: 8192 points, W: 8192 points		2 points	
No. of connectable stations per network		64 (PLC to PLC notwork)/65 (romoto I/O notwork)		32 (PLC-to-PLC network)/ 33 (remote I/O network)	

^{*1:} Varies depending on the type of cable used.

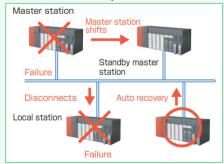
OCC-Link

■ Minimum wiring, low cost

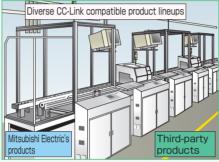


A bus type connection using dedicated CC-Link cables enables to connect multiple intelligent devices spread throughout the production line and to modify wiring easily. Hence, wiring and system maintenance costs are reduced.

■ Reliable and safe system



■ A wide selection of products

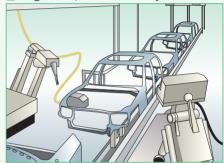


Optimal products can be selected from a wide variety of Mitsubishi Electric's products and third-party products for the CC-Link system.

Mitsubishi Electric performs compatibility tests to ensure that the third-party products can be connected without any problems.

Communication are continued between the master station and other local stations even if the local or remote station fails. In addition, repair and replacement can be done without stopping the system (when a 2-piece terminal block is used).

■ Large-scale, multi-function system



- High-speed communication
 Communication with a transmission speed of 10 Mbps is possible.
- (2) Long-distance communication Maximum 1.2 km long-distance communication is supported. Furthermore, the distance can be extended up to 7.8 km using an optical repeater module.
- (3) Large capacity
- Communication of I/O data (2048 points) and numerical data (512 points) is capable. Hence, large-scale systems with many I/O devices can be supported.

OCC-Link Specifications For QnASCP

Item		A1SJ61QBT11	A1SJ61BT11AnS
Transmissi	on speed	Can select from 156 kbps, 625 kbps,	2.5 Mbps, 5 Mbps, and 10 Mbps
Max. no. of conn	ectable modules (master station)	64 (for remote I/O station wit	th 1 occupied station)
No. of occupi	ed stations (local station)	1 to 4	1
Per system		Remote I/O: 2048 points Remote register: 256 points (master station to remote 256 points (remote/local station to n	**
Per remote/ local station		Remote I/O: 32 points (local station: 30 points) Remote register: 4 points (master station to remote/lo 4 points (remote/local station to mas	**
Transmission path		Bus (RS-4	<i>,</i>

* The maximum overall cable length will differ depending on the transmission speed and connection cable. When a Ver.1.10 compatible cable is used, the relationship between transmission speed and the maximum overall cable length is shown in the table on the right.

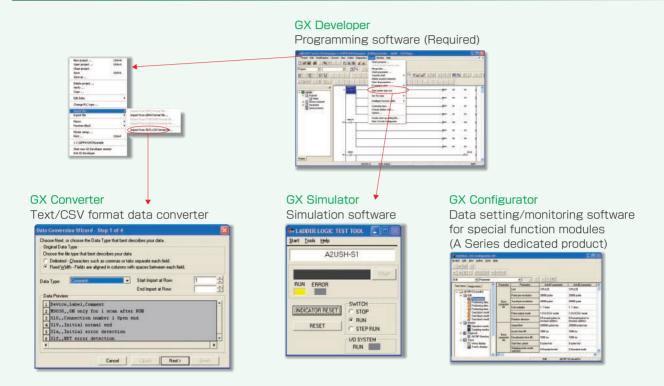
,	Transmission speed	Station-to-station cable length	Maximum overall cable length
)	156 kbps		1200 m
1	625 kbps		900 m
5	2.5 Mbps	20 cm or longer	400 m
	5 Mbps		160 m
	10 Mbps		100 m

From Program Development to Debugging, Monitoring and Diagnostics,

•Integrated FA Development and Debugging with MELSOFT

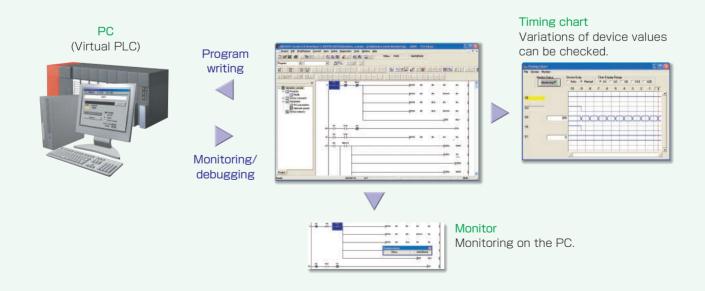
MELSOFT, Mitsubishi Electric's integrated FA software, dramatically improves operating efficiency for program development, debugging, and maintenance by taking advantage of Windows operability. More convenient and easy-to-use engineering environment is provided by the software such as GX Simulator that enables offline debugging without needing actual hardware and GX Configurator that allows initialization on the screen (without a program), monitoring, testing, etc.

• Improving Development Efficiency with GX Series



Offline Debugging

GX Simulator runs a virtual PLC on the PC. Program debugging can be performed on the PC without needing actual hardware. By duplicating the operation of the actual PLC, debugging can be carried out upon completion of designing without having to wire I/O modules.

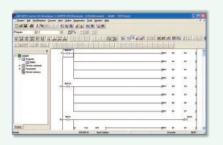


Fully Supported by MELSEC-AnS/QnAS Program Development Tools



Support Creation of System Documents

GX Converter converts other format data (text format data, CSV format data) to GX Developer format data (instruction list, device comment). Data conversion is simple using the data conversion wizard. This is a convenient tool for creation of system documents.







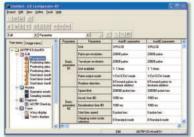
Easy Parameter Settings

GX Configurator initializes parameters for special function modules simply by following the screen without sequence programs. Furthermore, monitoring and testing can be performed on the screen without having to consider the buffer memory. This is an effective tool for system adjustments and troubleshooting.

<GX Configurator-AP: Positioning module setting/monitoring tool>

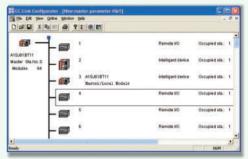


Image menu screen



Tree menu screen

<GX Configurator-CC: CC-Link module setting/monitoring tool>



Master parameter setting screen



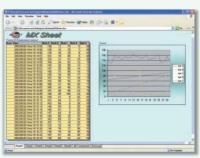
Remote parameter setting screen

MX Series Designed to Link Office to Shop Floor

MX Component of the MX Series supports a variety of communication methods from PCs to PLCs. Its ActiveX[®] based library achieves communication with only a simple process without having to consider protocol communication issues. MX Components is suitable for the sites where a diverse application requirements needs to be met and speed is required in system configuration and modifications. MX Component drastically reduces communication program development time and improves efficiency. Additionally, MX Components supports a variety of development languages, such as Visual Basic[®], Visual C++[®], Excel/Access VBA, and VBScript, enabling a broad range of application developments.



MX Component



MX Sheet

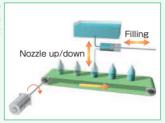
MELSEC-AnS/QnAS Special Function Modules Designed to Meet Diverse Application Needs

●Positioning Module Mas For QnASCPU

Positioning modules are connected to servo amplifiers and servo motors, and controls (calculates and instructs) positioning of a target object at a preset position or speed. Using with GX Configurator-AP (positioning module setting/monitoring tool for A1SD75P), setting the positioning parameters and data and monitoring are easier.

Application example: Filling device line Move bottles to the filling nozzle position and control the nozzle position and filling speed to prevent from forming bubbles.

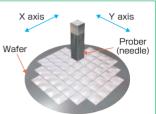
Bottle movement: Fixed-feed rate Nozzle up/down: Position control Fluid filling: Speed control



Application example: Semiconductor related equipment

Control accurate positioning (X/Y axes) to inspect a wafer prober and tester for each chip on the wafer.

Prober movement: 2-axis (X/Y) linear interpolation control



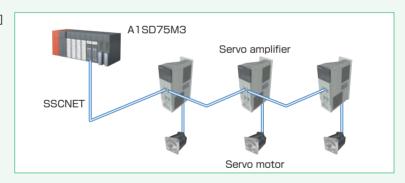
SSCNET Connection Type

- · Connectable to Mitsubishi SSCNET servo amplifiers up to 30 m with minimum wiring.
- · An absolute position system that does not require original point recovery of machine can be constructed easily.
- · Equipped with a variety of control methods, such as PTP (Point to Point) control, fixed-feed rate control, and 2-axis linear/circular interpolation control.
- · Transmitting parameters to the servo amplifiers and monitoring are capable from the positioning modules.

Item	A1SD75M1 GAS ANS	A1SD75M2 GAS ANS	A1SD75M3 CAS ANS
No. of control axes	1 axis	2 axes	3 axes
Control unit	mm, inch, degree, pulse		
Positioning range *1	-2147483648 to 2147483647 pulse (Can be set in mm, inches, or degrees.)		
Speed command	1 to 1000000 pulse/s (Can be set in mm/min, inch/min, or degree/min.)		
Control method	PTP control, path control (linear and circular), speed control, speed/position changeover control		
Max. output command speed	1 Mpps		
Interpolation function	_	2-axis linear interpolation,	2-axis circular interpolation

^{*1:} The positioning range is applicable when an absolute position system is not used.

[SSCNET connection example]

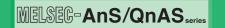


Open Collector/Differential Driver Output Type

- \cdot Open collector/differential driver output type for standard servo amplifiers.
- $\cdot \ \, \text{Being compatible with stepping motors, systems can be constructed depending on application requirements}.$
- · Equipped with a variety of control methods, such as PTP (Point to Point) control, fixed-feed rate control, and 2-axis linear/circular interpolation control.

Item	A1SD75P1-S3 Ans	A1SD75P2-S3 MAS ANS	A1SD75P3-S3 MAS ANS
No. of control axes	1 axis	2 axes	3 axes
Control unit	mm, inch, degree, pulse		
Positioning range*1	-2147483648 to 2147483647 pulse (Can be set in mm, inches, or degrees.)		
Speed command	1 to 1000000 pulse/s (Can be set in mm/min, inch/min, or degree/min.)		
Control method	PTP control, path control (linear and circular), speed control, speed/position changeover control		
Max. output pulse	Differential driver: 400 kpps, open collector: 200 kpps		
Interpolation function	_	2-axis linear interpolation,	2-axis circular interpolation

^{*1:} The positioning range is applicable in the standard mode.



The analog input modules convert input analog values (voltage or current) to digital values.

· The most suitable type can be selected based on the number of channels, analog input characteristics, resolution, etc.

Item A1S64AD ^{⊶s} Ans		A1S64AD Ans	A1S68AD Ans
Analog	Voltage	-10 to 10 V DC	
input range	Current	-20 to 20 mA DC	O to 20 mA DC
Danaludian	Voltage	2.5/1.25/0.83 mV	5/2.5/1.25/1 mV
Resolution	Current	10/5/3.33 μA	5/4 μΑ
No. of cha	annels	4	8
Conversion speed		20 ms/channel	0.5 ms/channel

●Analog Output Module MFor QnASCPU Anscru

The analog output modules convert the set digital values to analog values (voltage or current) and then output them externally.

· The most suitable type can be selected based on the number of channels, analog output characteristics, resolution, etc.

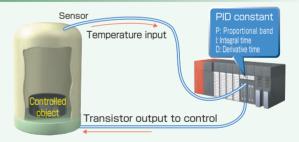
lte	em	A1S62DA A1S68DAV		A1S68DAI Gras <mark>Ans</mark>
Analog	Voltage	-10 to 10 V DC		_
output range	Current	0 to 20 mA DC	_	4 to 20 mA DC
Decelution	Voltage	2.5/1.25/0.83 mV	5 mV	_
Resolution	Current	5/2.5/1.7 μA	_	4 μΑ
No. of channels 2		2	8	
Conversion	nversion speed 25 ms/2 channels 4 ms/8 channels		channels	

Temperature Control Module

Ans For Anscell

The temperature control modules input temperature data of a controlled object from a temperature sensor and maintain temperature at the set value.

- · By connecting a thermocouple or platinum RTD directly, an optimum temperature control (PID control) is available.
- · Can control heating-cooling up to two loops.
- · Can control temperature up to four loops.
- \cdot A1S64TCTTBW can detect heater disconnection.



Item	A1S64TCTRT AS ANS	A1S64TCTRTBW Ans	
Control output	Standard control (heating or cooling	ng control), heating-cooling control	
No. of temperature input points	Standard control: 4 channels/module he	Standard control : 4 channels/module heating-cooling control : 2 channels/module	
Supported sensors	Thermocouple (R, K, J, T, S, B, E, N, U, L, PLII, W5Re/W26Re), Platinum RTD (Pt100, JPt100)		
Sampling cycle	Standard control: 0.5 s/4 channels hea	Standard control: 0.5 s/4 channels heating-cooling control: 0.5 s/ 2 channels	
Disconnection detection	No	Yes	

The temperature input modules input temperature data from a temperature sensor and convert the value into the digital value.

· The most suitable type can be selected based on the measurement temperature, number of channels, resolution, etc.

Item	A 1 S68TD ONS ANS	A1S62RD3N ones Ans	A1S62RD4N Ans
Supported sensors	Thermocouple (R, K, J, T, S, B, E)	Pt100, JPt100 (3-wire type)	Pt100, JPt100 (4-wire type)
No. of channels	8	2	
Temperature input range	0 to 1700℃	−180 to 600°C	
Resolution	B, R, S : 0.3℃ K, E, J, T : 0.1℃	0.025℃	
Conversion speed	400 ms/8 channels	40 ms/channel	

MELSEC-AnS/QnAS Special Function Modules Designed to Meet Diverse Application Needs

●Ethernet Interface Module Module For QnASC

- · Communication between the PC and PLC or between PLCs can be performed via Ethernet.
- The communication program for the PC can be simplified using MELSEC communication support tools (MX Component etc.). The module can be selected based on the interface (10BASE5, 10BASE-T, or 10BASE2).



Item	A1SJ71QE71N-B5	A1SJ71QE71N3-T	A1SJ71QE71N-B2
Interface	10BASE5	10BASE-T	10BASE2
Data transmission speed	10 Mbps		
Max. distance between nodes	2500 m	-	925 m
Max. segment length	500 m	100 m (between hub and node)	185 m
Max. no. of nodes/connection	100 units/segment	Max. 4 stages cascade connection	30 units/segment
No. of simultaneously open connections allowed	8		

OSerial Communication Module M For QNASCPU

An RS-232 or RS-422/RS-485 interface is used to perform data exchange between external devices (PCs, printers, display devices, sensors, measurement devices, etc.) and the PLC CPU. The communication program for the PC can be simplified using MELSEC communication support tools (MX Component etc.).



- \cdot Have two channels of RS-232 or one RS-232 and one RS-422/485, allowing to set each channel differently.
- · Registration of the communication frame and ASCII/BIN code conversion are available based on the external device.
- · Compatible with computer link modules and can be incorporated into a multidrop link.

Item	A1SJ71QC24N1	A1SJ71QC24N1-R2 🛰		
Interface	RS-232×1 channel, RS-422/485×1 channel	RS-232×2 channels		
Transmission speed	300 to 1	300 to 115200 bps		
Synchronization method	Asynchron	Asynchronous method		
Protocol	Dedicated, nonprod	Dedicated, nonprocedural, bidirectional		
Compatibility	Compatible with A1SJ71UC24-R2/PRF/R4 communication protocols			
Modem support function	Yes			

Computer Link Module For Anscru

An RS-232 or RS-422/RS-485 interface is used to perform data exchange between external devices (PCs, printers, etc.) and the PLC CPU. The communication program for the PC can be simplified using MELSEC communication support tools (MX Component etc.).

(Support dedicated, nonprocedural, and bidirectional protocols. Communication based on the application or external device is capable.)

 \cdot Monitoring the status of PLC CPU and uploading/downloading device data and programs are possible.

Item	A1SJ71UC24-R4 Ans	A1SJ71UC24-R2 AnS	A1SJ71UC24-PRF Ans		
Interface	RS422/485×1 channel RS-232×1 channel				
Transmission speed	300 to 19200 bps				
Synchronization method	Asynchronous method				
Protocol	Dedicated, nonprocedural, bidirectional				
Multidrop link function	Yes No				



OInterrupt Module For QnASCPU

When an interrupt input occurs, the interrupt module makes PLC CPU execute the specified interrupt programs.

Item		A1SI61 ovs Ans
No. of interrupt input points		16 points
B	Voltage	12/24 V DC
Rated input	Current	4 mA(12 V DC)/8 mA(24 V DC)
Response time		0.2 ms

OHigh Speed Counter Module Ans For Anscru

This module counts externally input pulse signals, compares the value with the preset value, and outputs a signal.

- · Support low speed input pulses by counting speed switching pin. (A1SD61, A1SD62, A1SD62E, A1SD62D, A1SD62D-S1)
- · External output by the comparison results (<, =, >) is available. (A1SD61)

Item	A1SD61 QnAS AnS	A1SD62	A1SD62E	A1SD62D anas Ans	A1SD62D-S1
No. of channels	1		2	2	
Input method	Photocoupler (5/12/24 V DC: 2 to 5 mA)			Differential	line receiver
Input format	1-phase, 2-phase				
Max. counting speed	50 kpps	100	kpps	200	kpps
No. of external output points	8 (comparison output)	2/channel (coincidence outpu		ut)	1/channel (coincidence output)
External output method (transistor output 12/24 V DC)	Open collector	Sink type Source type Sink type		type	

● Position Detection Module And For QnASCPU

The position of the target object is detected with a signal input from the absolute encoder.

Item	A1S62LS ONS ANS
Position detection method	Absolute position detection by absolute encoder
Resolution	4096 divisions × 32 rotations to 409.6 divisions × 320 rotations
Output	Limit switch output

● Analog I/O Module Ans For QnASCPU

Analog-digital conversion (A/D conversion) and digital-analog conversion (D/A conversion) can be performed with a single module.

Item		A1S66AI	DA ans Ans	A1S63ADA GAAS ANS	
		(A/D conversion) (D/A conversion)		(A/D conversion)	(D/A conversion)
Analog I/O	Voltage	-10 to 10 V DC			
Allaiog I/O	Current	0 to 20	mA DC	-20 to 20 mA DC	0 to 20 mA DC
Resolution	Voltage	5/2.5/1.	25/1 mV	2.5/1.25/0.83 mV	
	Current	5/4	μΑ	10/5/3.33 μΑ	5/2.5/1.7 μA
No. of channels		4	2	2	1
Conversion speed		400 μ s/4 channels	240 μs/2 channels	1ms/channel (at 1/4000) 2ms/channel (at 1/80 3ms/channel (at 1/12000)	

●Intelligent Communication Module (BASIC Language Programming) And For QNASCPU

Various calculations and data transfer between the CPU and external devices are performed with a BASIC program.

Item	A1SD51S OAS ANS		
Program language	AD51H-BASIC		
No. of tasks	Max. 2 tasks		
Interface	RS-232×2 channels, RS-422/485×1 channel		
General-purpose I/O	Input: 27 points, output: 17 points		

●AS-i Master Module Ans For QnASCPU

This is an AS-Interface Specification Version 2.04 compatible master module.

- · Has two interfaces for AS-i system and can control 31 slave modules per system.
- \cdot The overall distance is 100 m. However, this can be extended to a maximum of 300 m with two repeaters.
- · Supports automatic slave address assignment function (Automatic address assignment function).

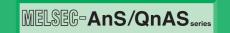
Item	A1SJ71AS92 ows Ans
Max. no. of slaves	62 (31 × 2 systems)
Max. no. of I/O points	Input: 248 points, output: 248 points
Refresh time	5 ms
Communication speed	167 kbps
Transmission distance	Max. 100 m/system (up to 300 m possible with 2 repeaters)

●B/NET Interface Module Mass For QnASCPU Ans For AnscPU

This module can display measurements and monitor distribution systems for buildings, and monitor and control entire electric system including electric power demand.

·	
Item	A1SJ71B62-S3 ONS ANS
No. of connectable stations	63
Transmission speed	9600 bps
Max. transmission distance	1000 m
Applicable cable	CPEV-S ϕ 1.2 (twisted pair cable)
Data transfer volume	Max. 16 bytes

General Specifications



General specifications indicate the environmental specifications in which this product can be installed and operated. Unless otherwise specified, the general specifications apply to all products of the AnS/QnAS Series.

Item			Specificati	ions	
Operating ambient temperature			0 to 55℃		
Storage ambient temperature			-20 to 7	5°C	
Operating ambient humidity		10	to 90%RH, non	-condensing	
Storage ambient humidity		10	to 90%RH, non	-condensing	
		Under	intermittent vib	ration	Sweep count
		Frequency	Acceleration	Amplitude	
		10 to 57 Hz	_	0.075 mm	
Vibration resistance	Conforming to JIS B 3502, IEC 61131-2	57 to 150 Hz	9.8 m/s^2	_	10 times each in
Vibration resistance		Under continuous vibration			X, Y, Z directions
		Frequency	Acceleration	Amplitude	(for 80 minutes)
		10 to 57 Hz	_	0.035 mm	
		57 to 150 Hz	4.9m/s^2	—	
Shock resistance	Conforming to	JIS B 3502, IEC	61131-2 (147	m/s², 3 times e	each in X, Y, Z directions)
Operating atmosphere			No corrosive {	gasses	
Operating altitude		2000 m or less			
Installation location			Inside contro	l panel	
Overvoltage category *1	II or less				
Pollution degree *2			2 or les	S	

^{*1:} This indicates the section of the power supply to which the equipment is assumed to be connected between the public electrical power distribution network and the machinery within premises. Category II applies to equipment for which electrical power is supplied from fixed facilities. The surge voltage withstand level for up to the rated voltage of 300 V is 2500 V.

(Notes

- (1) Noise immunity, withstand voltage, and insulation resistance will differ depending on the module. Please refer to the specifications of each module for details.
- (2) Please consult your local Mitsubishi representative when using the device in a location susceptible to direct vibrations or impact.

^{*2:} This index indicates the degree to which conductive material is generated in the environment where the equipment is used. In pollution degree 2, only non-conductive pollution occurs. Temporary conductivity caused by condensation is to be expected.

CPU Modules

OCPU Performance Specifications 🔤

Item		Q2ASHCPU-S1	Q2ASHCPU	Q2ASCPU-S1	Q2ASCPU		
Programming language Ladder/List/SFC							
1/0 0	control mode	Refresh					
No.	of I/O device points		8192	points			
No.	of I/O points	1024 points	512 points	1024 points	512 points		
Built	-in RAM capacity	240 KB	112 KB	240 KB	112 KB		
Prog	gram capacity	60 k steps	28 k steps	60 k steps	28 k steps		
	∕IIX value *2	3.8 inst	ructions	1.3 inst	ructions		
	Internal relay (M)*1		8192	points			
S	Latch relay (L) *1		8192	points			
devices	Step relay (S)		8192 points (exc	clusively for SFC)			
de	Annunciator (F)*1	2048 points					
Bit	Edge relay (V)*1	2048 points					
	Link relay (B) *1		8192	·			
ory	, ,			-			
Data memory ices	Timer (T)*1		2048 points (both h Low/high-speed switchin				
ta s			Low/high-speed measurement	nt unit is set by parameters.			
Data devices	D			0040			
de	Retentive timer (ST)*1		O points (max.				
Word	Counter (C) *1		Counter: 10 Interrupt counter: 0 po				
×							
	Data register (D)*1		12288	•			
	Link register (W)*1	8192 points					
4	File register *1		Max. 1018 k words (wh				
	umulator (A)		No				
	ter (P)		4096				
Inter	rupt pointer (I)	48 points					
Index register (V, Z) 16 points (Z only. V is used as an edge relay.)							
	ter control ting (N)	15 points					
	a type	Integer type (16 bits), precision integer type (32 bits), single precision floating-point type (32 bits)					
		Floating-point calculation, fixed-point BCD calculation, text string processing, trigonometric function,					
Func	ction	square root, exponential operation, natural logarithm					
	t at power on and ower restoration	Auto restart when "RUN" switch is ON.					
Cons	stant scan		Ye	 9S			
	(Power failure compensation)		Ye				
	ote RUN, STOP		Ye				
PAU			Ye				
	us latch		Ye				
Sam	pling trace		Ye	es			
	ne switch	No					
	operation	Yes					
Cloc	k	Yes					
	ne I/O module nge (hot-swap)		No				
_			Ye	ne .			
	rupt processing		YE YE				
	ment		YeVaria				
vvali	ch dog timer						
		No Yes					
Micro	computer program area diagnostic function						

^{*1:} Indicates the number of points in the default state. This can be changed by the parameters.

^{*2:} The PC MIX value is the average number of instructions, such as basic instructions or data processing instructions executed in 1 μ s. The processing speed will rise as the value increases.



●CPU Performance Specifications ៳

Item		A2USHCPU-S1	A2USCPU	A2SHCPU	A1SJHCPU A1SHCPU	
Prog	gramming language		Ladder/L			
1/0	control mode	Refi	resh	Refresh/ direct switching		
No.	of I/O device points	8192	points	2048	points	
No.	of I/O points	1024 points	512 p	oints	256 points	
Builf	-in RAM capacity	256 KB		64 KB		
	gram capacity	30 k steps	30 k steps 14 k s		8 k steps	
PC I	MIX value ^{*2}	2.0 instructions	0.9 instructions	0.5 instructions	0.4 instructions	
Bit devices	Internal relay (M) *1 Latch relay (L) *1 Step relay (S)	Total 818	92 points	Total 204	Total 2048 points	
t Q	Annunciator (F) *1	2048		·	points	
<u> </u>	Edge relay (V) *1		No			
≥—	Link relay (B) *1	8192	points	1024	points	
Data memory Word devices	Timer (T) *1 Retentive timer (ST) *1		100 ms timer 10 ms timer 100 ms retentive (total of up to 2048 points v	: 56 points e timer: 0 points		
Vord de	Counter (C) *1	Counter: 1 Interrupt counter: 0 p	024 points pints (max. 32 points)	Counter: 2 Interrupt counter: 0 po		
>	Data register (D)*1	8192	points	1024 points		
	Link register (W)*1	8192	points	1024 points		
	File register*1		O points (max.	8192 points)		
Acc	umulator (A)	2 points (16 bits/point)				
Poir	nter (P)	256 points				
Interrupt pointer (I) 32 points			pints			
Inde	x register (V, Z)) 14 points (16 bits/point)		2 points (16	6 bits/point)	
	ter control ting (N)	8 points				
Data type Integer t		Integer type (16 bits)	teger type (16 bits), precision integer type (32 bits), single precision floating-point type (32 bits)			
Fund	etion	Floating-point calculation, fixed-point BCD calculation, text string processing, trigonometric function, square root, exponential operation, natural logarithm		N	lo	
	t at power on and ower restoration	Auto restart when "RUN" switch is ON.				
Con	stant scan		Ye	S		
	(Power failure compensation)		Ye			
	note RUN, STOP		Ye			
PAL			Ye			
	tus latch	Yes				
	pling trace	Yes				
	ne switch	No You		Yes		
Cloc	o operation	Yes No Yes			IU	
	ne I/O module		10	5		
	nge (hot-swap)		No	0		
Interrupt processing			Ye	S		
Com	nment			/es		
Wat	ch dog timer	200 ms	s (fixed)	Variable		
Micro	ocomputer program area	Exclusive	ly for SFC	•	For users, packages, SFC	
Self	-diagnostic function		Ye	S		
*] · r	*1: Indicates the number of points in the default state. This can be changed by the parameters.					

^{*1:} Indicates the number of points in the default state. This can be changed by the parameters.

^{*2:} The PC MIX value is the average number of instructions such as basic instructions or data processing instructions executed in 1 μ s. The processing speed will rise as the value increases.

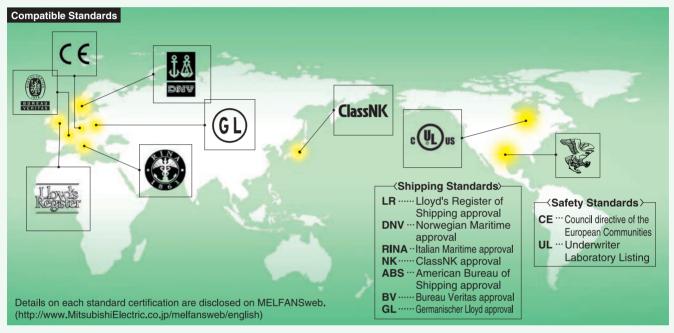
A well-developed support system ensures smooth FA operations

Complying with international quality assurance standards.

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







Global FA Center

"Mitsubishi FA Centers" are located throughout North America, Europe and Asia to develop products complying with international standards and to provide attentive services.

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○THAILAND FA CENTER

MITSUBISHI ELECTRIC AUTOMATION THAILAND CO., LTD

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Online information for reference and learning...The MELFANSweb offers speedy answers to questions about Mitsubishi FA devices.

MELFANSweb – your source for FA information

The "MELFANSweb" offers a wealth of information concerning Mitsubishi FA devices. Registering over 100,000 hits a day, the site is clearly popular with our customers. The MELFANSweb content includes information about products, an FA terminology glossary, and information about seminars and FA devices, and it represents a powerful resource for users of Mitsubishi FA



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MELFANSweb web site URL:

http://www.MitsubishiElectric.co.jp/english/



- 01. MELSEC Q Series Data Book L (NA) 08029E-B
- 02. MELSEC Process Control Catalog L (NA) 08030E-A
- 03. Motion Controller Catalog L (NA) 03014-B
- 04. CC-Link, CC-Link/LT Catalog L (NA) 08038E-A
- 05. CC-Link and CC-Link/LT Compatible Product

 Databook L (NA) 08039E-A
- 06. MELSOFT Catalog L (NA) 08008-C
- 07. GOT-1000 Series Catalog L (NA) 08054E
- 08. MELSERVO-J2-Super Catalog L (NA) 03007
- 09. MELSERVO-J3-Super Catalog L (NA) 03017-B
- 10. Inverter Family Catalog L (NA) 06036





















WARRANTY

Please confirm the following product warranty details before starting use.

Gratis Warranty Term and Gratis Warranty Range

If any faults or defects (hereinafter "Failure") found to be the responsibility of Mitsubishi occurs during use of the product within the gratis warranty term, the product shall be repaired at no cost via the dealer or Mitsubishi Service Company. Note that if repairs are required at a site overseas, on a detached island or remote place, expenses to dispatch an engineer shall be charged for. Mitsubishi shall not be held responsible for readjustment and trial operations at the site resulting from replacement of faulty modules.

■Gratis Warranty Term

The gratis warranty term of the product shall be for one year after the date of purchase or delivery to a designated place. Note that after manufacture and shipment from Mitsubishi, the maximum distribution period shall be six (6) months, and the longest gratis warranty term after manufacturing shall be eighteen (18) months. The gratis warranty term of repair parts shall not exceed the gratis warranty term before repairs.

Gratis Warranty Range

- (1) The range shall be limited to normal use within the usage state, usage methods and usage environment, etc., which follow the conditions and precautions, etc., given in the instruction manual, user's manual and caution labels on the product.
- (2) Even within the gratis warranty term, repairs shall be charged for in the following cases.
- Failure occurring from inappropriate storage or handling, carelessness or negligence by the user. Failure caused by the user's hardware or software design.
- Failure caused by unapproved modifications, etc., to the product by the user.
- 3. When the Mitsubishi product is assembled into a user's device, Failure that could have been avoided if functions or structures, judged as necessary in the legal safety measures the user's device is subject to or as necessary by industry standards, had been provided.
- Failure that could have been avoided if consumable parts (battery, backlight, fuse, etc.) designated in the instruction manual had been correctly serviced or replaced.
- Failure caused by external irresistible forces such as fires or abnormal voltages, and Failure caused by force majeure such as earthquakes, lightning, wind and water damage.
- 6. Failure caused by reasons unpredictable by scientific technology standards at time of shipment from Mitsubishi.
- 7. Any other failure found not to be the responsibility of Mitsubishi or the user.

Onerous repair term after discontinuation of production

- (1) Mitsubishi shall accept onerous product repairs for seven (7) years after production of the product is discontinued. Discontinuation of production shall be notified with Mitsubishi Technical Bulletins, etc.
- (2) Product supply (including repair parts) is not possible after production is discontinued.

Overseas service

Overseas, repairs shall be accepted by Mitsubishi's local overseas FA Center. Note that the repair conditions at each FA Center may differ.

Exclusion of chance loss and secondary loss from warranty liability

Regardless of the gratis warranty term, Mitsubishi shall not be liable for compensation to damages caused by any cause found not to be the responsibility of Mitsubishi, chance losses, lost profits incurred to the user by Failures of Mitsubishi products, damages and secondary damages caused from special reasons regardless of Mitsubishi's expectations, compensation for accidents, and compensation for damages to products other than Mitsubishi products and other duties. In addition, Mitsubishi shall not be liable for compensation resulting from replacement work carried out by user, readjustment of machinery and facilities at site, trial operation at startup or any other duties.

Changes in product specifications

The specifications given in the catalogs, manuals or technical documents are subject to change without prior notice.

Product application

- (1) In using the Mitsubishi MELSEC programmable logic controller, the usage conditions shall be that the application will not lead to a major accident even if any problem or fault should occur in the programmable logic controller device, and that backup and fail-safe functions are systematically provided outside of the device for any problem or fault.
- (2) The Mitsubishi general-purpose programmable logic controller has been designed and manufactured for applications in general industries, etc. Thus, applications in which the public could be affected such as in nuclear power plants and other power plants operated by respective power companies, and applications in which a special quality assurance system is required, such as for Railway companies or National Defense purposes shall be excluded from the programmable logic controller applications.

When considering use in aircraft, medical applications, railways, incineration and fuel devices, manned transport devices, equipment for recreation and amusement, and safety devices, in which human life or assets could be greatly affected and for which a particularly high reliability is required in terms of safety and control system, please consult with Mitsubishi and discuss the required specifications. Note that even with these applications, if the user approves that the application is to be limited and a special quality is not required, application shall be possible upon due process of documents.



QnAS

CPU, base, power supply

Product		Туре	Outline
		Q2ASCPU	No. of I/O points: 512 points, no. of I/O device points: 8192 points, program capacity: 28 k steps, basic instruction processing speed (LD instruction): 0.20 μ s
9011	Q2ASCPU-S1	No. of I/O points: 1024 points, no. of I/O device points: 8192 points, program capacity: 60 k steps, basic instruction processing speed (LD instruction): 0.20 μ s	
CPU		Q2ASHCPU	No. of I/O points: 512 points, no. of I/O device points: 8192 points, program capacity: 28 k steps, basic instruction processing speed (LD instruction): 0.075 μ s
		Q2ASHCPU-S1	No. of l/O points: 1024 points, no. of l/O device points: 8192 points, program capacity: 60 k steps, basic instruction processing speed (LD instruction): 0.075 μ s
		A1S38HB	8 slots, power supply module mountable, for QnAS and AnS Series modules, high-speed access for QnAS Series
		A1S38HBEU	8 slots, power supply module mountable, for QnAS and AnS Series modules, high-speed access for QnAS Series, CE compliant
	Main base	A1S38B	8 slots, power supply module mountable, for QnAS/AnS Series modules
		A1S35B	5 slots, power supply module mountable, for QnAS/AnS Series modules
		A1S33B	3 slots, power supply module mountable, for QnAS/AnS Series modules
		A1S32B	2 slots, power supply module mountable, for QnAS/AnS Series modules
		A1S58B	8 slots, power supply module unmountable, for QnAS/AnS Series modules
		A1S55B	5 slots, power supply module unmountable, for QnAS/AnS Series modules
	Extension base	A1S52B	2 slots, power supply module unmountable, for QnAS/AnS Series modules
		A1S68B	8 slots, power supply module mountable, for QnAS/AnS Series modules
_		A1S65B	5 slots, power supply module mountable, for QnAS/AnS Series modules
Base		A1SC01B	For extension base horizontal connection, 0.055 m *One cable per extension base required
		A1SC03B	For extension base connection, 0.3 m *One cable per extension base required
		A1SC07B	For extension base connection, 0.7 m *One cable per extension base required
		A1SC12B	For extension base connection, 1.2 m *One cable per extension base required
		A1SC30B	For extension base connection, 3 m *One cable per extension base required
	Extension cable	A1SC60B	For extension base connection, 6 m *One cable per extension base required
		A1SC05NB	For A5 B/A6 B extension base connection, 0.45 m *One cable per extension base required
		A1SC07NB	For A5 B/A6 B extension base connection, 0.7 m *One cable per extension base required
		A1SC30NB	For A5 B/A6 B extension base connection, 3 m *One cable per extension base required
		A1SC50NB	For A5 B/A6 B extension base connection, 5 m *One cable per extension base required
	Blank cover	A1SG60	Blank cover for I/O slot
		A1S61PN	Input voltage range: 100 to 240 V AC, output voltage: 5 V DC, output current: 5 A
Power sup	oply	A1S62PN	Input voltage range: 100 to 240 V AC, output voltage: 5/24 V DC, output current: 3/0.6 A
		A1S63P	Input voltage range: 24 V DC, output voltage: 5 V DC, output current: 5 A
Battery		A6BAT	For IC-RAM memory/A7HGP CMOS back-up
		Q1MEM-64S	SRAM memory card (JEIDA Ver.4.1 compliant), RAM capacity: 64 KB
		Q1MEM-128S	SRAM memory card (JEIDA Ver.4.1 compliant), RAM capacity: 128 KB
		Q1MEM-256S	SRAM memory card (JEIDA Ver.4.1 compliant), RAM capacity: 256 KB
		Q1MEM-512S	SRAM memory card (JEIDA Ver.4.1 compliant), RAM capacity: 512 KB
		Q1MEM-1MS	SRAM memory card (JEIDA Ver.4.1 compliant), RAM capacity: 1 MB
Memory c	ard	Q1MEM-2MS	SRAM memory card (JEIDA Ver.4.1 compliant), RAM capacity: 2 MB
		Q1MEM-64SE	SRAM+E2PROM memory card (JEIDA Ver.4.1 compliant), RAM capacity: 32 KB, E2PROM capacity: 32 KB
		Q1MEM-128SE	SRAM+E2PROM memory card (JEIDA Ver.4.1 compliant), RAM capacity: 64 KB, E2PROM capacity: 64 KB
		Q1MEM-256SE	SRAM+E2PROM memory card (JEIDA Ver.4.1 compliant), RAM capacity: 128 KB, E2PROM capacity: 128 KB
		Q1MEM-512SE	SRAM+E2PROM memory card (JEIDA Ver.4.1 compliant), RAM capacity: 256 KB, E2PROM capacity: 256 KB
		Q1MEM-1MSE	SRAM+E2PROM memory card (JEIDA Ver.4.1 compliant), RAM capacity: 512 KB, E2PROM capacity: 512 KB

QnAS

ı	Product	Туре	Outline
		A1SX40	16 points, 12/24 V DC, 3/7 mA, response time:10 ms, 16 points/common, positive common, 20-point terminal block
		A1SX40-S1	16 points, 24 V DC, 7 mA, response time: 0.2 ms, 16 points/common, positive common, 20-point terminal block, high-speed input
		A1SX40-S2	16 points, 24 V DC, 7 mA, response time: 10 ms, 16 points/common, positive common, 20-point terminal block, for high leakage current sensor
		A1SX41	32 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 32 points/common, positive common, 40-pin connector
	DC (Positive common)	A1SX41-S1	32 points, 24 V DC, 7 mA, response time: 0.3 ms, 32 points/common, positive common, 40-pin connector, high-speed input
	(i ostave common)	A1SX41-S2	32 points, 24 V DC, 7 mA, response time: 10 ms, 32 points/common, positive common, 40-pin connector, for high leakage current sensor
		A1SX42	64 points, 12/24 V DC, 2/5 mA, response time: 10 ms, 32 points/common, positive common, 40-pin connector
		A1SX42-S1	64 points, 24 V DC, 5 mA, response time: 0.3 ms, 32 points/common, positive common, 40-pin connector, high-speed input
		A1SX42-S2	64 points, 24 V DC, 5 mA response time: 10 ms, 32 points/common, positive common, 40-pin connector, for high leakage current sensor
	Dynamic input	A1S42X	16/32/48/64 points, 12/24 V DC, 4/9 mA, response time: 0.4 ms, 24-pin connector, high-speed dynamic input
	AC100	A1SX10	16 points, 100 to 120 V AC, 6 mA, response time: 35 ms, 16 points/common, 20-point terminal block
Input	AC100	A1SX10EU	16 points, 100 to 120 V AC, 7 mA, response time: 35 ms, 16 points/common, 20-point terminal block, CE compliant
Input	AC200	A1SX20	16 points, 200 to 240 V AC, 9 mA, response time: 55 ms, 16 points/common, 20-point terminal block
		A1SX20EU	16 points, 200 to 240 V AC, 11 mA, response time: 55 ms, 16 points/common, 20-point terminal block, CE compliant
		A1SX71	32 points, 5/12/24 V DC, 1.2/3.3/7 mA, response time: 3 ms, 32 points/common, positive/negative common, 40-pin connector
		A1SX80	16 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common, positive/negative common, 20-point terminal block
		A1SX80-S1	16 points, 24 V DC, 7 mA, response time: 0.5 ms, 16 points/common, positive/negative common, 20-point terminal block, high-speed input
	DC (Positive/negative	A1SX80-S2	16 points, 24 V DC, 7 mA, response time: 10 ms, 16 points/common, positive/negative common, 20-point terminal block, for high leakage current sensor
	common)	A1SX81	32 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 32 points/common, positive/negative common, 37-pin D-sub connector
		A1SX81-S2	32 points, 24 V DC, 7 mA, response time: 10 ms, 32 points/common, positive/negative common, 37-pin D-sub connector, for high leakage current sensor
		A1SX82-S1	64 points, 24 V DC, 5 mA, response time: 0.3 ms, 32 points/common, positive/negative common, 40-pin connector, high-speed input
	AC/DC	A1SX30	16 points, 12 V DC/24 V DC/12 V AC/24 V AC, 4.2 mA (12 V DC, 12 V AC)/8.6 mA (24 V DC, 24 V AC), response time: 2.5 ms, 16 points/common, 20-point terminal block



QnAS

Р	Product	Туре	Outline
		A1SY10	16 points, 24 V DC/240 V AC, 2 A/point, 8 A/common, response time: 12 ms, 8 points/common, 20-point terminal block
		A1SY10EU	16 points, 24 V DC/120 V AC, 2 A/point, 8 A/common, response time: 12 ms, 8 points/common, 20-point terminal block, CE compliant
	Relay	A1SY14EU	12 points, 24 V DC/240 V AC, 2 A/point, 8 A/common, response time: 12 ms, 4 points/common, 20-point terminal block, CE compliant
		A1SY18A	8 points, 24 V DC/240 V AC, 2 A/point, 8 A/module, response time: 12 ms, all points independent, 20-point terminal block
		A1SY18AEU	8 points, 24 V DC/240 V AC, 2 A/point, response time: 12 ms, all points independent, 20-point terminal block, CE compliant
	Trian	A1SY22	16 points, 100/240 V AC, leakage at OFF: 1.5 mA (120 V AC), 3 mA (240 V AC), response time: 0.5 Hz + 1 ms, 8 points/common, 20-point terminal block, with fuse and surge suppressor
	Triac	A1SY28A	8 points, 100 to 240 V AC, leakage at OFF: 1.5 mA (120 V AC), 3 mA (240 V AC), response time: 0.5 Hz + 1 ms, all points independent, 20-point terminal block, with surge suppressor
	Dynamic output	A1S42Y	16/32/48/64 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 24-pin connector, with fuse, dynamic output
		A1SY40	16 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 8 points/common, sink type, 20-point terminal block, with fuse and surge suppressor
		A1SY41	32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 32 points/common, sink type, 40-pin connector, with fuse and surge suppressor
		A1SY40P	16 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 1 ms, 8 points/common, sink type, 20-point terminal block, with thermal/short-circuit protection and surge suppressor
Output	Transistor (Sink)	A1SY41P	32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 1 ms, 32 points/common, sink type, 40-pin connector, with thermal/short-circuit protection and surge suppressor
		A1SY42P	64 points, 2/24 V DC, leakage at OFF: 0.1 mA, response time: 1 ms, 32 points/common, sink type, 40-pin connector, with thermal/short-circuit protection and surge suppressor
		A1SY50	16 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 8 points/common, sink type, 20-point terminal block, with fuse and surge suppressor
		A1SY60	16 points, 24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 8 points/common, sink type, 20-point terminal block, with fuse and surge suppressor
	Transistor (Source)	A1SY60E	16 points, 5/12/24 V DC, leakage at OFF: 0.1 mA, response time: 10 ms, 8 points/common, source type, 20-point terminal block, with fuse and surge suppressor
	Transistor	A1SY68A	8 points, 5/12/24/48 V DC, leakage at OFF: 0.1 mA, response time: 10 ms, all points independent, 20-point terminal block, with surge suppressor
	TTL CMOS	A1SY71	32 points, 5/12 V DC, response time: 1 ms, 32 points/common, sink type, 40-pin connector, with fuse
		A1SY80	16 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 8 points/common, source type, 20-point terminal block, with fuse and surge suppressor
	Transistor (Source)	A1SY81	32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 32 points/common, source type, 37-pin D-sub connector, with fuse and surge suppressor
		A1SY82	64 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 32 points/common, source type, 40-pin connector, with fuse and surge suppressor
	DC/transistor	A1SH42	Input: 32 points, 12/24 V DC, 2/5 mA, response time: 10 ms, 32 points/common; output 32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 32 points/common, with fuse and surge suppressor; 40-pin connector
I/O	207.1.411010101	A1SH42-S1	Input: 32 points, 24 V DC, 5 mA, response time: 0.3 ms, 32 points/common; output 32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 32 points/common, with fuse and surge suppressor; 40-pin connector
	DC/relay	A1SX48Y18	Input: 8 points, 24 V DC, 7 mA, response time: 10 ms, 8 points/common, positive common; output 8 points, 24 V DC/240 V AC, 2 A/point, 8 A/common, response time: 12 ms, 8 points/common; 20-point terminal block
	Donolay	A1SJ-56DR	Input: 32 points, 24 V DC, 7 mA, response time: 10 ms, 16 points/common, positive common; output 24 points, 24 V DC/240 V AC, 2 A/point, 5 A/common, response time: 12 ms, 8 points/common; 34-point terminal block
	DC/transistor	A1SX48Y58	Input: 8 points, 24 V DC, 7 mA, response time: 10 ms, 8 points/common, positive common; output 8 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 8 points/common, with fuse and surge suppressor; 20-point terminal block
	DC/transistor	A1SJ-56DT	Input: 32 points, 24 V DC, 7 mA, response time: 10 ms, 16 points/common, positive common; output 24 points, 24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 8 points/common, with surge suppressor; 34-point terminal block

Qn**A**S

Pr	roduct	Туре	Outline
		A6CON1	40-pin connector, soldering type
		A6CON2	40-pin connector, crimp-contact type
		A6CON3	40-pin connector, IDC for flat cables
Connector		A6CON4	40-pin connector, soldering type (bidirectional cable connectable)
		A6CON1E	37-pin D-sub connector, soldering type
		A6CON2E	37-pin D-sub connector, crimp-contact type
		A6CON3E	37-pin D-sub connector, IDC for flat cables
		A6TBX36-E	For negative common input modules (standard type)
		A6TBX54-E	For negative common input modules (2-wire type)
		A6TBX70	For positive common input modules (3-wire type)
Connector/	terminal block	A6TBX70-E	For negative common input modules (3-wire type)
conversion		A6TBY36-E	For source type output modules (standard type)
		A6TBY54-E	For source type output modules (2-wire type)
		A6TBXY36	For positive common input modules and sink type output modules (standard type)
		A6TBXY54	For positive common input modules and sink type output modules (2-wire type)
		AC05TB	For A6TBXY36, A6TBXY54, A6TBX70 (for positive common / sink type); 0.5 m
		AC10TB	For A6TBXY36, A6TBXY54, A6TBX70 (for positive common / sink type); 1 m
		AC20TB	For A6TBXY36, A6TBXY54, A6TBX70 (for positive common / sink type); 2 m
		AC30TB	For A6TBXY36, A6TBXY54, A6TBX70 (for positive common / sink type); 3 m
Connector/		AC50TB	For A6TBXY36, A6TBXY54, A6TBX70 (for positive common / sink type); 5 m
terminal		AC80TB	For A6TBXY36, A6TBXY54, A6TBX70 (for positive common / sink type); 8 m *Common power supply 0.5 A or lower
block conversion	Cable	AC100TB	For A6TBXY36, A6TBXY54, A6TBX70 (for positive common / sink type); 10 m *Common power supply 0.5 A or lower
module		AC05TB-E	For A6TBX36-E, A6TBX36-E, A6TBX54-E, A6TBY54-E, A6TBX70-E (for negative common / source type); 0.5 m
modulo		AC10TB-E	For A6TBX36-E, A6TBY36-E, A6TBX54-E, A6TBY54-E, A6TBX70-E (for negative common / source type); 1 m
		AC20TB-E	For A6TBX36-E, A6TBY36-E, A6TBX54-E, A6TBY54-E, A6TBX70-E (for negative common / source type); 2 m
		AC30TB-E	For A6TBX36-E, A6TBY36-E, A6TBX54-E, A6TBY54-E, A6TBX70-E (for negative common / source type); 3 m
		AC50TB-E	For A6TBX36-E, A6TBY36-E, A6TBX54-E, A6TBY54-E, A6TBX70-E (for negative common / source type); 5 m
Relay term	inal module	A6TE2-16SRN	16 points, 24 V DC/240 V AC, ZA/point, 8 A/common, response time: 12 ms, 8 points/common, 40-pin connector
		AC06TE	For A6TE2-16SRN, 0.6 m
Relay		AC10TE	For A6TE2-16SRN, 1 m
terminal	Cable	AC30TE	For A6TE2-16SRN, 3 m
module		AC50TE	For A6TE2-16SRN, 5 m
		AC100TE	For A6TE2-16SRN, 10 m
Interrupt in	put	A1SI61	Interrupt input: 16 points, 12/24 V DC, 4/8 mA, response time: 0.2 ms, 16 points/common, 20-point terminal block
Dummy mo	odule	A1SG62	16/32/48/64-point dummy module
	A = C	A1S-TA32	32-point IDC terminal block adapter, 0.5 mm² (AWG20)
Conversion	AnS conversion	A1S-TA32-3	32-point IDC terminal block adapter, 0.3 mm² (AWG22)
adapter	adapter	A1S-TA32-7	32-point IDC terminal block adapter, 0.75 mm² (AWG18)
		A1S-TB32	32-point terminal block adapter, 0.14 to 0.75 mm² (AWG26 to 18), for conversion to European type terminal block
Pulse catch		A1SP60	Input: 16 points, 24 V DC, 7 mA, response time: 1.0 ms, 16 points/common, positive/negative common, 20-point terminal block, pulse catch function (minimum input pulse width: 0.5 ms)
Analog time	er	A1ST60	No. of timer points: 8 points; timer setting ranges: 0.1 to 1.0 s, 1 to 10 s, 10 to 60 s, 60 to 600 s
Protective	cover	A1STEC-S	A1S terminal block cover short



QnAS

Analog I/O module

Product		Туре	Outline
Analog	Voltage/	A1S64AD	4 channels; input: -10 to 10 V DC, -20 to 20 mA; output (resolution): -4000 to 4000, -8000 to 8000, -12000 to 12000; conversion speed: 20 ms/channel; 20-point terminal block
input	current input	A1S68AD	8 channels; input: -10 to 10 V DC, 0 to 20 mA; output (resolution): 0 to 4000, -2000 to 2000; conversion speed: 0.5 ms/channel; 20-point terminal block
		A1S62DA	2 channels; input (resolution): -4000 to 4000, 0 to 4000 / -8000 to 8000, 0 to 8000 / -12000 to 12000, 0 to 12000; output: -10 to 10 V DC, 0 to 20 mA; conversion speed: 25 ms/2 channels; 20-point terminal block
Analog output	Voltage/ current output	A1S68DAV	8 channels, input (resolution): -2000 to 2000, output: -10 to 10 V DC, conversion speed: 4 ms/8 channels, 20-point terminal block
		A1S68DAI	8 channels, input (resolution): 0 to 4000, output: 4 to 20 mA DC, conversion speed: 4 ms/8 channels, 20-point terminal block
A I I/O		A1S63ADA	Analog input: 2 channels; input: -10 to 10 V DC, -20 to 20 mA; analog output: 1 channel; output: -10 to 10 V DC, 0 to 20 mA; resolution: 1/4000, 1/8000, 1/12000; conversion speed: 3 ms/channel (at 1/12000); 20-point terminal block
Analog I/C)	A1S66ADA	Analog input: 4 channels; analog output: 2 channels; analog I/O : -10 to 10 V DC, 0 to 20 mA; resolution: $1/4000$; conversion speed: $400~\mu$ s/4 channels (analog input), 240 μ s/2 channels (analog output); 20-point terminal block
_	Platinum RTD	A1S62RD3N	2 channels, 3-wire type platinum RTD (Pt100 [JIS C1604-1997, IEC 751-am2, JIS C1604-1989, DIN 43760-1980], JPt100 [JIS C1604-1981]), conversion speed: 40 ms/channel, 20-point terminal block
Temperature input		A1S62RD4N	2 channels, 4-wire type platinum RTD (Pt100 [JIS C1604-1997, IEC 751-am2, JIS C1604-1989, DIN 43760-1980], JPt100 [JIS C1604-1981]), conversion speed: 40 ms/channel, 20-point terminal block
	Thermocouple	A1S68TD	8 channels, thermocouple (K, E, J, T, B, R, S), conversion speed: 400 ms/8 channels, 20-point terminal block
Temperature control		A1S64TCTRT	Standard control: 4 channels, heating-cooling control: 2 channels; thermocouple (K, J, T, B, S, E, R, N, U, L, PLII, W5Re/W26Re), platinum RTD (Pt100, JPt100); sampling cycle: 0.5 s/4 channels (standard control), 0.5 s/2 channels, (heating-cooling control); 20-point terminal block
		A1S64TCTRTBW	Standard control: 4 channels, heating-cooling control: 2 channels; thermocouple (K, J, T, B, S, E, R, N, U, L, PLII, W5Re/W26Re), platinum RTD (Pt100, JPt100); sampling cycle: 0.5 s/4 channels (standard control), 0.5 s/2 channels, (heating-cooling control); with heater disconneciton detection; 20-point terminal block

QnAS

Pulse I/O and positioning module

Product		Туре	Outline
		A1SD61	1 channel; 50/10 kpps; count input signal: 5/12/24 V DC; external input: 5/12/24 V DC; comparison output: transistor (open collector), 12/24 V DC, 0.1 A/point, 0.8 A/common; 20-point terminal block
		A1SD62	2 channels; 100/10 kpps; count input signal: 5/12/24 V DC; external input: 5/12/24 V DC; coincidence output: transistor (sink), 12/24 V DC, 0.5 A/point, 2 A/common; 20-point terminal block
High speed	d counter	A1SD62E	2 channels; 100/10 kpps; count input signal: 5/12/24 V DC; external input: 5/12/24 V DC; conincidence output: transistor (source), 12/24 V DC, 0.1 A/point, 0.4 A/common; 20-point terminal block
		A1SD62D	2 channels; 200/10 kpps; count input signal: RS-422-A (differential line driver); external input: 5/12/24 V DC, coincidence output: transistor (sink), 12/24 V DC, 0.5 A/point, 2 A/common; 20-point terminal block
		A1SD62D-S1	2 channels; 200/10 kpps; count input signal: RS-422-A (differential line driver); external input: RS-422-A (differential line driver); coincidence output: transistor (sink), 12/24 V DC, 0.5 A/point, 2 A/common; 20-point terminal block
Positioning	9	A1SD70	1 axis, control unit: pulse, no. of positioning data: 1 piece/axis, 15-pin connector/9-pin connector, analog voltage output (-10 to 10 V DC)
	Open	A1SD75P1-S3	1 axis; control unit: pulse, mm, inch, degree; no. of positioning data: 600 pieces/axis; max. output pulse: 400 kpps (differential driver), 200 kpps (open collector); 36-pin connector
	collector output/ Differential output	A1SD75P2-S3	2 axes; 2-axis linear interpolation/ 2-axis circular interpolation; control unit: pulse, mm, inch, degree; no. of positioning data: 600 pieces/axis; max. output pulse: 400 kpps (differential driver), 200 kpps (open collector); 36-pin connector
		A1SD75P3-S3	3 axes; 2-axis linear interpolation/ 2-axis circular interpolation; control unit: pulse, mm, inch, degree; no. of positioning data: 600 pieces/axis; max. output pulse: 400 kpps (differential driver), 200 kpps (open collector); 36-pin connector
	SSCNET connection	A1SD75M1	1 axis; control unit: pulse, mm, inch, degree; no. of positioning data: 600 pieces/axis; 36-pin connector; SSCNET connection
		A1SD75M2	2 axes; 2-axis linear interpolation/ 2-axis circular interpolation; control unit: pulse, mm, inch, degree; no. of positioning data: 600 pieces/axis; 36-pin connector; SSCNET connection
Positioning		A1SD75M3	3 axes; 2-axis linear interpolation/ 2-axis circular interpolation; control unit: pulse, mm, inch, degree; no. of positioning data: 600 pieces/axis 36-pin connector; SSCNET connection
		AD75C20SC	Cable for connecting AD75P□/A1SD75P□ positioning module and MR-C□A, 2 m
		AD75C20SH	Cable for connecting AD75P□/A1SD75P□ positioning module and MR-H□A, 2 m
		AD75C20SJ	Cable for connecting AD75P□/A1SD75P□ positioning module and MR-J□A, 2 m
	Cable	AD75C20SJ2	Cable for connecting AD75P□/A1SD75P□ positioning module and MR-J2□A, 2 m
		AD75C20SNH	Cable for connecting AJ65BT-D75P2-S3 positioning module and MR-H□A, 2 m
		AD75C20SNJ2	Cable for connecting AJ65BT-D75P2-S3 positioning module and MR-J2/J2S, 2 m
		A1SD75-C01HA	Conversion cable for connecting A1SD75P□/M□ and peripheral devices
	Bracket	AD75CK	Cable clamp bracket for AD75, GOT
	Tarabian	AD75TU	Handy type; positioning data writing, reading, testing, monitoring, etc; positioning data back-up (cassette I/F function)
	Teaching unit	AD71TU	Handy type; positioning data writing, reading, testing, monitoring, etc.
Position de	etection	A1S62LS	No. of position detection axes: 1, resolution: 4096 \times 32 rotations to 409.6 \times 320 rotations, no. of output channels: 16

Information module

		A1SJ71QE71N3-T	10BASE-T
Ethernet		A1SJ71QE71N-B2	10BASE2
		A1SJ71QE71N-B5	10BASE5
Sorial com	nmunication	A1SJ71QC24N1	RS-232: 1 channel, RS-422/485: 1 channel, transmission speed: 2 channels can be used simultaneously at 115.2 kbps
Jenai Con	illiulication	A1SJ71QC24N1-R2	RS-232: 2 channels, transmission speed: 2 channels can be used simultaneously at 115.2 kbps
Intelligent	communication	A1SD51S	BASIC program execution module, RS-232: 2 channels, RS-422/485: 1 channel
intelligent	Communication	SW□IVD-AD51HP	Software package for QD51H, AD51H-S3, A1SD51S
Memory card interface		A1SD59J-S2	Memory card interface (A1SD59J-MIF external attachment)
		A1SD59J-MIF	A1SD59J-S2 dedicated memory card module
Memory card interface	Cable	AC20MIF-L	Cable for connecting A1SD59J-S2 and A1SD59J-MIF, 2 m



QnAS

Control network module

Product		Туре	Outline
CC-Link		A1SJ61QBT11	Master/local station, for QnASCPU
AS-i		A1SJ71AS92	AS-i system master module
	SI/QSI	A1SJ71QLP21	SI/QSI/H-PCF/broadband H-PCF optical cable, double loop, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station)
	optical cable	A1SJ71QLP21S	SI/QSI/H-PCF/broadband H-PCF optical cable, double loop, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station), with external supply power function
MELSEC NET/10	Coaxial cable	A1SJ71QLR21	3C-2V/5C-2V coaxial cable, double loop, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station)
N⊏1/10	SI/QSI optical cable	A1SJ72QLP25	SI/QSI/H-PCF/broadband H-PCF optical cable, double loop, remote I/O network (remote I/O station)
		A1SJ72QLR25	3C-2V/5C-2V coaxial cable, double loop, remote I/O network (remote I/O station)
	Coaxial cable	A1SJ71QBR11	3C-2V/5C-2V coaxial cable, single bus, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station)
		A1SJ72QBR15	3C-2V/5C-2V coaxial cable, single bus, remote I/O network (remote I/O station)
MELOEON		A1SJ71AP21	SI-200/250 optical cable, double loop, MELSECNET(II) master/local station
MELSECN	NEI(II)	A1SJ71AR21	3C-2V/5C-2V coaxial cable, double, loop MELSECNET(II) master/local station
	Optical bypass switch	A6BSW-P-S3	Main station side (IN/OUT): SI optical cable, opposite station side (IN/OUT): SI optical cable, for optical data link faulty station bypass, station to station extension
		A6BSW-P-S4	Main station side (IN/OUT): SI optical cable, opposite station side IN: GI optical cable, opposite station side OUT: SI optical cable, for optical data link faulty station bypass, station to station extension, cable conversion
MELSEC NET(II)		A6BSW-P-S5	Main station side (IN/OUT): SI optical cable, opposite station side (IN/OUT): GI optical cable, for optical data link faulty station bypass, station to station extension, cable conversion
NEI(II)		A6BSW-P-S6	Main station side (IN/OUT): GI optical cable, opposite station side (IN/OUT): GI optical cable, for optical data link faulty station bypass, station to station extension
		A6BSW-P-S7	Main station side (IN/OUT): GI optical cable, opposite station side (IN/OUT): SI optical cable, for optical data link faulty station bypass, station to station extension, cable conversion
	Coxial tap	A6BSW-R	Coaxial data link faulty station bypass, slave station extendable, master station redundancy operation switching
MELOEON	IET/D	A1SJ71AT21B	Twisted pair cable, single bus, MELSECNET/B (master/local station)
MELSECN	NE I/B	A1SJ72T25B*1	Twisted pair cable, single bus, MELSECNET/B (remote I/O station)
MELSECN	NET/MINI-S3	A1SJ71PT32-S3	Optical/twisted pair cable master module
MELSECNET/MINI-S3	Transmission converter	AJ35PTC-CNV	Twisted pair cable/plastic fiber cable converter (bidirectional conversion), for MELSECNET/MINI, A2C
MELSEC-I/O Link		A1SJ51T64	Twisted pair/cab-tire cable, single bus, MELSEC-I/O Link (master module)
B/NET		A1SJ71B62-S3	Transmission signal device B/NET interface module for power distribution controller
IENAN/ET	(ODON 4)	A1SJ71J92-S3	JEMANET(OPCN-1) interface module, master station
JEMANET(OPCN-1)		A1SJ72J95	JEMANET(OPCN-1) interface module, slave station
Peripheral	devices		
Programming module	Cable	AC300R4	Cable for connecting CPU and A7HGP/A6GPP, 30 m
Intelligent CDD		VC3UNI3V	Cable for connecting paripharal devices and A/OnA Series CRII

Programming module	Cable	AC300R4	Cable for connecting CPU and A7HGP/A6GPP, 30 m
Intelligent GPP	Cable	AC30N2A	Cable for connecting peripheral devices and A/QnA Series CPU
Programm	ing module	Q6PU	Program input device connected to CPU, for QnACPU
Programming	Cable	AC20R4-EX	GPP cable for panel front relay, 2 m
module		AC30R4	Cable for connecting CPU and A7PU/A7HGP/A6GPP, 3 m *A7HGP-SET/A6GPP-SET provided
Modem interface module C		Q6TEL	Interface module to connect peripheral devices to the telephone line

ID System

ID interface	A1SD35ID1	Reader/writer 1-channel connection, for AnSCPU/QnASCPU
пр іптепасе	A1SD35ID2	Reader/writer 2-channel connection, for AnSCPU/QnASCPU

 $^{^{\}star}1$ The production will be discontinued at the end of September, 2008.

AnS

CPU, base, power supply

Product Type		Type	Outline
		A1SCPUC24-R2	No. of I/O points: 256 points, no. of I/O device points: 256 points, program capacity: 8 k steps, basic instruction processing
		A130F0024-N2	speed (LD instruction):1.0 μ s, built-in RAM memory capacity: 32 KB, with computer link function
		A1SHCPU	No. of I/O points: 256 points, no. of I/O device points: 256 points, program capacity: 8 k steps, basic instruction processing speed (LD instruction): 0.33 μ s, built-in RAM memory capacity: 64 KB
0.011		A1SJHCPU	No. of I/O points: 256 points, no. of I/O device points: 256 points, program capacity: 8 k steps, basic instruction processing speed (LD instruction): 0.33 µs, built-in RAM memory capacity: 64 KB, 5 slots, 100 to 240 V AC input/5 V DC 3 A output power supply
CPU		A2SHCPU	No. of I/O points: 512 points, no. of I/O device points: 512 points, program capacity: 14 k steps, basic instruction processing speed (LD instruction): 0.25 μs, built-in RAM memory capacity: 64 KB
		A2USCPU	No. of I/O points: 512 points, no. of I/O device points: 8192 points, program capacity: 14 k steps, basic instruction processing speed (LD instruction): 0.2 μ s, built-in RAM memory capacity: 64 KB
		A2USHCPU-S1	No. of I/O points: 1024 points, no. of I/O device points: 8192 points, program capacity: 30 k steps, basic instruction processing speed (LD instruction): 0.09 μ s, built-in RAM memory capacity: 256 KB
		A1S38B	8 slots, power supply module mountable, for QnAS/AnS Series modules
		A1S35B	5 slots, power supply module mountable, for QnAS/AnS Series modules
	Main base	A1S33B	3 slots, power supply module mountable, for QnAS/AnS Series modules
		A1S32B	2 slots, power supply module mountable, for QnAS/AnS Series modules
		A1S58B	8 slots, power supply module unmountable, for QnAS/AnS series modules
		A1S55B	5 slots, power supply module unmountable, for QnAS/AnS series modules
	Extension base	A1S52B	2 slots, power supply module unmountable, for QnAS/AnS series modules
		A1S68B	8 slots, power supply module mountable, for QnAS/AnS Series modules
		A1S65B	5 slots, power supply module mountable, for QnAS/AnS Series modules
D		A1SC01B	For extension base horizontal connection, 0.055 m * One cable per extension base required
Base		A1SC03B	For extension base connection, 0.3 m * One cable per extension base required
		A1SC07B	For extension base connection, 0.7 m * One cable per extension base required
		A1SC12B	For extension base connection, 1.2 m * One cable per extension base required
	Extension	A1SC30B	For extension base connection, 3 m * One cable per extension base required
	cable	A1SC60B	For extension base connection, 6 m * One cable per extension base required
		A1SC05NB	For A5 B/A6 B extension base connection, 0.45 m * One cable per extension base required
		A1SC07NB	For A5□B/A6□B extension base connection, 0.7 m * One cable per extension base required
		A1SC30NB	For A5_B/A6_B extension base connection, 3 m * One cable per extension base required
		A1SC50NB	For A5_B/A6_B extension base connection, 5 m * One cable per extension base required
	Blank cover	A1SG60	Blank cover for I/O slot
Power supply		A1S61PN	Input voltage range: 100 to 240 V AC, output voltage: 5 V DC, output current: 5 A
		A1S62PN	Input voltage range: 100 to 240 V AC, output voltage: 5/24 V DC, output current: 3/0.6 A
		A1S63P	Input voltage range: 24 V DC, output voltage: 5 V DC, output current: 5 A
Battery		A6BAT	For IC-RAM memory/A7HGP CMOS back-up
		A1SNMCA-2KE	Program capacity: 2 k steps, EEPROM cassette (exclusively for A1S, A1SH, A1SJ, and A1SJH)
Memory cassette		A1SNMCA-8KE	Program capacity: 8 k steps, EEPROM cassette (exclusively for A1S, A1SH, A1SJ, and A1SJH)
		A1SNMCA-8KP	Program capacity: 8 k steps, EPROM cassette (exclusively for A1S, A1SH, A1SJ, and A1SJH)
		A2SNMCA-30KE	Program capacity: 30 k steps, EEPROM cassette (for A2S, A2SH, A2US(S1), and A2USH-S1)



AnS

Product		Туре	Outline
		A1SX40	16 points, 12/24 V DC, 3/7 mA, response time:10 ms, 16 points/common, positive common, 20-point terminal block
		A1SX40-S1	16 points, 24 V DC, 7 mA, response time: 0.2 ms, 16 points/common, positive common, 20-point terminal block, high-speed input
		A1SX40-S2	16 points, 24 V DC, 7 mA, response time: 10 ms, 16 points/common, positive common, 20-point terminal block, for high leakage current sensor
		A1SX41	32 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 32 points/common, positive common, 40-pin connector
	DC (Positive common)	A1SX41-S1	32 points, 24 V DC, 7 mA, response time: 0.3 ms, 32 points/common, positive common, 40-pin connector, high-speed input
	(i dollare common)	A1SX41-S2	32 points, 24 V DC, 7 mA, response time: 10 ms, 32 points/common, positive common, 40-pin connector, for high leakage current sensor
		A1SX42	64 points, 12/24 V DC, 2/5 mA, response time: 10 ms, 32 points/common, positive common, 40-pin connector
		A1SX42-S1	64 points, 24 V DC, 5 mA, response time: 0.3 ms, 32 points/common, positive common, 40-pin connector, high-speed input
		A1SX42-S2	64 points, 24 V DC, 5 mA response time: 10 ms, 32 points/common, positive common, 40-pin connector, for high leakage current sensor
	Dynamic input	A1S42X	16/32/48/64 points, 12/24 V DC, 4/9 mA, response time: 0.4 ms, 24-pin connector, high-speed dynamic input
	40400	A1SX10	16 points, 100 to 120 V AC, 6 mA, response time: 35 ms, 16 points/common, 20-point terminal block
Input	AC100	A1SX10EU	16 points, 100 to 120 V AC, 7 mA, response time: 35 ms, 16 points/common, 20-point terminal block, CE compliant
	AC200	A1SX20	16 points, 200 to 240 V AC, 9 mA, response time: 55 ms, 16 points/common, 20-point terminal block
		A1SX20EU	16 points, 200 to 240 V AC, 11 mA, response time: 55 ms, 16 points/common, 20-point terminal block, CE compliant
		A1SX71	32 points, 5/12/24 V DC, 1.2/3.3/7 mA, response time: 3 ms, 32 points/common, positive/negative common, 40-pin connector
		A1SX80	16 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common, positive/negative common, 20-point terminal block
		A1SX80-S1	16 points, 24 V DC, 7 mA, response time: 0.5 ms, 16 points/common, positive/negative common, 20-point terminal block, high-speed input
	DC (Positive/negative	A1SX80-S2	16 points, 24 V DC, 7 mA, response time: 10 ms, 16 points/common, positive/negative common, 20-point terminal block, for high leakage current sensor
	common)	A1SX81	32 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 32 points/common, positive/negative common, 37-pin D-sub connector
		A1SX81-S2	32 points, 24 V DC, 7 mA, response time: 10 ms, 32 points/common, positive/negative common, 37-pin D-sub connector, for high leakage current sensor
		A1SX82-S1	64 points, 24 V DC, 5 mA, response time: 0.3 ms, 32 points/common, positive/negative common, 40-pin connector, high-speed input
	AC/DC	A1SX30	16 points, 12 V DC/24 V DC/12 V AC/24 V AC, 4.2 mA (12 V DC, 12 V AC)/8.6 mA (24 V DC, 24 V AC), response time: 2.5 ms, 16 points/common, 20-point terminal block

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Product		Туре	Outline
		A1SY10	16 points, 24 V DC/240 V AC, 2 A/point, 8 A/common, response time: 12 ms, 8 points/common, 20-point terminal block
		A1SY10EU	16 points, 24 V DC/120 V AC, 2 A/point, 8 A/common, response time: 12 ms, 8 points/common, 20-point terminal block, CE compliant
	Relay	A1SY14EU	12 points, 24 V DC/240 V AC, 2 A/point, 8 A/common, response time: 12 ms, 4 points/common, 20-point terminal block, CE compliant
		A1SY18A	8 points, 24 V DC/240 V AC, 2 A/point, 8 A/module, response time: 12 ms, all points independent, 20-point terminal block
		A1SY18AEU	8 points, 24 V DC/240 V AC, 2 A/point, response time: 12 ms, all points independent, 20-point terminal block, CE compliant
	Tdo	A1SY22	16 points, 100/240 V AC, leakage at OFF: 1.5 mA (120 V AC), 3 mA (240 V AC), response time: 0.5 Hz + 1 ms, 8 points/common, 20-point terminal block, with fuse and surge suppressor
	Triac	A1SY28A	8 points, 100 to 240 V AC, leakage at OFF: 1.5 mA (120 V AC), 3 mA (240 V AC), response time: 0.5 Hz + 1 ms, all points independent, 20-point terminal block, with surge suppressor
	Dynamic output	A1S42Y	16/32/48/64 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 24-pin connector, with fuse, dynamic output
		A1SY40	16 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 8 points/common, sink type, 20-point terminal block, with fuse and surge suppressor
		A1SY41	32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 32 points/common, sink type, 40-pin connector, with fuse and surge suppressor
	Transistor (Sink)	A1SY40P	16 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 1 ms, 8 points/common, sink type, 20-point terminal block, with thermal/short-circuit protection and surge suppressor
Output		A1SY41P	32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 1 ms, 32 points/common, sink type, 40-pin connector, with thermal/short-circuit protection and surge suppressor
		A1SY42P	64 points, 2/24 V DC, leakage at OFF: 0.1 mA, response time: 1ms, 32 points/common, sink type, 40-pin connector, with thermal/short-circuit protection and surge suppressor
		A1SY50	16 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 8 points/common, sink type, 20-point terminal block, with fuse and surge suppressor
		A1SY60	16 points, 24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 8 points/common, sink type, 20-point terminal block, with fuse and surge suppressor
	Transistor (Source)	A1SY60E	16 points, 5/12/24 V DC, leakage at OFF: 0.1 mA, response time: 10 ms, 8 points/common, source type, 20-point terminal block, with fuse and surge suppressor
	Transistor	A1SY68A	8 points, 5/12/24/48 V DC, leakage at OFF: 0.1 mA, response time: 10 ms, all points independent, 20-point terminal block, with surge suppressor
	TTL CMOS	A1SY71	32 points, 5/12 V DC, response time: 1 ms, 32 points/common, sink type, 40-pin connector, with fuse
		A1SY80	16 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 8 points/common, source type, 20-point terminal block, with fuse and surge suppressor
	Transistor (Source)	A1SY81	32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 32 points/common, source type, 37-pin D-sub connector, with fuse and surge suppressor
		A1SY82	64 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 32 points/common, source type, 40-pin connector, with fuse and surge suppressor
	DC/transistor	A1SH42	Input: 32 points, 12/24 V DC, 2/5 mA, response time: 10 ms, 32 points/common; output 32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 32 points/common, with fuse and surge suppressor; 40-pin connector
	2 6/11/21/31/31/31	A1SH42-S1	Input: 32 points, 24 V DC, 5 mA, response time: 0.3 ms, 32 points/common; output 32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 32 points/common, with fuse and surge suppressor; 40-pin connector
I/O	DC/rolov	A1SX48Y18	Input: 8 points, 24 V DC, 7 mA, response time: 10 ms, 8 points/common, positive common; output 8 points, 24 V DC/240 V AC, 2 A/point, 8 A/common, response time: 12 ms, 8 points/common; 20-point terminal block
1/0	DC/relay	A1SJ-56DR	Input: 32 points, 24 V DC, 7 mA, response time: 10ms, 16 points/common, positive common; output 24 points, 24 V DC/240 V AC, 2 A/point, 5 A/common, response time: 12 ms, 8 points/common; 34-point terminal block
	DC/transistor	A1SX48Y58	Input: 8 points, 24 V DC, 7 mA, response time: 10 ms, 8 points/common, positive common; output 8 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 8 points/common, with fuse and surge suppressor; 20-point terminal block
	שלי וועווסוסנטו	A1SJ-56DT	Input: 32 points, 24 V DC, 7 mA, response time: 10ms, 16 points/common, positive common; output 24 points, 24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 8 points/common, with surge suppressor; 34-point terminal block



AnS

Pr	oduct	Туре	Outline
		A6CON1	40-pin connector, soldering type
		A6CON2	40-pin connector, crimp-contact type
		A6CON3	40-pin connector, IDC for flat cables
Connector		A6CON4	40-pin connector, soldering type (bidirectional cable connectable)
		A6CON1E	37-pin D-sub connector, soldering type
		A6CON2E	37-pin D-sub connector, crimp-contact type
		A6CON3E	37-pin D-sub connector, IDC for flat cables
		A6TBX36-E	For negative common input modules (standard type)
		A6TBX54-E	For negative common input modules (2-wire type)
		A6TBX70	For positive common input modules (3-wire type)
Connector/	terminal block	A6TBX70-E	For negative common input modules (3-wire type)
conversion	module	A6TBY36-E	For source type output modules (standard type)
		A6TBY54-E	For source type output modules (2-wire type)
		A6TBXY36	For positive common input modules and sink type output modules (standard type)
		A6TBXY54	For positive common input modules and sink type output modules (2-wire type)
		AC05TB	For A6TBXY36, A6TBXY54, A6TBX70 (for positive common / sink type); 0.5 m
		AC10TB	For A6TBXY36, A6TBXY54, A6TBX70 (for positive common / sink type); 1 m
		AC20TB	For A6TBXY36, A6TBXY54, A6TBX70 (for positive common / sink type); 2 m
		AC30TB	For A6TBXY36, A6TBXY54, A6TBX70 (for positive common / sink type); 3 m
Connector/		AC50TB	For A6TBXY36, A6TBXY54, A6TBX70 (for positive common / sink type); 5 m
terminal		AC80TB	For A6TBXY36, A6TBXY54, A6TBX70 (for positive common / sink type); 8 m *Common power supply 0.5 A or lower
block .	Cable	AC100TB	For A6TBXY36, A6TBXY54, A6TBX70 (for positive common / sink type); 10 m *Common power supply 0.5 A or lower
conversion module		AC05TB-E	For A6TBX36-E, A6TBY36-E, A6TBX54-E, A6TBY54-E, A6TBX70-E (for negative common / source type); 0.5 m
module		AC10TB-E	For A6TBX36-E, A6TBY36-E, A6TBX54-E, A6TBY54-E, A6TBX70-E (for negative common / source type); 1 m
		AC20TB-E	For A6TBX36-E, A6TBY36-E, A6TBX54-E, A6TBY54-E, A6TBX70-E (for negative common / source type); 2 m
		AC30TB-E	For A6TBX36-E, A6TBY36-E, A6TBX54-E, A6TBY54-E, A6TBX70-E (for negative common / source type); 3 m
		AC50TB-E	For A6TBX36-E, A6TBY36-E, A6TBX54-E, A6TBY54-E, A6TBX70-E (for negative common / source type); 5 m
Relay term	inal module	A6TE2-16SRN	16 points, 24 V DC/240 VAC, ZA/point, 8 A/common, response time: 12 ms, 8 points/common, 40-pin connector
,		AC06TE	For A6TE2-16SRN, 0.6 m
Relay		AC10TE	For A6TE2-16SRN, 1 m
terminal	Cable	AC30TE	For A6TE2-16SRN, 3 m
module		AC50TE	For A6TE2-16SRN, 5 m
		AC100TE	For A6TE2-16SRN, 10 m
Interrupt in	put	A1SI61	Interrupt input: 16 points, 12/24 V DC, 4/8 mA, response time: 0.2 ms, 16 points/common, 20-point terminal block
Dummy mo	odule	A1SG62	16/32/48/64-point dummy module
•		A1S-TA32	32-point IDC terminal block adapter, 0.5 mm² (AWG20)
Conversion	AnS	A1S-TA32-3	32-point IDC terminal block adapter, 0.3 mm ² (AWG22)
adapter	conversion adapter	A1S-TA32-7	32-point IDC terminal block adapter, 0.75 mm² (AWG18)
	adaptor	A1S-TB32	32-point terminal block adapter, 0.14 to 0.75 mm² (AWG26 to 18), for conversion to European type terminal block
Pulse catch		A1SP60	Input: 16 points, 24 V DC, 7 mA, response time: 1.0 ms, 16 points/common, positive/negative common, 20-point terminal block, pulse catch function (minimum input pulse width: 0.5 ms)
Analog time	er	A1ST60	No. of timer points: 8 points; timer setting ranges: 0.1 to 1.0 s, 1 to 10 s, 10 to 60 s, 60 to 600 s
Protective	cover	A1STEC-S	A1S terminal block cover short

AnS

Analog I/O module

Р	roduct	Туре	Outline
Analog	Voltage/	A1S64AD	4 channels; input: -10 to 10 V DC, -20 to 20 mA; output (resolution): -4000 to 4000, -8000 to 8000, -12000 to 12000; conversion speed: 20 ms/channel; 20-point terminal block
input	current input	A1S68AD	8 channels; input: -10 to 10 V DC, 0 to 20 mA; output (resolution): 0 to 4000, -2000 to 2000; conversion speed: 0.5 ms/channel; 20-point terminal block
		A1S62DA	2 channels; input (resolution): -4000 to 4000, 0 to 4000 / -8000 to 8000, 0 to 8000 / -12000 to 12000, 0 to 12000; output: -10 to 10 V DC, 0 to 20 mA; conversion speed: 25 ms/2 channels; 20-point terminal block
Analog output	Voltage/ current output	A1S68DAV	8 channels, input (resolution): -2000 to 2000, output: -10 to 10 V DC, conversion speed: 4 ms/8 channels, 20-point terminal block
		A1S68DAI	8 channels, input (resolution): 0 to 4000, output: 4 to 20 mA DC, conversion speed: 4 ms/8 channels, 20-point terminal block
A I I/O		A1S63ADA	Analog input: 2 channels; input: -10 to 10 V DC, -20 to 20 mA; analog output: 1 channel; output: -10 to 10 V DC, 0 to 20 mA; resolution: 1/4000, 1/8000, 1/12000; conversion speed: 3 ms/channel (at 1/12000); 20-point terminal block
Analog I/C	•	A1S66ADA	Analog input: 4 channels; analog output: 2 channels; analog I/O: -10 to 10 V DC, 0 to 20 mA; resolution: 1/4000; conversion speed: 400 μ s/4 channels (analog input), 240 μ s/2 channels (analog output); 20-point terminal block
	Platinum RTD	A1S62RD3N	2 channels, 3-wire type platinum RTD (Pt100 [JIS C1604-1997, IEC 751-am2, JIS C1604-1989, DIN 43760-1980], JPt100 [JIS C1604-1981]), conversion speed: 40 ms/channel, 20-point terminal block
Temperature input		A1S62RD4N	2 channels, 4-wire type platinum RTD (Pt100 [JIS C1604-1997, IEC 751-am2, JIS C1604-1989, DIN 43760-1980], JPt100 [JIS C1604-1981]), conversion speed: 40 ms/channel, 20-point terminal block
	Thermocouple	A1S68TD	8 channels, thermocouple (K, E, J, T, B, R, S), conversion speed: 400 ms/8 channels, 20-point terminal block
Temperatur	e control	A1S64TCTRT	Standard control: 4 channels, heating-cooling control: 2 channels; thermocouple (K, J, T, B, S, E, R, N, U, L, PLII, WSRe/W26Re), platinum RTD (Pt100, JPt100); sampling cycle: 0.5 s/4 channels (standard control), 0.5 s/2 channels, (heating-cooling control); 20-point terminal block
remperatur	e control	A1S64TCTRTBW	Standard control: 4 channels, heating-cooling control: 2 channels; thermocouple (K, J, T, B, S, E, R, N, U, L, PLII, WSRe/W26Re), platinum RTD (Pt100, JPt100); sampling cycle: 0.5 s/4 channels (standard control), 0.5 s/2 channels, (heating-cooling control); with heater disconneciton detection; 20-point terminal block



AnS

Pulse I/O and positioning module

2.00 1/0 0	and positionin	5	
Pr	roduct	Туре	Outline
		A1SD61	1 channel; 50/10 kpps; count input signal: 5/12/24 V DC; external input: 5/12/24 V DC; comparison output: transistor (open collector), 12/24 V DC, 0.1 A/point, 0.8 A/common; 20-point terminal block
		A1SD62	2 channels; 100/10 kpps; count input signal: 5/12/24 V DC; external input: 5/12/24 V DC; coincidence output: transistor (sink), 12/24 V DC, 0.5 A/point, 2 A/common; 20-point terminal block
High speed	d counter	A1SD62E	2 channels; 100/10 kpps; count input signal: 5/12/24 V DC; external input: 5/12/24 V DC; conincidence output: transistor (source), 12/24 V DC, 0.1 A/point, 0.4 A/common; 20-point terminal block
		A1SD62D	2 channels; 200/10 kpps; count input signal: RS-422-A (differential line driver); external input: 5/12/24 V DC, coincidence output: transistor (sink), 12/24 V DC, 0.5 A/point, 2 A/common; 20-point terminal block
		A1SD62D-S1	2 channels; 200/10 kpps; count input signal: RS-422-A (differential line driver); external input: RS-422-A (differential line driver); coincidence output: transistor (sink), 12/24 V DC, 0.5 A/point, 2 A/common; 20-point terminal block
Positioning	I	A1SD70	1 axis, control unit: pulse, no. of positioning data: 1 piece/axis, 15-pin connector/9-pin connector, analog voltage output (-10 to 10 V DC)
	Open	A1SD75P1-S3	1 axis; control unit: pulse, mm, inch, degree; no. of positioning data: 600 pieces/axis; max. output pulse: 400 kpps (differential driver), 200 kpps (open collector); 36-pin connector
	collector output/ Differential	A1SD75P2-S3	2 axes; 2-axis linear interpolation/ 2-axis circular interpolation; control unit: pulse, mm, inch, degree; no. of positioning data: 600 pieces/axis; max. output pulse: 400 kpps (differential driver), 200 kpps (open collector); 36-pin connector
	output	A1SD75P3-S3	3 axes; 2-axis linear interpolation/ 2-axis circular interpolation; control unit: pulse, mm, inch, degree; no. of positioning data: 600 pieces/axis; max. output pulse: 400 kpps (differential driver), 200 kpps (open collector); 36-pin connector
		A1SD75M1	1 axis; control unit: pulse, mm, inch, degree; no. of positioning data: 600 pieces/axis; 36-pin connector; SSCNET connection
	SSCNET connection	A1SD75M2	2 axes; 2-axis linear interpolation/ 2-axis circular interpolation; control unit: pulse, mm, inch, degree; no. of positioning data: 600 pieces/axis; 36-pin connector; SSCNET connection
Positioning		A1SD75M3	3 axes; 2-axis linear interpolation/ 2-axis circular interpolation; control unit: pulse, mm, inch, degree; no. of positioning data: 600 pieces/axis 36-pin connector; SSCNET connection
		AD75C20SC	Cable for connecting AD75P□/A1SD75P□ positioning module and MR-C□A, 2 m
		AD75C20SH	Cable for connecting AD75P□/A1SD75P□ positioning module and MR-H□A, 2 m
		AD75C20SJ	Cable for connecting AD75P□/A1SD75P□ positioning module and MR-J□A, 2 m
	Cable	AD75C20SJ2	Cable for connecting AD75P□/A1SD75P□ positioning module and MR-J2□A, 2 m
		AD75C20SNH	Cable for connecting AJ65BT-D75P2-S3 positioning module and MR-H□A, 2 m
		AD75C20SNJ2	Cable for connecting AJ65BT-D75P2-S3 positioning module and MR-J2/J2S, 2 m
		A1SD75-C01HA	Conversion cable for connecting A1SD75P□/M□ and peripheral devices
	Bracket	AD75CK	Cable clamp bracket for AD75, GOT
	Tooching unit	AD75TU	Handy type; positioning data writing, reading, testing, monitoring, etc; positioning data back-up (cassette I/F function)
	Teaching unit	AD71TU	Handy type; positioning data writing, reading, testing, monitoring, etc.
Position de	etection	A1S62LS	No. of position detection axes: 1, resolution: 4096×32 rotations to 409.6×320 rotations, no. of output channels: 16
nformation	n module		
		A1SJ71E71N3-T	10BASE-T
Ethernet		A1SJ71E71N-B2	10BASE2
		A1SJ71E71N-B5	10BASE5
Intelligent communication		A1SD51S	BASIC program execution module, RS-232: 2 channels, RS-422/485: 1 channel
Computer link		A1SJ71UC24-R2	RS-232: 1 channel, transmission speed: 0.3 to 19.2 kbps, computer link function
		A1SJ71UC24-R4	RS-422/485: 1 channel, transmission speed: 0.3 to 19.2 kbps, computer link function, multidrop link function
		A1SJ71UC24-PRF	RS-232: 1 channel, transmission speed: 0.3 to 19.2 kbps, computer link function, printer function
Intelligent communication		SW□IVD-AD51HP	Software package for QD51H, AD51H-S3, A1SD51S
		A1SD59J-S2	Memory card interface (A1SD59J-MIF external attachment)
-	ard interface	A1SD59J-MIF	A1SD59J-S2 dedicated memory card module
Memory card interface	Cable	AC20MIF-L	Cable for connecting A1SD59J-S2 and A1SD59J-MIF, 2 m
		A1SS91	PLC fault detection module, RUN output: 1 point, Error output: 1 point, General-purpose output: 3 points

AnS

Control network module

AISJTAS92	Pı	roduct	Туре	Outline
SIGSIstatical size A1SJZOLP55 SIGSIN PCF broadmand H-PCF optical cable, double loop, remote I/O network (remote I/O station)	CC-Link		A1SJ61BT11	Master/local station, for AnSCPU
Coaxial cable AISJ72OLR55 30.24/56/24 coaxial cable, souble loop, remote I/O network (remote I/O station)	AS-i		A1SJ71AS92	AS-i system master module
MELSEC SIGS optical cable AISJ72QBR15 SIGSHVPCPN consolar cables, single bus, remote IVO network (remote IVO network (control/normal station)/remote IVO network (remote incompleted in protection of the		SI/QSI optical cable	A1SJ72QLP25	SI/QSI/H-PCF/broadband H-PCF optical cable, double loop, remote I/O network (remote I/O station)
ATSJ72OBRT5 S02-WSC-2V coaxial cable, single bus, remote I/O network (remote I/O station)		0 11	A1SJ72QLR25	3C-2V/5C-2V coaxial cable, double loop, remote I/O network (remote I/O station)
MELSECNET(II) A1SJ71R21 3C-2V/5C-2V coaxial cable, double loop, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station) A1SJ71R21 3C-2V/5C-2V coaxial cable, double loop, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station) A1SJ71R21 3C-2V/5C-2V coaxial cable, double loop, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station) A1SJ71AP21 3S-200250 optical cable, double loop, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station) A6BSW-P-S3 A6BSW-P-S3 A6BSW-P-S3 A6BSW-P-S3 Main station side (IN-OUT): SI optical cable, opposite station side (I		Coaxiai cable	A1SJ72QBR15	3C-2V/5C-2V coaxial cable, single bus, remote I/O network (remote I/O station)
NET/10 Caxial cable	MELSEC		A1S.I71I P21	
ASS_VIFE21 ASS_VIFE24 ASS_VIFE24 ASS_VIFE24 Coaxial cable, double loop, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station)		optical cable	7,100712121	network (remote master station)
A1SJ71BR11 A1SJ71AR21 A1SJ71AR21B A1SJ71AR2B A1SJ71		Casvial ashla	A1SJ71LR21	
A1SJ71AR21 3C-2V/SC-2V coaxial cable, double, loop MELSECNET(II) master/local station A6BSW-P-S3 Main station side (IN/OUT): SI optical cable, opposite station side IN-CI optical cable, copposite station bypass, station to station extension. A6BSW-P-S4 Main station side (IN/OUT): SI optical cable, opposite station in station extension, cable conversion of control of the station s		Coaxiai cable	A1SJ71BR11	
Af SJY1AR21 A6BSW-P-S3 A6BSW-P-S3 A6BSW-P-S4 A6BSW-P-S4 A6BSW-P-S5 A6BSW-P-S5 A6BSW-P-S5 A6BSW-P-S6 NET (II) A6BSW-P-S6 Net (II) A6BSW-P-S6 Net (III) A6BSW-P-S6 Net (III) A6BSW-P-S6 A6BSW-P-S6 Net (III) A6BSW-P-S6 A6BSW-P-S6 A6BSW-P-S6 A6BSW-P-S6 Net (III) A6BSW-P-S6 A6BSW-P-S6 A6BSW-P-S6 A6BSW-P-S6 A6BSW-P-S6 A6BSW-P-S6 A6BSW-P-S6 A6BSW-P-S6 A6BSW-P-S7 A6BSW-P-S6 A6BSW-P-S7 A6BSW-P-S6 A6BSW-P-S6 A6BSW-P-S6 A6BSW-P-S6 A6BSW-P-S6 A6BSW-P-S6 A6BSW-P-S7 A6BSW-P-S6 A6BSW-P-S6 A6BSW-P-S6 A6BSW-P-S7 A6BSW-P-S7 A6BSW-P-S6 A6BSW-P-S6 A6BSW-P-S7 A6BSW-P-S7 A6BSW-P-S6 A6BSW-P-S6 A6BSW-P-S6 A6BSW-P-S6 A6BSW-P-S6 A6BSW-P-S6 A6BSW-P-S6 A6BSW-P	MELOFON	IET(II)	A1SJ71AP21	SI-200/250 optical cable, double loop, MELSECNET(II) master/local station
Melser Abes Main station side (IN/OUT): SI optical cable, opposite station side IN: GI optical cable, opposite station side IN: OUT): GI optical cable, opposite station side (IN: OUT): GI optical cable, station station extension, st	MELSECN	IEI(II)	A1SJ71AR21	3C-2V/5C-2V coaxial cable, double, loop MELSECNET(II) master/local station
ABSW-P-S4 Si optical cable, for optical data link faulty station bypass, station to station extension, cable conversion			A6BSW-P-S3	
MELSEC NET/III) Programming module A6BW P-S5 Main station side (IN/OUT): SI optical cable, opposite station side conversion Optical data link faulty station bypass, station to station extension, cable conversion			A6BSW-P-S4	
A6BSW-P-S6 Main station side (IN/CUT): GI optical cable, opposite station side (IN/CUT): GI optical cable, for optical data link faulty station bypass, station to station extension A6BSW-P-S7 Main station side (IN/CUT): GI optical cable, opposite station side (IN/CUT): SI optical cable, for optical data link faulty station bypass, station to station extension, cable conversion Coxial tap A6BSW-R Coxial data link faulty station bypass, station to station extension, cable conversion MELSECNET/B A1SJ/17121B Twisted pair cable, single bus, MELSECNET/B (masterflocal station) MELSECNET/BININI-S3 A1SJ/171732-S3*1 Optical/twisted pair cable, single bus, MELSECNET/B (remote I/O station) MELSECNET/MINI-S3 A1SJ/171732-S3*1 Optical/twisted pair cable exaster module MELSECNET/MINI-S3 A1SJ/171862-S3 Transmission signal device B/NET interface module for power distribution controller Peripheral devices ROM writer module A6WU P-ROM writer device mounted on machine CPU PROM writer module A6WU P-ROM writer device mounted on machine CPU Cable AC030WU Cable for connecting A6WU and A6PHP/A6HGP, 0.3 m module PROM write adapter A6WA-28P Write adapter for EPROM 28-pin Programming module A6WU A0AGNA-28P Write adapter for EPROM 28-pin Programming module A6WU Program input device connected to CPU, for ACPU Ana And Anul have a device range equivalent to A3H only. A7PUS Program input device connected to CPU, for ACPU Ana And Anul have a device range equivalent to A3H only. A8PUL Program input device connected to CPU, for ACPU, exclusively for handheld connection A8PUP Program input device connected to CPU, for ACPU, exclusively for handheld connection A8PUP Program input device connected to CPU, for ACPU, exclusively for handheld connection A8PUP Program input device connected to CPU, for ACPU		bypass	A6BSW-P-S5	
AGSW-P-S/ for optical data link faulty station bypass, station to station extension, cable conversion	NEI(II)	SWITCH	A6BSW-P-S6	
MELSECNET/B A1SJ71AT21B A1SJ72T25B Twisted pair cable, single bus, MELSECNET/B (master/local station) MELSECNET/MINI-S3 A1SJ71PT32-S3*1 Optical/wisted pair cable, single bus, MELSECNET/B (remote I/O station) MELSECNET/MINI-S3 A1SJ71PT32-S3*1 Optical/wisted pair cable master module MESSDEMINIS Transmission converter AJ35PTC-CNV*1 Twisted pair/cab-tire cable converter (bidirectional conversion), for MELSECNET/MINI, A2C MELSEC-I/O Link A1SJ51T64 Twisted pair/cab-tire cable, single bus, MELSEC-I/O Link (master module) B/NET A1SJ71B62-S3 Transmission signal device B/NET interface module for power distribution controller Peripheral devices ROM writer module A6WU P-ROM writer device mounted on machine CPU ROM writer module A6WU Cable for connecting A6WU and A6PHP/A6HGP, 0.3 m module Programing module AC300R4 Cable for connecting CPU and A7HGP/A6GPP, 30 m Intelligent GPP Cable AC30N2A Cable for connecting CPU and A7HGP/A6GPP, 30 m Intelligent GPP A7PU Program input device connected to CPU, for ACPU "AnA and ANU have a device range equivalent to A3H only. A7PUS Program input device connected to CPU, for ACPU "AnSCPU can be mounted with screws only. A8PUL Program input device connected to CPU, for ACPU, exclusively for handheld connection A8PUL Program input device connected to CPU, for ACPU, exclusively for handheld connection A8PUL AC20R4-A8PU Cable for connecting CPU and A8UPU/A8PUJ "A8PUJ provided AC20R4-EX AC30R4 Cable for connecting CPU and A8UPU/A7PUS Soft case A8PU-BG Soft case A8PU-BG Soft case for A8PU-B A6TEL Interface module to connect peripheral devices to the telephone line Interface module to connect peripheral devices to the telephone line			A6BSW-P-S7	
MELSECNET/MINI-S3 A1SJ72T25B Twisted pair cable, single bus, MELSECNET/B (remote I/O station) MELSECHINNS Transmission converter A3SDFTC-CNV*1 Twisted pair cable/plastic fiber cable converter (bidirectional conversion), for MELSECNET/MINI, A2C MELSEC-I/O Link A1SJ51T64 Transmission signal device B/NET interface module for power distribution controller Peripheral devices ROM writer module ROM writer module ROM writer module PROM write adapter Matsupper module ROM writer module AGWU P-ROM writer device mounted on machine CPU ROM writer module AGWU AGWU Cable for connecting CPU and AFIGE/ROGPP, 30 m ROM writer module ROM writer device writer ROM		Coxial tap	A6BSW-R	Coaxial data link faulty station bypass, slave station extendable, master station redundancy operation switching
MELSECNET/MINI-S3 A1SJ72125B Twisted pair cable, single bus, MELSECNET/B (remote I/O station) MELSECNET/MINI-S3 A1SJ71P32-S3*1 Optical/twisted pair cable master module MELSEC-I/O Link A1SJ51T64 Twisted pair/cable/plastic fiber cable converter (bidirectional conversion), for MELSECNET/MINI, A2C MELSEC-I/O Link A1SJ51T64 Twisted pair/cable/plastic fiber cable converter (bidirectional conversion), for MELSECNET/MINI, A2C MELSEC-I/O Link A1SJ51T64 Transmission signal device B/NET interface module for power distribution controller Peripheral devices ROM writer module ROM writer devices ROM writer devices ROM writer module ROM writer adapter ROM write adapter for EPROM 28-pin Rodule ROM write adapter ROM	MELSECN	IET/D	A1SJ71AT21B	Twisted pair cable, single bus, MELSECNET/B (master/local station)
MELSECE-I/O Link A1SJ51T64 Twisted pair cable/plastic fiber cable converter (bidirectional conversion), for MELSECNET/MINI, A2C	WILLSLOW	IL 1/D	A1SJ72T25B	Twisted pair cable, single bus, MELSECNET/B (remote I/O station)
MELSEC-I/O Link A1SJ51T64 Twisted pair/cab-tire cable, single bus, MELSEC-I/O Link (master module) B/NET A1SJ71B62-S3 Transmission signal device B/NET interface module for power distribution controller Peripheral devices ROM writer module A6WU P-ROM writer device mounted on machine CPU ROM writer module AC30WU Cable for connecting A6WU and A6PHP/A6HGP, 0.3 m EPROM write adapter for EPROM 28-pin Programing module AC300R4 Cable for connecting Peripheral devices and A/QnA Series CPU A7PU Program input device connected to CPU, for ACPU "AnA and AnU have a device range equivalent to A3H only. A7PUS Program input device connected to CPU, for ACPU "AnSCPU can be mounted with screws only. A8PUE Program input device connected to CPU, for ACPU, English display Program input device connected to CPU, for ACPU, exclusively for handheld connection A8UPU Program input device connected to CPU, for ACPU, exclusively for handheld connection A8UPU Program input device connected to CPU, for ACPU, exclusively for handheld connection A8UPU Program input device connected to CPU, for ACPU, exclusively for handheld connection A8UPU Program input device connected to CPU, for ACPU, exclusively for handheld connection A8UPU Program input device connected to CPU, for ACPU AC20R4-A8PU Cable for connecting CPU and A8UPU/A8PUJ "A8PUJ provided AC30R4-EX GPP cable for panel front relay, 2 m AC30R4-PUS Cable for connecting CPU and A7PU/A7HGP/A6GPP, 3 m "A7HGP-SET/A6GPP-SET provided AC30R4-PUS Cable for connecting CPU and A8UPU/A7PUS Soft case A8PU-BG Soft case for A8PU, A8UPU Modem interface module A6TEL Interface module to connect peripheral devices to the telephone line Interface module to connect peripheral devices to the telephone line	MELSECN	IET/MINI-S3	A1SJ71PT32-S3*1	Optical/twisted pair cable master module
B/NET A1SJ71B62-S3 Transmission signal device B/NET interface module for power distribution controller Peripheral devices ROM writer module A6WU P-ROM writer device mounted on machine CPU ROM writer module EPROM write adapter A6WA-28P Write adapter for EPROM 28-pin Programming module Cable AC300R4 Cable for connecting CPU and A7HGP/A6GPP, 30 m Intelligent GPP Cable AC30N2A Cable for connecting peripheral devices and A/QnA Series CPU A7PU Program input device connected to CPU, for ACPU "AnA and AnU have a device range equivalent to A3H only. A7PUS Program input device connected to CPU, for ACPU "AnSCPU can be mounted with screws only. A8PUB Program input device connected to CPU, for ACPU, English display A8PUB Program input device connected to CPU, for ACPU, exclusively for handheld connection A8UPU Program input device connected to CPU, for ACPU, exclusively for handheld connection A8UPU Program input device connected to CPU, for ACPU AC20R4-ASPU Cable for connecting CPU and A8UPU/A8PUJ "A8PUJ provided AC30R4-BCACACR4-ASPU Cable for panel front relay, 2 m AC30R4-BCACACR4-ASPU Cable for connecting CPU and A8UPU/A7PUS Soft case A8PU-BG Soft case for A8PU, A8UPU Modern interface module Modern interface module Modern interface module Interface module to connect peripheral devices to the telephone line Interface module to connect peripheral devices to the telephone line	MELSECNET/MINI-S3	Transmission converter	AJ35PTC-CNV*1	Twisted pair cable/plastic fiber cable converter (bidirectional conversion), for MELSECNET/MINI, A2C
Peripheral devices ROM writer module AC20NA Service mounted on machine CPU Roll and ACPH/AGENP, 30 m	MELSEC-I	/O Link	A1SJ51T64	Twisted pair/cab-tire cable, single bus, MELSEC-I/O Link (master module)
ROM writer module ROM writer module ROM writer cable ACO3WU Cable for connecting A6WU and A6PHP/A6HGP, 0.3 m Write adapter for EPROM 28-pin Programming module Intelligent GPP Programming module Programming module Programming module Programming module ROM writer cable AC300R4 Cable for connecting CPU and A7HGP/A6GPP, 30 m Cable for connecting peripheral devices and A/QnA Series CPU A7PU A7PU Program input device connected to CPU, for ACPU "AnA and AnU have a device range equivalent to A3H only. A7PUS Program input device connected to CPU, for ACPU "AnSCPU can be mounted with screws only. A8PUE Program input device connected to CPU, for ACPU, exclusively for handheld connection A8UPU Program input device connected to CPU, for ACPU, exclusively for handheld connection A8UPU Program input device connected to CPU, for ACPU Cable for connecting CPU and A8UPU/A8PUJ "A8PUJ provided AC20R4-A8PU Cable for connecting CPU and A8UPU/A8PUJ "A8PUJ provided AC30R4 Cable for connecting CPU and A7PU/A7HGP/A6GPP, 3 m "A7HGP-SET/A6GPP-SET provided AC30R4 Cable for connecting CPU and A8UPU/A7PUS Soft case A8PU-BG Soft case for A8PU, A8UPU Interface module to connect peripheral devices to the telephone line Interface module to connect peripheral devices to the telephone line	B/NET		A1SJ71B62-S3	Transmission signal device B/NET interface module for power distribution controller
ROM writer module EPROM write adapter ROM writer module EPROM write adapter ROM writer ROM writer adapter ROM writer adapter ROM writer adapter ROM writer adapter ROM writer ROM writer adapter ROM writer ROM writer adapter ROM writer ROM ACONA ROM ACONA ROP Writer ROM ACPU *AnA and AnU have a device range equivalent to A3H only. ROP Writer ROM ROPU *AnA ENU *Ana And Anu have a device range equivalent to A3H only. ROP Writer ROM ROM ROPU *Ana And Anu have a device range equivalent to A3H only. ROP Writer ROM ROM ROM ROM ROPU *Ana And Anu have a device range equivalent to A3H only. ROP Writer ROM ROM ROM ROPU *Ana And Anu have a device range equivalent to A3H only. ROP Writer ROM ROPU *Ana And Anu have a device range equivalent to A3H only. ROP Writer ROM ROPU *Ana And Anu have a device range equivalent to A3H only. ROP Writer ROP Writer ROM ROPU *Ana And Anu have a device range equivalent to A3H only. ROP Writer ROP	Peripheral	devices		
ROM writer module	ROM write	r module	A6WU	P-ROM writer device mounted on machine CPU
Programming module EPROM write adapter A6WA-28P Write adapter for EPROM 28-pin			AC03WU	Cable for connecting A6WU and A6PHP/A6HGP, 0.3 m
Programming module Program input device connected to CPU, for ACPU, exclusively for handheld connection Programming module Programming module Programming module Program input device connected to CPU, for ACPU, exclusively for handheld connection Programming module Program input device connected to CPU, for ACPU Program input device connected to CPU, for ACPU, exclusively for handheld connection Programming module Programming module Program input device connected to CPU, for ACPU, exclusively for handheld connection Programming module Programming m		EPROM write adapter	A6WA-28P	Write adapter for EPROM 28-pin
Programming module Programming module Programming module Programming module Programming module Programming module A7PU A7PUS Program input device connected to CPU, for ACPU *AnA and AnU have a device range equivalent to A3H only. Program input device connected to CPU, for ACPU *CPU, English display A8PUJ Program input device connected to CPU, for ACPU, English display Program input device connected to CPU, for ACPU, exclusively for handheld connection A8UPU Program input device connected to CPU, for ACPU Cable for connecting CPU and A8UPU/A8PUJ *A8PUJ provided AC20R4-EX GPP cable for panel front relay, 2 m AC30R4 Cable for connecting CPU and A7PU/A7HGP/A6GPP, 3 m *A7HGP-SET/A6GPP-SET provided AC30R4-PUS Cable for connecting CPU and A8UPU/A7PUS Soft case A8PU-BG Soft case for A8PU, A8UPU Interface module to connect peripheral devices to the telephone line Interface module to connect peripheral devices to the telephone line	Programming module		AC300R4	Cable for connecting CPU and A7HGP/A6GPP, 30 m
Programming module Programming module Programming module Programming module Programming module Programming module A7PU A7PUS Program input device connected to CPU, for ACPU *AnA and AnU have a device range equivalent to A3H only. Program input device connected to CPU, for ACPU *CPU, English display A8PUJ Program input device connected to CPU, for ACPU, English display Program input device connected to CPU, for ACPU, exclusively for handheld connection A8UPU Program input device connected to CPU, for ACPU Cable for connecting CPU and A8UPU/A8PUJ *A8PUJ provided AC20R4-EX GPP cable for panel front relay, 2 m AC30R4 Cable for connecting CPU and A7PU/A7HGP/A6GPP, 3 m *A7HGP-SET/A6GPP-SET provided AC30R4-PUS Cable for connecting CPU and A8UPU/A7PUS Soft case A8PU-BG Soft case for A8PU, A8UPU Interface module to connect peripheral devices to the telephone line Interface module to connect peripheral devices to the telephone line	Intelligent GPP	Cable	AC30N2A	Cable for connecting peripheral devices and A/QnA Series CPU
Programming module A7PUS Program input device connected to CPU, for ACPU *AnSCPU can be mounted with screws only. A8PUE Program input device connected to CPU, for ACPU, English display A8PUJ Program input device connected to CPU, for ACPU, exclusively for handheld connection A8UPU Program input device connected to CPU, for ACPU AC20R4-A8PU Cable for connecting CPU and A8UPU/A8PUJ *A8PUJ provided AC20R4-EX GPP cable for panel front relay, 2 m AC30R4 Cable for connecting CPU and A7PU/A7HGP/A6GPP, 3 m *A7HGP-SET/A6GPP-SET provided AC30R4-PUS Cable for connecting CPU and A8UPU/A7PUS Soft case A8PU-BG Soft case for A8PU, A8UPU Modem interface module A6TEL Interface module to connect peripheral devices to the telephone line Interface module to connect peripheral devices to the telephone line				
A8PUJ Program input device connected to CPU, for ACPU, exclusively for handheld connection A8UPU Program input device connected to CPU, for ACPU AC20R4-A8PU Cable for connecting CPU and A8UPU/A8PUJ *A8PUJ provided AC20R4-EX GPP cable for panel front relay, 2 m AC30R4 Cable for connecting CPU and A7PU/A7HGP/A6GPP, 3 m *A7HGP-SET/A6GPP-SET provided AC30R4-PUS Cable for connecting CPU and A8UPU/A7PUS Soft case A8PU-BG Soft case for A8PU, A8UPU Modem interface module A6TEL Interface module to connect peripheral devices to the telephone line Interface module to connect peripheral devices to the telephone line			A7PUS	Program input device connected to CPU, for ACPU *AnSCPU can be mounted with screws only.
A8PUJ Program input device connected to CPU, for ACPU, exclusively for handheld connection A8UPU Program input device connected to CPU, for ACPU AC20R4-A8PU Cable for connecting CPU and A8UPU/A8PUJ *A8PUJ provided AC20R4-EX GPP cable for panel front relay, 2 m AC30R4 Cable for connecting CPU and A7PU/A7HGP/A6GPP, 3 m *A7HGP-SET/A6GPP-SET provided AC30R4-PUS Cable for connecting CPU and A8UPU/A7PUS Soft case A8PU-BG Soft case for A8PU, A8UPU Modem interface module A6TEL Interface module to connect peripheral devices to the telephone line Interface module to connect peripheral devices to the telephone line	Programm	ina module	A8PUE	Program input device connected to CPU, for ACPU, English display
Programming module Cable Cab	3	3		
Programming module Cable Cable for connecting CPU and A8UPU/A8PUJ *A8PUJ provided AC20R4-EX GPP cable for panel front relay, 2 m AC30R4 Cable for connecting CPU and A7PU/A7HGP/A6GPP, 3 m *A7HGP-SET/A6GPP-SET provided AC30R4-PUS Cable for connecting CPU and A8UPU/A7PUS Soft case A8PU-BG Soft case for A8PU, A8UPU Modem interface module A6TEL Interface module to connect peripheral devices to the telephone line Interface module to connect peripheral devices to the telephone line				
Programming module Cable AC20R4-EX GPP cable for panel front relay, 2 m Cable for connecting CPU and A7PU/A7HGP/A6GPP, 3 m *A7HGP-SET/A6GPP-SET provided AC30R4-PUS Cable for connecting CPU and A8UPU/A7PUS Soft case A8PU-BG Soft case for A8PU, A8UPU Interface module to connect peripheral devices to the telephone line Q6TEL Interface module to connect peripheral devices to the telephone line			AC20R4-A8PU	
Programming module AC30R4 Cable for connecting CPU and A7PU/A7HGP/A6GPP, 3 m *A7HGP-SET/A6GPP-SET provided AC30R4-PUS Cable for connecting CPU and A8UPU/A7PUS Soft case A8PU-BG Soft case for A8PU, A8UPU Modem interface module AGTEL Interface module to connect peripheral devices to the telephone line Q6TEL Interface module to connect peripheral devices to the telephone line				
AC30R4-PUS Cable for connecting CPU and A8UPU/A7PUS Soft case A8PU-BG Soft case for A8PU, A8UPU Modem interface module A6TEL Interface module to connect peripheral devices to the telephone line Q6TEL Interface module to connect peripheral devices to the telephone line		Cable		Cable for connecting CPU and A7PU/A7HGP/A6GPP, 3 m *A7HGP-SET/A6GPP-SET provided
Soft case A8PU-BG Soft case for A8PU, A8UPU Modem interface module A6TEL Interface module to connect peripheral devices to the telephone line Q6TEL Interface module to connect peripheral devices to the telephone line	module			
Modern interface module A6TEL Interface module to connect peripheral devices to the telephone line Q6TEL Interface module to connect peripheral devices to the telephone line		Soft case		
Modem interface module Q6TEL Interface module to connect peripheral devices to the telephone line				
	Modem int	erface module		
	External di	splay		

^{*1} Orders will be accepted until the end of August, 2008. The production will be discontinued at the end of September, 2008. Please refer to the Technical Bulletin No. T99-0070 for details.



A0J2H

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CPU, base, power supply

	<u> </u>	,	
		A0J2HCPU	No. of I/O points: 480 points, no. of I/O device points: 480 points, program capacity: 8 k steps, basic instruction processing speed (LD instruction):1.25 μ s, RAM memory capacity: 32 KB, built-in power supply
ODLI		A0J2HCPUP21	No. of I/O points: 480 points, no. of I/O device points: 480 points, program capacity: 8 k steps, basic instruction processing speed (LD instruction):1.25 µs, RAM memory capacity: 32 KB, built-in power supply, with optical data link function
CPU		A0J2HCPUR21	No. of I/O points: 480 points, no. of I/O device points: 480 points, program capacity: 8 k steps, basic instruction processing speed (LD instruction):1.25 µs, RAM memory capacity: 32 KB, built-in power supply, with coaxial data link function
		A0J2HCPU-DC24V	No. of I/O points: 480 points, no. of I/O device points: 480 points, program capacity: 8k steps, basic instruction processing speed (LD instruction):1.25 µs, RAM memory capacity: 32 KB, built-in power supply (for 24 V DC)
		A0J2-C01	Cable for module-to-module mounting, 80 mm, supplied for I/O modules
		A0J2-C03	Cable for side-to-side installation, 300 mm
		A0J2-C03F	Cable for A0J2, 56-point I/O module (double mounting)
Dana	Connection	A0J2-C06	Cable for top-to-bottom installation, 550 mm
Base	cables	A0J2-C10	Extension cable, 1,000 mm
		A0J2-C20	Extension cable, 2,000 mm
		A0J2-C04B	Connection cable for A65B, A68B, A55B, A58B; 400 mm
		A0J2-C10B	Connection cable for A65B, A68B, A55B, A58B; 1,000 mm
Power supply		A0J2PW	Input voltage range: 100 to 240 V AC / 200 to 240 V AC, output voltage: 5/2 V DC, output current: 2.3/1.5 A
Mamani	DAM/DOM	4KROM	ROM capacity: 8 KB (max. 3 k steps)
Memory IC	RAM/ROM	8KROM	ROM capacity: 16 KB (max. 6 k steps)
10		16KROM	ROM capacity: 32 KB (max. 8 k steps)

	AC	A0J2-E32A	32 points, 100 to 120 V AC,10 mA, response time: 35 ms, 16 points/common, 36-point terminal block
Input	DC (Positive common)	A0J2-E32D	32 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common, positive common, 36-point terminal block
	Relay	A0J2-E32B	24 points, 24 V DC/240 V AC, 2 A/point, 5 A/common, response time: 12 ms, 8 points/common, 36-point terminal block
Output	Triac	A0J2-E24S	24 points; 100/240 V AC; leakage at OFF: 1.5 mA (120 V AC), 3.0 mA (240 V AC); response time: 0.5 Hz + 1 ms; 36-point terminal block; with fuse and surge suppressor
	Transistor (Sink)	A0J2-E24T	24 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 8 points/common, 36-point terminal block, with surge suppressor
	DO (I	A0J2-E28DR	Input: 16 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common, positive common Output: 12 points, 24 V DC/240 V AC, 2 A/point, 5 A/common, response time: 12 ms, 8 points/common, 3 points/common independent contact. 36-point terminal block
	DC/relay	A0J2-E56DR	Input: 32 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common, positive common Output: 24 points, 24 V DC/240 V AC, 2 A/point, 5 A/common, response time: 12 ms, 8 points/common 36-point terminal block
	50"	A0J2-E28DT	Input: 16 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common, positive common Output: 12 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 8 points/common, 4 points/common, with surge suppressor. 36-point terminal block
	DC/transistor	A0J2-E56DT	Input: 32 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common, positive common, Output: 24 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms 8 points/common, with surge suppressor, 36-point terminal block
		A0J2-E28AR	Input: 16 points, 100 to 120 V AC, 10 mA, response time: 35 ms, 16 points/common Output: 12 points, 24 V DC/240 V AC, 2 A/point, 5 A/common, response time: 12 ms, 8 points/common, 3 points/common, independent contact. 36-point terminal block
I/O	AC/relay	A0J2-E56AR	Input: 32 points, 100 to 120 V AC, 10 mA, response time: 35 ms, 16 points/common, Output: 24 points, 24 V DC/240 V AC, 2 A/point, 5 A/common, response time: 12 ms, 8 points/common 36-point terminal block
	10.7	A0J2-E28AS	Input: 16 points, 100 to 240 V AC, 10 mA, response time: 35 ms, 16 points/common Output: 12 points, 100 to 120 V AC, leakage at OFF: 3 mA, response time: 0.5 Hz+1ms, 8 points/common, 4 points/common, with fuse and surge suppressor. 36-point terminal block
	AC/Triac	A0J2-E56AS	Input: 32 points, 100 to 120 V AC, 10 mA, response time: 35 ms Output: 24 points, 100 to 240 V AC, leakage at OFF: 3 mA, response time: 0.5 Hz+1 ms, 8 points/common, with fuse and surge suppressor. 36-point terminal block
	DO/Tribe	A0J2-E28DS	Input: 16 points, 12/24 V DC, 3/7 mÅ, response time: 10 ms, 16 points/common, positive common Output: 12 points, 100 to 240 V AC, leakage at OFF: 3 mA, response time: 0.5 Hz+1 ms, 8 points/common, 4 points/common, with fuse and surge suppressor. 36-point terminal block
	DC/ Triac	A0J2-E56DS	Input: 32 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common Output: 24 points, 100 to 240 V AC, leakage at OFF: 3 mA, response time: 0.5 Hz+1 ms, with fuse and surge suppressor. 36-point terminal block
0: 1 1:		A0J2-SW16	16-point simulation switch for A0J2
Simulation	switch	A0J2-SW32	32-point simulation switch for A0J2
2-level sta	cking bracket	A0J2-2F	For 56-point module double mounting

A0J2H

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Analog I/O module

Product		Туре	Outline
Analog input	Voltage/current input	A0J2-68AD	8 channels; input: -10 to 10 V DC, 4 to 20 mA; output (resolution): -2000 to 2000; conversion speed: 2.5 ms/channel; 36-point terminal block
Analog output	Voltage/current output	A0J2-62DA	2 channels; input (resolution): -1000 to 1000, -2000 to 2000; output: -10 to 10 V DC, 4 to 20 mA, conversion speed: 16 ms/2 channels, 36-point terminal block
Pulse I/O	and positioning	g module	
High speed counter		A0J2-D61S1	2 channels; 10/7 kpps; count input signal: 5/12/24 V DC, 2 to 5 mA; external input: 5/12/24 V DC; external output: transistor (open collector), 12/24 V DC, 0.5 A; 36-point terminal block
Positioning	J	A0J2D71	2 axes; 2-axis linear interpolation; control unit: mm, inch, degree, pulse; no. of positioning data: 400 pieces/axis, 20-pin connector; pulse train input
nformatio	n module		
PLC fault	detection	A0J2-S91	PLC fault detection module, RUN output: 1 point, Error output: 1 point, general-purpose output: 3 points
Comupter link/ multidrop link		A0J2-C214-S1	RS-232C: 1 channel, RS-422: 1 channel, transmission speed: 0.3 to 19.2 kbps, multidrop function (master/local station)
A0J2 multidrop link A0J2		A0J2C25	RS-422: 1 channel, transmission speed: 19.2 to 38.4 kbps Links to AJ71C22-S1 and A0J2-C214-S1, connects A0J2 I/O modules
Control ne	twork module		
MELSECA	ICT	A0J2P25	SI-200/250 optical cable, double loop, remote station
MELSECNET		A0J2R25	3C-2V/5C-2V coaxial cable, double loop, remote station

MELSECNET	A0J2P25	SI-200/250 optical cable, double loop, remote station
WELSEGNET	A0J2R25	3C-2V/5C-2V coaxial cable, double loop, remote station



A2C

Orders will be accepted until the end of August 2008. The production will be discontinued at the end of September, 2008. Please refer to the Technical Bulletin No. T99-0070 for details.

I/O module

F	Product	Туре	Outline
	AC	AX11C	32 points, 100 to 120 V AC, 6 mA, response time: 30 ms, 16 points/common, 50-point terminal block
	AC	AX21C	32 points, 200 to 240 V AC, 5 mA, response time: 55 ms, 16 points/common, 50-point terminal block
	DC (Positive common)	AX41C	32 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common, positive common, 50-point terminal block
Input	DC (Positive/negative common)	AX81C	32 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common, positive/negative common, 50-point terminal block
	AC/DC	AX31C	32 points, 12 V DC/24 V DC/12 V AC/24 V AC, 4 mA (12 V DC/12 V AC), 8.5 mA (24 V DC/24 V AC) response time: 30 ms (12/24 V DC)/35 ms (12/24 V AC), 16 points/common, 50-point terminal block
	Dalan	AY13C	32 points, 24 V DC/240 V AC, 2 A/point, 4 A/common, leakage at OFF: 0 mA, response time: 12 ms, 8 points/common, 50-point terminal block
	Relay	AY15CEU	24 points, 24 V DC/240 V AC, 2 A/point, 4 A/common, leakage at OFF: 0 mA, response time: 12 ms, 8 points/common, 4 points/common, 50-point terminal block, CE compliant
0.1.1	Triac	AY23C	32 points, 100/240 V AC, leakage at OFF: 1.5 mA (120 V AC), 3 mA (240 V AC), response time: 0.5 Hz + 1 ms, 8 points/common, 50-point terminal block, with surge suppressor
Output	Transistor (Sink)	AY51C	32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 32 points/common, sink type, 50-point terminal block, with surge suppressor
	Transistor	AY61CE	32 points, 5/12/24 V DC, leakage at OFF: 0.1 mA, response time: 10 ms, 8 points/common, source type, 50-point terminal block, with surge suppressor
	(Source)	AY81C	32 points, 24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 32 points/common, source type, 50-point terminal block, with surge suppressor
		AX40Y50C	Input: 16 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common, positive common Output: 16 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 16 points/common, sink type, with surge suppressor, 50-point terminal block
	DC/transistor	AX80Y80C	Input: 16 points, 12/24 V DC 3/7 mA, response time: 10 ms, 16 points/common, positive/negative common Output: 16 points, 24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 16 points/common, source type, with surge suppressor. 50-point terminal block
	AC/relay	AX10Y10C	Input: 16 points, 100 to 120 V AC, 6 mA, response time: 30 ms, 16 points/common Output 16 points 24 V DC/240 V AC, 2 A/point, 4 A/common, response time: 12 ms, 8 points/common, 50-point terminal block
I/O	AC/triac	AX10Y22C	Input: 16 points, 100 to 120 V AC, 6 mA, response time: 30 ms, 16 points/common Output: 16 points, 100 to 240 V AC, leakage at OFF: 1.5 mA (120 V AC), 3.0 mA (240 V AC), response time: 0.5 Hz+1 ms, 8 points/common, with surge suppressor, 50-point terminal block
		AX40Y10C	Input: 16 points, 12/24 V AC, 3/7 mA, response time: 10 ms, 16 points/common, positive common Output: 16 points, 24 V DC/240 V AC, 2 A/point, 4 A/common, response time: 12 ms, 8 points/common, 50-point terminal block
	DC/relay	AX80Y10C	Input: 16 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common, positive/negative common Output: 16 points, 24 V DC/240 V AC, 2 A/point, 4 A/common, response time: 12 ms, 8 points/common, 50-point terminal block
		AX80Y14CEU	Input: 16 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common, positive/negative common Output: 12 points, 24 V DC/240 V AC, 2 A/point, 5 A/common, response time: 12 ms, 8 points/common, 4 points/common, 50-point terminal block
Cable		A2C-C005	Connection cable for A2C I/O modules, 50 mm *10 pcs/pkg
Cable		A2C-C007	Connection cable for A2C I/O modules, 70 mm *10 pcs/pkg

Analog I/O module

Analog input	Voltage/ current input	A68ADC	8 channels; input: -10 to 10 V DC, 4 to 20 mA DC; output (resolution): -1000 to 1000, -2000 to 2000; conversion speed: 2.5 ms/channel; 47-point terminal block
Analog output	Voltage output	A64DAVC	4 channels; input (resolution): 0 to 4000, 0 to 8000, 0 to 12000; output: 0 to 20 mA DC; conversion speed: 25 ms/4 channels; 47-point terminal block
	Current output	A64DAIC	4 channels; input (resolution): -4000 to 4000, -8000 to 8000, -12000 to 12000; output: -10 to 10 V DC; conversion speed: 25 ms/4 channels; 47-point terminal block
Temperature input	Platinum RTD	A64RD3C	4 channels, 3-wire type platinum RTD (Pt100 [JIS C1604-1989, DIN43760-1980], JPt100 [JIS C1604-1981]) conversion speed: 40 ms/channel, 47-point terminal block
		A64RD4C	4 channels, 4-wire type platinum RTD (Pt100 [JIS C1604-1989, DIN43760-1980], JPt100 [JIS C1604-1981]) conversion speed: 40 ms/channel, 47-point terminal block

Pulse I/O and positioning module

High annual assentar	AD61C	2 channels; 50 kpps; count input signal: 5/12/24 V DC; external input: 5/12/24 V DC; coincidence output: transistor (open collector) output, 12/24 V DC, 0.3 A; 47-point terminal block
High speed counter	AD62C	1 channel; 50/10 kpps; count input signal: 5/12/24 V DC; external input: 5/12/24 V DC; comparison output: transistor (open collector) output, 12/24 V DC, 0.1 A/point, 0.8 A/common; 47-point terminal block

MELSECNET/MINI Remote I/O

Orders will be accepted until the end of August 2008. The production will be discontinued at the end of September, 2008. Please refer to the Technical Bulletin No. T99-0070 for details.

F	Product	Туре	Outline
		AX11C	32 points, 100 to 120 V AC, 6 mA, response time: 30 ms, 16 points/common, 50-point terminal block
	AC	AX21C	32 points, 200 to 240 V AC, 5 mA, response time: 55 ms, 16 points/common, 50-point terminal block
		AJ35TB1-16A	16 points, 100 to 120 V AC, 6 mA, response time: 30 ms, 16 points/common, 34-point terminal block
		AX41C	32 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common, positive common, 50-point terminal block
	DC (Positive common)	AJ35PTF-32D	32 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common, positive common, 36-point terminal block
		AJ35TB3-8D	8 points, 24 V DC, 7 mA, response time: 10 ms, 8 points/2 commons, positive common, 26-point terminal block
nput	DC	AX81C	32 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common, positive/negative common, 50-point terminal block
	(Positive/negative	AJ35TB2-16D	16 points, 24 V DC, 7 mA, response time: 10 ms, 16 points/common, positive/negative common, 34-point terminal bloc
	common)	AJ35TB1-16D	16 points, 24 V DC, 7 mA, response time: 10 ms, 16 points/common, positive/negative common, 26-point terminal bloc
		AJ35TC1-32D	32 points, 24 V DC, 5 mA, response time: 10 ms, 32 points/common, positive/negative common, 40-pin connector
	AC/DC	AX31C	32 points, 12 V DC/24 V DC/12 V AC/24 V AC, 4 mA (12 V DC/12 V AC), 8.5 mA (24 V DC/24 V AC), response time: 30 ms (12/24 V DC)/35 ms (12/24 V AC), 16 points/common, 50-point terminal block
		AY13C	32 points, 24 V DC/240 V AC, 2 A/point, 4 A/common, leakage at OFF: 0 mA, response time: 12 ms, 8 points/common, 50-point terminal block
	Relay	AY15CEU	24 points, 24 V DC/240 V AC, 2 A/point, 4 A/common, leakage at OFF: 0 mA, response time: 12 ms, 8 points/common, 4 points/common, 50-point terminal block, CE compliant
	neiay	A IOSTDIA OD	
		AJ35TB1A-8R	8 points, 24 V DC, 2 A/point, response time: 12 ms, independent common, 26-point terminal block
		AJ35TB1-16R	16 points, 24 V DC/240 V AC, 2 A/point, 5 A/common, response time: 12 ms, 8 points/common, 34-point terminal bloc
		AJ35TB2-8R	8 points, 24 V DC/240 V AC, 2 A/point, 5 A/common, response time: 12 ms, 8 points/common, 26-point terminal block
	Triac	AY23C	32 points, 100/240 V AC, leakage at OFF: 1.5 mA (120 V AC), 3 mA (240 V AC), response time: 0.5 Hz + 1 ms, 8 points/common, 50-point terminal block, with surge suppressor
	- Indo	AJ35PTF-24S	24 points; 100 to 240 V AC; leakage at OFF: 1.5 mA (120 V AC), 3 mA (240 V AC); response time: 0.5 Hz + 1 ms; 8 points/common; 36-point terminal block; with fuse and surge suppressor
	Transistor	AY61CE	32 points, 5/12/24 V DC, leakage at OFF: 0.1 mA, response time: 10 ms, 8 points/common, source type, 50-point terminal block, with surge suppressor
Output	(Source)	AY81C	32 points, 24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 32 points/common, source type, 50-point terminal block, with surge suppressor
		AY51C	32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 32 points/common, sink type, 50-point terminal block, with surge suppressor
		AJ35TB1-16T	16 points, 24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 16 points/common, sink type, 26-point terminal block, with surge suppressor
	Transistor	AJ35TB1A-8T	8 points, 24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, independent common, sink type, 26-point terminal block, with surge suppressor
	(Sink)	AJ35TB2-16T	16 points, 24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 16 points/common, (2-wire type) sink type, 34-point terminal block, with surge suppressor
		AJ35TB2-8T	8 points, 5/12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 8 points/common, sink type, 26-point terminal block, with surge suppressor
		AJ35TC1-32T	32 points, 24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 32 points/common, sink type, 40-pin connector, with surge suppressor
		AX40Y50C	Input: 16 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common, positive common Output: 16 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 16 points/common, sink type, with surge suppressor, 50-point terminal block
		AX80Y80C	Input: 16 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common, positive/negative common, Output: 16 points, 24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 16 points/common, source type, with surge suppressor, 50-point terminal block
	DC/transistor	AJ35TB1-16DT	Input: 8 points, 24 V DC, 7 mA, response time: 10 ms, 8 points/common, positive/negative common Output: 8 points, 24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 8 points/common, sink type with surge suppressor, 34-point terminal block
		AJ35TC1-32DT	Input: 16 points, 24 V DC, 5 mA, response time: 10 ms, 16 points/common, positive/negative common Output: 16 points, 24 V DC, 16 mA, response time: 10 ms, 16 points/common, positive/negative common Output: 16 points, 24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 16 points/common, with surge suppressor, 40-pin connector
		AJ35PTF-56DT	Input: 32 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common, positive common Output: 24 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 8 points/common, sink type with surge suppressor, 36-point terminal block
I/O		AJ35TB1-16DR	Input: 8 points, 24 V DC, 7" A, response time: 10 ms, 8 points/common, positive/negative common Output: 8 points, 24 V DC, 7" A, response time: 10 ms, 8 points/common 34-point terminal block
		AJ35PTF-56DR	Input: 32 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common, positive common Output: 24 points, 24 V DC/240 V AC, 2 A/point, 5 A/common, response time: 12 ms, 8 points/common 36-point terminal block
	DC/relay	AX40Y10C	Input: 16 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common, positive common Output: 16 points, 24 V DC/240 V AC, 2 A/point, 4 A/common, response time: 12 ms, 8 points/common 50-point terminal block
		AX80Y10C	Input: 16 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common, positive/negative common Output: 16 points, 24 V DC/240 V AC, 2 A/point, 4 A/common, response time: 12 ms, 8 points/common 50-point terminal block
		AX80Y14CEU	Input: 16 points, 12/24 V DC, 3/7 mA, Response time: 10 ms, 16 points/common, positive/negative common Output: 12 points, 24 V DC/240 V AC, 2 A/point, 5 A/common, response time: 12 ms, 8 points/common, 4 points/commo 50-point terminal block
		AJ35TB1-16AR	Input: 8 points, 100 to 120 V AC, 6 mA, response time: 30 ms, 8 points/common Output: 8 points, 24 V DC/240 V AC, 2 A/point 5 A/common, pesponse time: 12 ms, 8 points/common 34-point terminal block
	AC/relay	AJ35PTF-56AR	Input: 32 points, 100 to 120 V AC, 10 mA, response time: 25 ms, 16 points/common Output: 24 points, 24 V DC/240 V AC, 2 A/point, 5 A/common, response time: 12 ms, 8 points/common 36-point terminal block
		AX10Y10C	Input: 16 points, 100 to 120 V AC, 6 mA, response time: 30 ms, 16 points/common Output: 16 points, 24 V DC/240 V AC, 2 A/point, 4 A/common, response time: 12 ms, 8 points/common 50-point terminal block



MELSECNET/MINI Remote

Orders will be accepted until the end of August 2008. The production will be discontinued at the end of September, 2008. Please refer to the Technical Bulletin No. T99-0070 for details.

I/O module

	Product		Туре	Outline
		DC/triac	AJ35PTF-28DS	Input: 16 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common, positive common Output: 12 points, 100 to 240 V AC, leakage at OFF: 3 mA, response time: 0.5 Hz + 1 ms, 8 points/common, 4 points/common, with fuse and surge suppressor, 36-point terminal block
	1/0		AJ35PTF-56DS	Input: 32 points, 12/24 V DC, 3/7 mA, response time: 10 ms, 16 points/common, positive common Output: 24 points, 100 to 240 V AC, leakage at OFF: 3 mA, response time: 0.5 Hz + 1 ms, 8 points/common, with fuse and surge suppressor, 36-point terminal block
	I/O	AC/triac	AJ35PTF-56AS	Input: 32 points, 100 to 120 V AC, response time: 35 ms,16 points/common Output: 24 points, 100 to 240 V AC, leakage at OFF: 3 mA, response time: 0.5 Hz + 1 ms, 8 points/common, with fuse and surge suppressor, 36-point terminal block
			AX10Y22C	Input: 16 points, 100 to 120 V AC, 6 mA, response time: 30 ms,16 points/common Output: 16 points, 100 to 240 V AC, leakage at OFF: 1.5 mA (120 V AC), 3 mA (240 V AC), response time: 0.5 Hz + 1 ms, 8 points/common, with surge suppressor, 50-point terminal block

Analog I/O module

Analog input	Voltage/ current input	A68ADC	3 channels; input: -10 to 10 V DC, 4 to 20 mA DC; output (resolution): -1000 to 1000, -2000 to 2000; conversion speed: 2.5 ms/channel; 47-point terminal block	
Analog	Voltage output	A64DAVC	4 channels; input (resolution): 0 to 4000, 0 to 8000, 0 to 12000; output: 0 to 20 mA DC; conversion speed: 25 ms/4 channels; 47-point terminal block	
output	Current output	A64DAIC	4 channels; input (resolution): -4000 to 4000, -8000 to 8000, -12000 to 12000; output: -10 to 10 V DC; conversion speed: 25 ms/4 channels; 47-point terminal block	
Temperature	Platinum RTD	A64RD3C	4 channels, 3-wire type platinum RTD (Pt100 [JIS C1604-1989, DIN43760-1980], JPt100 [JIS C1604-1981]) conversion speed: 40 ms/channel, 47-point terminal block	
input		A64RD4C	4 channels, 4-wire type platinum RTD (Pt100 [JIS C1604-1989, DIN43760-1980], JPt100 [JIS C1604-1981]) conversion speed: 40 ms/channel, 47-point terminal block	

Pulse I/O and positioning module

High speed counter	AD61C	2 channels; 50 kpps; count input signal: 5/12/24 V DC; external input: 5/12/24 V DC; coincidence output: transistor (open collector) output, 12/24 V DC, 0.3 A; 47-point terminal block
nigii speed countei	AD62C	1 channel; 50/10 kpps; count input signal: 5/12/24 V DC; external input: 5/12/24 V DC; comparison output: transistor (open collector) output, 12/24 V DC, 0.1 A/point, 0.8 A/common; 47-point terminal block

Information module

Serial communication A		AJ35PTF-R2	RS-232: 1 channel, transmission speed: 300 to 19200 bps
Operation	bov	AJ35PT-OPB-M1-S3	Mounted type
Operation	DOX	AJ35T-OPB-P1-S3	Portable type
Operation	Cable	AC30MINI	For connection between joint box and AJ35T-OPB-P1-S3
box	Joint box	AJ35T-JB-S3	Relay type

MELSEC-I/O Link Remote I/O

Production by order will begin in October, 2007. Please refer to the Technical Bulletin No. T99-0051 for details. I/O module

	DC	AJ55TB3-4D	4 points, 24 V DC, 7 mA, response time: 10 ms, 4 points/common, positive/negative common, 16-point terminal block
Input	(Positive/negative	AJ55TB3-8D	8 points, 24 V DC, 7 mA, response time: 10 ms, 8 points/common, positive/negative common, 24-point terminal block
	common)	AJ55TB3-16D	16 points, 24 V DC, 7 mA, response time: 10 ms, 16 points/common, positive/negative common, 40-point terminal block
		AJ55TB2-4R	4 points, 24 V DC/240 V AC, 2 A/point, 8 A/common, response time: 12 ms, 4 points/common, 16-point terminal block
	Relay	AJ55TB2-8R	8 points, 24 V DC/240 V AC, 2 A/point, 8 A/common, response time: 12 ms, 8 points/common, 24-point terminal block
		AJ55TB2-16R	16 points, 24 V DC/240 V AC, 2 A/point, 8 A/common, response time: 12 ms, 4 points/common, 40-point terminal block
Output		AJ55TB2-4T	4 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 4 points/common, sink type, 16-point terminal block, with surge suppressor
	Transistor (Sink)	AJ55TB2-8T	8 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 8 points/common, sink type, 24-point terminal block, with surge suppressor
		AJ55TB2-16T	16 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 16 points/common, sink type, 40-point terminal block, with surge suppressor
	DC/relay	AJ55TB32-4DR	Input: 2 points, 24 V DC, 7 mA, response time: 10 ms, 2 points/common, positive/negative common Output: 2 points, 24 V DC/240 V AC, 2 A/point, 4 A/common, response time: 12 ms, 2 points/common 16-point terminal block
		AJ55TB32-8DR	Input: 4 points, 24 V DC, 7 mA, response time: 10 ms, 4 points/common, positive/negative common Output: 4 points, 24 V DC/240 V AC, 2 A/point, 8 A/common, response time: 12 ms, 4 points/common 24-point terminal block
1/0		AJ55TB32-16DR	Input: 8 points, 24 V DC, 7 mA, response time: 10 ms, 8 points/common, positive/negative common Output: 8 points, 24 V DC/240 V AC, 2 A/point, 8 A/common, response time: 12 ms, 8 points/common 40-point terminal block
I/O		AJ55TB32-4DT	Input: 2 points, 24 V DC, 7 mA, response time: 10 ms, 2 points/common, positive common Output: 2 points, 24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 2 points/common sink type, with surge suppressor, 16-point terminal block
	DC/transistor	AJ55TB32-8DT	Input: 4 points, 24 V DC, 7 mA, response time: 10 ms, 4 points/common, positive common Output: 4 points, 24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 4 points/common sink type, with surge suppressor, 24-point terminal block
		AJ55TB32-16DT	Input: 8 points, 24 V DC, 7 mA, response time: 10 ms, 8 points/common, positive common Output: 8 points, 24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 8 points/common sink type, with surge suppressor, 40-point terminal block

Peripheral devices

Product		Туре	Outline
Printer		A7NPR-S1	A6CGT connection, drawing creation, MELSAP drawings, hard copy of program ladder diagram/list
	Cable	AC30R2	RS-232C connection cable between A6GPP and printer, 3 m
		A7NPR-S1-R	Printer ribbon for A7NPR-S1
		A7PR-R	Printer ribbon for A7PR
	Printer ribbon	K6PR-K-S1-R	Printer ribbon for K6PR-K-S1
Printer		K6PR-R	Printer ribbon for K6PR
		K7PR-R	Printer ribbon for K7PR
		K6PR-Y	Printer paper for K6PR
	Printer paper	K7PR-Y	Printer paper for K7PR
		K7PR-Y-S1	Printer paper
		SW□-FDC	For cleaning
Floppy dis	k	SW□-GPPU	640 KB (2DD) CP/M formatted
		SW□-USER	1.4 MB (2HD) MS-DOS formatted

MELSOFT

MELSOFT GX Series

GX Developer	SW□D5C-GPPW-E	MELSEC PLC programming software	
GX Developer	SW□D5C-GPPW-EV	MELSEC PLC programming software (Upgrade)	
GX Simulator	SW□D5C-LLT-E	MELSEC PLC simulation software	
GA Simulator	SW□D5C-LLT-EV	MELSEC PLC simulation software (Upgrade)	
GX Explorer	SW□D5C-EXP-E	Maintenance tool	
GX Converter	SW□D5C-CNVW-E	Excel®/text data converter	
GX Configurator-AP	SW□D5C-AD75P-E	MELSEC-A dedicated: positioning module setting/monitoring tool for AD75P/M	
GX Configurator-CC	SW□D5C-J61P-E	MELSEC-A dedicated: CC-Link module setting/monitoring tool	
GX RemoteService-I	SW□D5C-RAS-E	Remote access tool	
GX Works	SW□D5C-GPPLLT-E	A set of three products: GX Developer, GX Simulator, GX Explorer	

MELSOFT MX Series

MX Component	SW□D5C-ACT-E	ActiveX library for communication
MX Sheet	SW□D5C-SHEET-E	Excel® communication support tool
MX Works	SW□D5C-SHEETSET-E	A set of two products: MX Component, MX Sheet

Software

	SW□IVD-GPPQ-E	QnA Series dedicated GPP function, SFC (MELSAP3) function, telephone line compatible GPP function
	SW□IVD-CNVQ-E	QnA Series dedicated data conversion software package
	SW□IVD-LNKQ-E	QnA Series dedicated ladder sequence creation package
	SW□IVD-MSDQ-E	QnA Series dedicated macro/library collective package, for standard circuit
For	SW□IVD-MSPQ-E	QnA Series dedicated macro/library collective package, for special function modules
IBM Compatible	SW□IVD-MINIP-E	Software package for MELSECNET/MINI-S3
Personal computer	SW□IVD-ROMA-E	Software package for ROM function
	SW□IVD-AD71P	Software package for positioning
	SW□IVD-AD75P-E	Positioning programming, for AD75
	SW□IVD-CADIF-E	User CAD interface function software package
	SW□IVD-GPPA-E	A Series dedicated GPP function, SFC (MELSAP2) function, telephone line compatible GPP function * English manual provided



PC I/F Board

CPU		A80BDE-A2USH-S1	PCI bus, English OS compatible, no. of I/O points: 512, no. of I/O device points: 8,912, program capacity: 30 k steps, basic command processing speed (LD command): 0.09 ms, built-in RAM memory capacity: 448 KB
	01/001 11 1	Q80BD-J71LP21-25	PCI bus, Japanese/English OS compatible, SI/QSI optical cable, double loop, PLC-to-PLC network (control/normal station)
MELSEC	SI/QSI optical cable	Q80BD-J71LP21S-25	PCI bus, Japanese/English OS compatible, SI/QSI optical cable, double loop, PLC-to-PLC network (control/normal station), with external power supply function
NET/H (10)	GI optical cable	Q80BD-J71LP21G	PCI bus, Japanese/English OS compatible, GI optical cable, double loop, PLC-to-PLC network (control/normal station)
	Coaxial cable	Q80BD-J71BR11	PCI bus, Japanese/English OS compatible, 3C-2V/5C-2V coaxial cable, single bus, PLC-to-PLC network (control/normal station)
CC-Link		Q80BD-J61BT11N	PCI bus, Japanese/English OS compatible, for master/local station, CC-Link Ver.2 compatible
MELSEC	SI/QSI optical cable	A70BDE-J71QLP23	ISA bus, English OS compatible, SI/QSI optical cable, double loop, PLC-to-PLC network (normal station)
NET/10	Capyial aabla	A70BDE-J71QBR13	ISA bus, English OS compatible, 3C-2V/5C-2V coaxial cable, single bus, PLC-to-PLC network (normal station)
	Coaxial cable	A70BDE-J71QLR23	ISA bus, English OS compatible, 3C-2V/5C-2V coaxial cable, double loop, PLC-to-PLC network (normal station)

A-A1S Module Conversion Adapter

Please refer to the MELSEC-A/QnA (Large Type) Upgrade Catalog L(NA)08077 for details

Conversion adapters

For I/O modules	A1ADP-XY	Enables to mount AnS/QnAS (Small Type) Series I/O module on an empty slot of A/QnA (Large type) Series base
For special function modules	A1ADP-SP	Enables to mount AnS/QnAS (Small Type) Series special function module on an empty slot of A/QnA (Large type) Series base

MELSECNET (II), MELSECNET/10 Gateway Set Please refer to the MELSEC-A/QnA (Large Type) Upgrade Catalog L(NA)08077 for details

Gateway set*1

F MELOFONET (II)	Q6KT-NETGW-SS	A set of A1S35B, A1S61PN, Q2ASCPU, A1SJ71AF	P21, A1SJ71QLP21	
For MELSECNET (II)- MELSECNET/10	Q6KT-NETGW-GS	A set of A1S35B, A1S61PN, Q2ASCPU, A1SJ71AP21-S3, A1SJ71QLP21		
gateway	Q6KT-NETGW-RS	A set of A1S35B, A1S61PN, Q2ASCPU, A1SJ71AR21, A1SJ71QLP21		
gantra	Q6KT-NETGW-RB	A set of A1S35B, A1S61PN, Q2ASCPU, A1SJ71AR21, A1SJ71QBR11		
For MELSECNET/B-	Q6KT-NETGW-TS	A set of A1S35B, A1S61PN, Q2ASCPU, A1SJ71AT21B, A1SJ71QLP21		
MELSECNET/10 gateway	Q6KT-NETGW-TB	A set of A1S35B, A1S61PN, Q2ASCPU, A1SJ71AT21B, A1SJ71QBR11		
*1 Model name reading method	Q6KT-NETGW-	(1) Network type: MELSECNET (II) S: SI optical cable (Double loop) G: GI-50/125 optical cable (Double loop) R: Coaxial cable (Double loop) T: Twisted pair cable (Bus)	(2) Network type: MELSECNET/10 S: SI optical cable (Double loop) B: Coaxial cable (Bus)	

⁽²⁾ Network type: MELSECNET/10 S: SI optical cable (Double loop) B: Coaxial cable (Bus)

Mitsubishi Programmable Controllers

Precautions for Choosing the Products

This catalog explains the typical features and functions of the AnS/QnAS Series PLCs and does not provide restrictions and other information on usage and module combinations. When using the products, always read the user's manuals of the products.

Mitsubishi will not be held liable for damage caused by factors found not to be the cause of Mitsubishi; machine damage or lost profits caused by faults in the Mitsubishi products; damage, secondary damage, accident compensation caused by special factors unpredictable by Mitsubishi; damages to products other than Mitsubishi products; and to other duties.

♠ For safe use

- To use the products given in this catalog properly, always read the "manuals" before starting to use them
- This product has been manufactured as a general-purpose part for general industries, and has not been designed or manufactured to be incorporated in a device or system used in purposes related to human life.
- Before using the product for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi.
- This product has been manufactured under strict quality control. However, when installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.

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