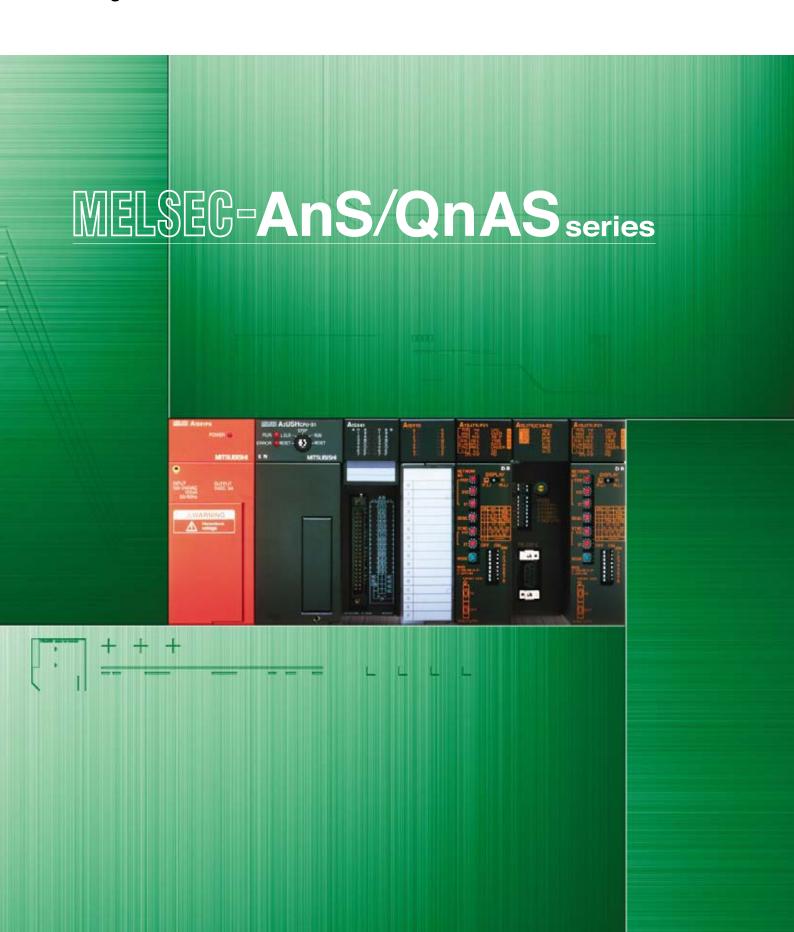


Mitsubishi Electric Programmable Controllers





# The Answer to Optimum Control -







Choose a programmable controller. Choose quality. Choose MELSEC-AnS/QnAS!

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!

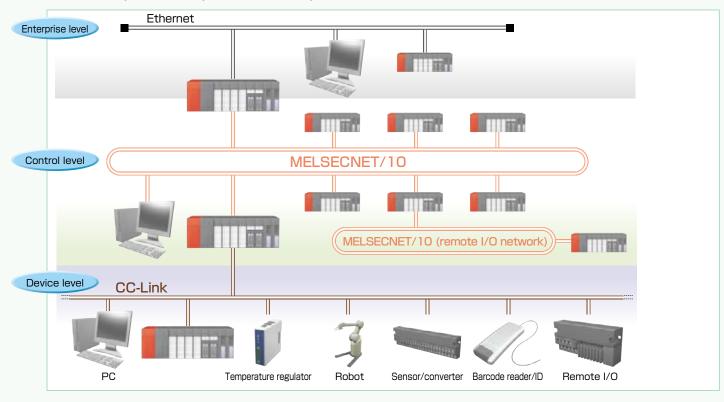




# From Large-scale Systems to Open Networks -

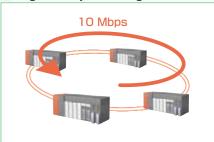
#### • Mitsubishi FA Network System

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.



#### ●MELSECNET/10

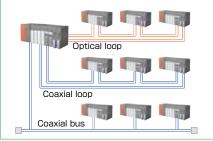
■ Large-scale system configuration



- (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 instructions (ZNRD, ZNWR) from the programmable controller program, In addition to this feature, the QnACPU can execute SEND, RECV, READ, WRITE, and REQ message transmission/reception instructions.

#### ■ Gateway function

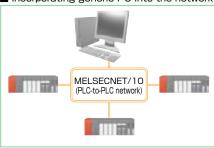
The gateway function to multiple networks via the QnACPU and AnUCPU enables interlink data transfer of link devices and a routing function that performs N:N communication with other networks.

#### ■ 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 programmable controller data using user-programmed functions with the software.

# The MELSEC-AnS/QnAS Network System



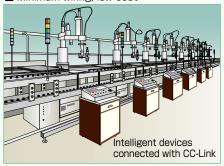
## ●MELSECNET/10 Specifications Ans For QnASCPU

	Type	Control/ normal station	A1SJ71QLP21 MS A1SJ71LP21 MS	A1SJ71QLR21 MS A1SJ71LR21 MS	A1SJ71QBR11 ANS	
Item		Remote I/O station	A1SJ72QLP25	A1SJ72QLR25	A1SJ72QBR15	
Trans	smiss	sion path	Optical loop (SI/QSI cable)	Coaxial loop	Coaxial bus	
Comi	Communication speed		10 Mbps/20 Mbps (multiplex transmission)			
Over	Overall distance		30 km	19.2 km/30 km * 1	300 m/500 m * 1	
Max. distance between stations		nce between stations	500 m/1 km*1	300 m/500 m*1		
Max. link points per network		ooints per network	X/Y: 8192 points, B: 8192 points, W: 8192 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)	

<sup>\*1:</sup> Varies depending on the type of cable used

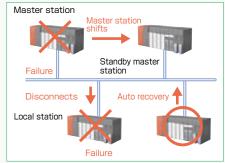
#### OCC-Link

#### ■ Minimum wiring, low cost

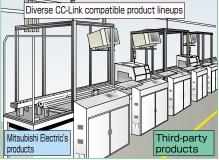


A bus type connection using dedicated CC-Link cables enables to connect multiple intelligent devices spread throughout the production line and to modify wiring easily. Hence, wiring and system maintenance costs are reduced.

#### $\blacksquare$ Reliable and safe system



#### ■ A wide selection of products

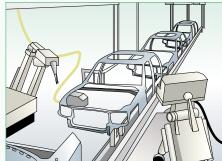


Optimal products can be selected from a wide variety of Mitsubishi Electric's products and third-party products for the CC-Link system.

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
- (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 Ans For Anscru

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	h 1 occupied station)
No. of occup	ied stations (local station)	1 to 4	
No. of link	Per system	Remote I/O: 2048 points Remote register: 256 points (master station to remote 256 points (remote/local station to m	**
points	Per remote/	Remote register: A points (master station to remote/local station)	
Transmission path		Bus (RS-4	.85)

\* 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.

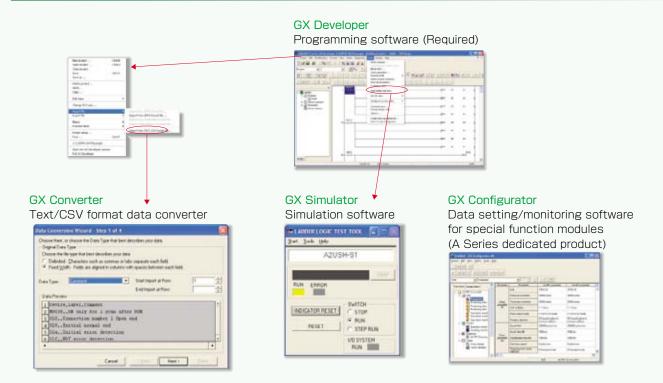
Э	Transmission speed	Station-to-station cable length	Maximum overall cable length
)	156 kbps		1200 m
1	625 kbps		900 m
3	2.5 Mbps	20 cm or longer	400 m
	5 Mbps		160 m
	10 Mbps		100 m

# From Program Development to Debugging, Monitoring and Diagnostics,

#### • Integrated FA Development and Debugging with MELSOFT

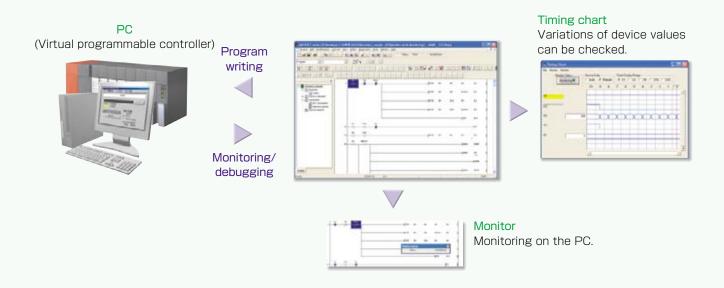
MELSOFT, Mitsubishi Electric's integrated FA software, dramatically improves operating efficiency for program development, debugging, and maintenance by taking advantage of Windows operability. More convenient and easy-to-use engineering environment is provided by the software such as GX Simulator that 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 programmable controller on the PC. Program debugging can be performed on the PC without needing actual hardware. By duplicating the operation of the actual programmable controller, 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.







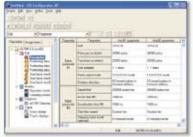
#### Easy Parameter Settings

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

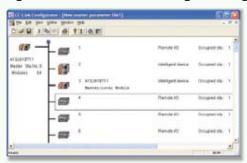


Image menu screen



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 programmable controllers. Its ActiveX $^{(8)}$  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 $^{(8)}$ , Visual C++ $^{(8)}$ , Excel/Access VBA, and VBScript, enabling a broad range of application developments.



MX Sheet



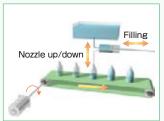
# MELSEC-AnS/QnAS Special Function Modules Designed to Meet Diverse Application Needs

# ●Positioning Module Ams 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.

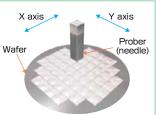
Bottle movement: Fixed-feed rate Nozzle up/down: Position control Fluid filling: Speed control



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



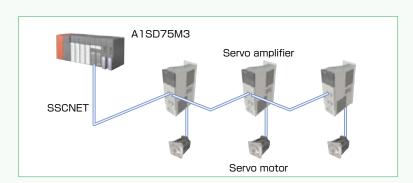
#### ●SSCNET Connection Type

- $\cdot$  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 CAS ANS	A1SD75M2 Ans	A1SD75M3 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	<ul> <li>2-axis linear interpolation, 2-axis circular interpolation</li> </ul>		

<sup>\*1:</sup> The positioning range is applicable when an absolute position system is not used.

#### SSCNET connection example

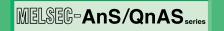


#### Open Collector/Differential Driver Output Type

- · Open collector/differential driver output type for standard servo amplifiers.
- · 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 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	<ul> <li>2-axis linear interpolation, 2-axis circular interpolation</li> </ul>		

<sup>\*1:</sup> The positioning range is applicable in the standard mode.



# ● Analog Input Module Ans For QnASCPU Ans For AnscPU

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

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

Item A		A1S64AD GAS ANS	A 1 S 68 A D GAS ANS
Analog	Voltage	-10 to 1	O V DC
input range	Current	-20 to 20 mA DC	O to 20 mA DC
Decelution	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 channels		4	8
Conversion speed		20 ms/channel	0.5 ms/channel

# ●Analog Output Module Ans For QnASCPU

The analog output modules convert the set digital values to analog values (voltage or current) and then output them externally.  $\cdot$  The most suitable type can be selected based on the number of channels, analog output characteristics, resolution, etc.

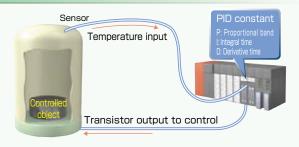
lte	em	A1S62DA onas ans	A1S68DAV GAS ANS	A1S68DAI ONAS ANS
Analog	Voltage	-10 to 1	IO V DC	_
output range	Current	0 to 20 mA DC	_	4 to 20 mA DC
D 1 11	Voltage	2.5/1.25/0.83 mV	5 mV	_
Resolution	Current	5/2.5/1.7 μA	_	4 μΑ
No. of channels		2	8	
Conversion speed 25 ms/2 channels		25 ms/2 channels	4 ms/8 channels	

#### Temperature Control Module

CINAS For QNASCPU

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.
- $\cdot$  Can control temperature up to four loops.
- · A1S64TCTRTBW can detect heater disconnection.



Item	A1S64TCTRT AS ANS	A1S64TCTRTBW Ans		
Control output	Standard control (heating or cooling	Standard control (heating or cooling control), heating-cooling control		
No. of temperature input points	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, he	Standard control: 0.5 s/4 channels, heating-cooling control: 0.5 s/2 channels		
Disconnection detection	No	Yes		

# ●Temperature Input Module And For QnASCPU

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.

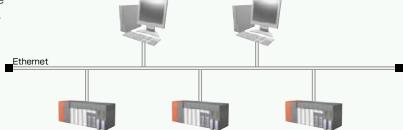
Item	A1S68TD CAS ANS	A1S62RD3N GAS ANS	A1S62RD4N ans
Supported sensors	Thermocouple (R, K, J, T, S, B, E)	Pt100, JPt100 (3-wire type)	Pt100, JPt100 (4-wire type)
No. of channels	8	2	
Temperature input range	0 to 1700℃	−180 to 600°C	
Resolution	B, R, S : 0.3℃ K, E, J, T : 0.1℃	0.025°C	
Conversion speed	400 ms/8 channels	40 ms/channel	

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

#### ●Ethernet Interface Module 🍱

GNAS For QNASCPU

- · Communication between the PC and programmable controller or between programmable controllers 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	A1SJ71QE71N3-T CAS A1SJ71E71N3-T Ans
Interface	10BASE-T
Data transmission speed	10 Mbps
Max. distance between nodes	-
Max. segment length	100 m (between hub and node)
Max. no. of nodes/connection	Max. 4 stages cascade connection
No. of simultaneously open connections allowed	8

#### ● Serial Communication Module Serial Communication Module

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 programmable controller CPU. The communication program for the PC can be simplified using MELSEC communication support tools (MX Component etc.).



- · 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 ····s	A1SJ71QC24N1-R2 •••s		
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			

#### 

An RS-232 or RS-422/RS-485 interface is used to perform data exchange between external devices (PCs, printers, etc.) and the programmable controller 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.)

· Monitoring the status of programmable controller 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	N	0



# OInterrupt Module For QnASCPU

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

Ito	em	A1SI61 ons Ans
No. of interrupt	input points	16 points
5	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 QNASCPU

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

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

Item	A1SD61	A1SD62 Chas Ans	A1SD62E	A1SD62D Gras 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 outpo	ut)	1/channel (coincidence output)
External output method (transistor output 12/24 V DC)	Open collector	Sink type	Source type	Sink	type

# ●Position Detection Module Rose 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.

l+c	em	A1S66AI	DA <mark>anas</mark> Ans	A1S63AD	)A ans Ans
TLE	:111	(A/D conversion)	(D/A conversion)	(A/D conversion)	(D/A conversion)
Analog I/O	Voltage		-10 to 1	O V DC	
Alidiog 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
riesolution	Current	5/4	μΑ	10/5/3.33 μΑ	5/2.5/1.7 μA
No. of channels		4	2	2	1
Conversion spee	ed	400 $\mu$ s/4 channels	240 μs/2 channels	1ms/channel (at 1/4000) 3ms/channel (at 1/12000)	, ,

# ●AS-i Master Module Ass 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.
- · The overall distance is 100 m. However, this can be extended to a maximum of 300 m with two repeaters.
- $\cdot$  Supports automatic slave address assignment function (Automatic address assignment function).

Item	A1SJ71AS92 ONS 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)

# **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	ons	
Operating ambient temperature			0 to 55°	С	
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	
	0 ( )	10 to 57 Hz	_	0.075 mm	
Vibration resistance	Conforming to JIS B 3502,	57 to 150 Hz	9.8 m/s <sup>2</sup>	_	10 times each in
Vibration resistance	IEC 61131-2	Unde	continuous vib	ration	X, Y, Z directions
	.20 0	Frequency	Acceleration	Amplitude	(for 80 minutes)
		10 to 57 Hz	_	0.035 mm	
		57 to 150 Hz	4.9m/s <sup>2</sup>	_	
Shock resistance	Conforming to C	JIS B 3502, IEC	61131-2 (147	m/s², 3 times e	each in X, Y, Z directions)
Operating atmosphere			No corrosive	gases	
Operating altitude			2000 m or	less	
Installation location			Inside contro	l panel	
Overvoltage category *1			II or les	3	
Pollution degree *2			2 or les	s	

<sup>\*1:</sup> 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.

<sup>\*2:</sup> 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	
O control mode			resh	
lo. of I/O device points		8192	points	
lo. of I/O points	1024 points	512 points	1024 points	512 points
uilt-in RAM capacity	240 KB	112 KB	240 KB	112 KB
Program capacity	60 k steps	28 k steps	60 k steps	28 k steps
C MIX value *2	· .	ructions	·	ructions
Internal relay (M)*1		8192	points	
			points	
Latch relay (L) *1 Step relay (S)  Appunciator (F) *1			clusively for SFC)	
Annunciator (F)*1		2048	points	
Edge relay (V)*1		2048	points	
Link relay (B) *1		8192	points	
2				
Timer (T)*1			high and low speed) ing is set by instructions.	
=			ent unit is set by parameters.	
Timer (T)*1				
Retentive timer (ST)*1		O points (max	x. 2048 points)	
Counter (C) *1		Counter: 1	024 points	
Counter (C) *1		Interrupt counter: 0 p	oints (max. 48 points)	
Data register (D) *1		12288	3 points	
Link register (W)*1		8192	points	
File register *1		Max. 1018 k words (w	hen using memory card)	
Accumulator (A)		١	No	
Pointer (P)		4096	points	
nterrupt pointer (I)		48 p	points	
ndex register (V, Z)		•	points	
		(∠ only. V is used	as an edge relay.)	
Master control		15 p	points	
nesting (N)				
Data type			bits), single precision floatin	
Function	Floating-point calculat		tion, text string processing, t operation, natural logarithm	trigonometric function,
		Square root, exponential t	pperation, natural logarithm	
Start at power on and at power restoration		Auto restart when	"RUN" switch is ON.	
			· · · · · · · · · · · · · · · · · · ·	
Constant scan			es	
atch (Power failure compensation) Remote RUN, STOP			es es	
PAUSE			es es	
Status latch			es es	
Sampling trace			es es	
Offline switch			vo	
Step operation			es	
Clock			es	
Online I/O module		<u> </u>		
change (hot-swap)		ľ	No	
nterrupt processing		٧	es	
Comment			es	
Watch dog timer			iable	
Microcomputer program area			No .	
Self-diagnostic function			es	
		ate. This can be changed		

<sup>\*1:</sup> Indicates the number of points in the default state. This can be changed by the parameters.

<sup>\*2:</sup> The PC MIX value is the average number of instructions, such as basic instructions or data processing instructions executed in 1  $\mu$ s. The processing speed will rise as the value increases.



### ●CPU Performance Specifications க

Programming language		Item	A2USHCPU-S1	A2USCPU	A2SHCPU	A1SJHCPU A1SHCPU
No. of I/O device points	Pro	gramming language		Ladder/L	ist/SFC	
No. of I/O points   1024 points   256 kg   64 kg   84 kg   94 kg   94 kg   96 kg   9	1/0	control mode	Refr	resh		
Builfin RAM capacity	No.	. of I/O device points	8192	points	2048	points
Program capacity   30 k steps   14 k steps   8 k steps	No.	. of I/O points	1024 points	512 p	ooints	256 points
PC MX value <sup>12</sup>   2.0 instructions   0.9 instructions   0.5 instructions   0.4 instructions	Bui	If-in RAM capacity	256 KB		64 KB	
Latch relay (b, 1)   Step relay (c)   2048 points   256 points					steps	·
Ster relay (L) 1   Total 8192 points   Total 2048 points	PC		2.0 instructions	0.9 instructions	0.5 instructions	0.4 instructions
Link relay (B) **1			Total 819	92 points	Total 204	48 points
Link relay (B) **1	7	Annunciator (F) *1	2048	points	256 բ	ooints
Timer (T) *1	ä			N	0	
Retentive timer (S1)**1  Counter: 1024 points Counter: 1024 points Interrupt counter: 0 points (max. 32 points)  Data register (D)**1  Bil 92 points  Counter: 1024 points Interrupt counter: 0 points (max. 256 points)  Link register (W)**1  Bil 92 points  O points (max. 8192 points)  Accumulator (A)  Pointer (P)  Pointer (P)  Pointer (P)  Counter: 1024 points  Index register (V, Z)  Index register (V, Z)  Index register (V, Z)  Interrupt pointer (I)  Data type  Integer type (16 bits/point)  Points  Floating-point calculation, fixed-point BCD calculation, text string processing, trigonometric function, square root, exponential operation, natural logarithm  Start at power on and at power restoration  Constant scan  Constant scan  Yes  Eath (Power Fillus compensation)  Permote RUN, STOP  PAUSE  Yes  Startus latch  Yes  Sempling trace  Offline switch  No  Points  No  No  Clock  Online I/O module change (not-swap)  Integrupt processing  Yes  Comment  Ves  Comment  No  No  Interrupt processing  Yes  Comment  Ves  Comment  Ves  Comment  Ves  Comment  Ves  Comment  Ves  No  No  No  No  No  No  No  No  No  N	>-	Link relay (B) *1	8192	points	1024	points
Data register (0)*1 8192 points   1024 points     Link register **1   8192 points   1024 points     File register **1   1024 points     File register (V, Z)   256 points     Index register (V, Z)   14 points     File Register (V, Z)   14 points     File Register (V, Z)   14 points     File Rest (16 bits/point)   2 points (16 bits/point)     File Rest (N)   8 points     File Rest (N)   8 points     File Rest (N)   10 points     File Rest (N)   1	Data memor			10 ms time 100 ms retentive	r: 56 points e timer: 0 points	
Data register (0)*1 8192 points   1024 points     Link register **1   8192 points   1024 points     File register **1   1024 points     File register (V, Z)   256 points     Index register (V, Z)   14 points     File Register (V, Z)   14 points     File Register (V, Z)   14 points     File Rest (16 bits/point)   2 points (16 bits/point)     File Rest (N)   8 points     File Rest (N)   8 points     File Rest (N)   10 points     File Rest (N)   1	0	Retentive timer (ST)	0	204	0	150
Link register (W)*1   8192 points   1024 points	7	Counter (C) *1		= -		
File register 1 0 points (max. 8192 points)  Accumulator (A) 2 points (16 bits/point)  Pointer (P) 256 points  Interrupt pointer (I) 32 points  Index register (V, Z) (16 bits/point) 2 points (16 bits/point)  Master control nesting (N) 8 points  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, square root, exponential operation, natural logarithm  Start at power on and at power restoration  Constant scan Yes  Latch (Power failure compensation) Yes  Remote RUN, STOP Yes  Status latch Yes  Sampling trace Yes  Campling trace Yes  Clock Yes  Oline I/O module change (hot-swap)  Interrupt processing Yes  Comment Yes  Match dog timer 200 ms (fixed) Variable  Microcomputer program area  Exclusively for SFC For users, packages, SFC			8192	points	1024	points
Accumulator (A) 2 points (16 bits/point)  Pointer (P) 256 points Interrupt pointer (I) 32 points Index register (V, Z) 14 points (16 bits/point) 2 points (16 bits/point)  Master control nesting (N) 8 points  Data type Integer type (16 bits), precision integer type (32 bits), single precision floating-point type (32 bits)  Function Floating-point calculation, fixed-point BCD calculation, text string processing, trigonometric function, square root, exponential operation, natural logarithm  Start at power on and at power restoration  Constant scan Yes  Latch (Power failure compensation)  Remote RUN, STOP Yes  Status latch Yes  Status latch Yes  Status latch Yes  Status latch Yes  Offline switch No Yes  Step operation Yes No  Clock  Online I/O module change (hot-swap)  Interrupt processing Yes  Comment Yes  Match dog timer 200 ms (fixed) Variable  Microcomputer program area  Exclusively for SFC  For users, packages, SFC			8192			points
Pointer (P) 256 points Interrupt pointer (I) 32 points Index register (V, Z) 14 points Index register (V, Z) 2 14 points Index register (V, Z) 3 14 points Index register (V, Z) 4 points Index register (V, Z) 2 14 points Index register (V, Z) 2 points (16 bits/point) Index register (V,						
Interrupt pointer (I) Index register (V, Z) Index register (V, Z) Index register (V, Z) Integer type (16 bits/point) Integer type (16 bits), precision integer type (32 bits), single precision floating-point type (32 bits)  Function Integer type (16 bits), precision integer type (32 bits), single precision floating-point type (32 bits)  Function Function Floating-point calculation, fixed-point BCD calculation, text string processing, trigonometric function, square root, exponential operation, natural logarithm  Auto restart when "RUN" switch is ON.  Auto restart when "RUN" switch is ON.  Constant scan Yes Latch (Power failure compensation) Yes PAUSE Yes Status latch Yes Status latch Yes Sampling trace Yes Offline switch No Yes Offline switch No Yes Online I/O module change (not-swap) Interrupt processing Comment Yes Watch dog timer Exclusively for SFC For users, packages, SFC						
Index register (V, Z)						
Index register (V, 2)  (16 bits/point)  Aster control nesting (N)  Data type  Integer type (16 bits), precision integer type (32 bits), single precision floating-point type (32 bits)  Function  Floating-point calculation, fixed-point BCD calculation, text string processing, trigonometric function, square root, exponential operation, natural logarithm  Start at power on and at power restoration  Constant scan  Latch (Power failure compensation)  Auto restart when "RUN" switch is ON.  Auto restart when "RUN" switch is ON.  Remote RUN, STOP  Yes  Remote RUN, STOP  Yes  Status latch  Yes  Sampling trace  Yes  Offline switch  No  Yes  Step operation  Yes  Online I/O module change (hot-swap)  Interrupt processing  Yes  Comment  Yes  Watch dog timer  ZOO ms (fixed)  Variable  For users, packages, SFC	Inte	errupt pointer (I)	1.4 m	· 1	oints	
nesting (N)  Data type  Integer type (16 bits), precision integer type (32 bits), single precision floating-point type (32 bits)  Floating-point calculation, fixed-point BCD calculation, square root, exponential operation, natural logarithm  Start at power on and at power restoration  Constant scan  Lutch (Power failure compensation)  Remote RUN, STOP  PAUSE  Status latch  Sampling trace  Offline switch  No  Yes  Step operation  Yes  Online I/O module change (hot-swap)  Interrupt processing  Comment  Wes  Watch dog timer  Exclusively for SFC  For users, packages, SFC	Ind	ex register (V, Z)			2 points (16	6 bits/point)
Floating-point calculation, fixed-point BCD calculation, text string processing, trigonometric function, square root, exponential operation, natural logarithm  Start at power on and at power restoration  Constant scan  Latch (Power failure compensation)  Remote RUN, STOP  PAUSE  Status latch  Yes  Status latch  Yes  Sampling trace  Offline switch  No  Clock  Yes  Online I/O module change (hot-swap)  Interrupt processing  Comment  Yes  Watch dog timer  Floating-point calculation, fixed-point BCD calculation, text string processing, trigonometric function, square root, exponential operation, natural logarithm  No  No  No  No  No  No  Yes  No  Clock  Yes  Online I/O module change (hot-swap)  Interrupt processing  Yes  Comment  Yes  Watch dog timer  Exclusively for SFC  For users, packages, SFC				8 po	ints	
Function text string processing, trigonometric function, square root, exponential operation, natural logarithm  Start at power on and at power restoration  Constant scan  Latch (Power failure compensation)  Remote RUIN, STOP  PAUSE  Status latch  Yes  Status latch  Yes  Sampling trace  Offline switch  No  Ves  Step operation  Clock  Yes  Online I/O module change (hot-swap)  Interrupt processing  Comment  Yes  Watch dog timer  Exclusively for SFC  Auto restart when "RUN" switch is ON.  No  Yes  Yes  Ves  Yes  No  No  No  No  Ves  Ves  Ves  Ves  Variable  For users, packages, SFC	Da	ta type	Integer type (16 bits)	, precision integer type (32 I	oits), single precision floatin	g-point type (32 bits)
at power restoration  Constant scan  Yes  Latch (Power failure compensation)  Remote RUN, STOP  PAUSE  Status latch  Yes  Sampling trace  Offline switch  No  Yes  Step operation  Clock  Online I/O module change (hot-swap)  Interrupt processing  Watch dog timer  Microcomputer program area  Auto restart when "RUN" switch is UN.  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	Fur	nction	text string processing, trigo	nometric function,	N	0
Latch (Power failure compensation)         Yes           Remote RUN, STOP         Yes           PAUSE         Yes           Status latch         Yes           Sampling trace         Yes           Offline switch         No         Yes           Step operation         Yes         No           Clock         Yes         No           Online I/O module change (hot-swap)         No         No           Interrupt processing         Yes           Comment         Yes           Watch dog timer         200 ms (fixed)         Variable           Microcomputer program area         Exclusively for SFC         For users, packages, SFC				Auto restart when "	RUN" switch is ON.	
Remote RUN, STOP         Yes           PAUSE         Yes           Status latch         Yes           Sampling trace         Yes           Offline switch         No         Yes           Step operation         Yes         No           Clock         Yes         No           Online I/O module change (hot-swap)         No         No           Interrupt processing         Yes         Yes           Comment         Yes         Yes           Watch dog timer         200 ms (fixed)         Variable           Microcomputer program area         Exclusively for SFC         For users, packages, SFC	Coi	nstant scan		Ye	es	
PAUSE         Yes           Status latch         Yes           Sampling trace         Yes           Offline switch         No         Yes           Step operation         Yes         No           Clock         Yes         No           Online I/O module change (hot-swap)         No         No           Interrupt processing         Yes         Yes           Comment         Yes         Yes           Watch dog timer         200 ms (fixed)         Variable           Microcomputer program area         Exclusively for SFC         For users, packages, SFC	Lato	h (Power failure compensation)		Ye	98	
Status latch         Yes           Sampling trace         Yes           Offline switch         No         Yes           Step operation         Yes         No           Clock         Yes         No           Online I/O module change (hot-swap)         No         No           Interrupt processing         Yes         Yes           Comment         Yes         Yes           Watch dog timer         200 ms (fixed)         Variable           Microcomputer program area         Exclusively for SFC         For users, packages, SFC	Rei	mote RUN, STOP		Ye	es	
Sampling trace  Offline switch  No  Yes  Step operation  Clock  Online I/O module change (hot-swap)  Interrupt processing  Comment  Watch dog timer  Microcomputer program area  Yes  Yes  Yes  Variable  For users, packages, SFC	PA	USE				
Offline switch  Step operation  Yes  No  Clock  Online I/O module change (hot-swap)  Interrupt processing  Comment  Watch dog timer  Microcomputer program area  No  Yes  No  Yes  Variable  For users, packages, SFC	Sta	atus latch				
Step operation  Clock  Yes  Online I/O module change (hot-swap)  Interrupt processing  Comment  Watch dog timer  Microcomputer program area  Yes  No  Variable  For users, packages, SFC	Sai	mpling trace				
Clock Online I/O module change (hot-swap) Interrupt processing Comment Watch dog timer Wicrocomputer program area Ves Variable For users, packages, SFC						
Online I/O module change (hot-swap)  Interrupt processing  Comment  Watch dog timer  Microcomputer program area  No  No  Yes  Yes  Variable  For users, packages, SFC			Ye	l l		0
change (hot-swap)  Interrupt processing  Comment  Watch dog timer  Microcomputer program area  No  Yes  Yes  Variable  Exclusively for SFC  For users, packages, SFC				Υe	es .	
Comment     Yes       Watch dog timer     200 ms (fixed)     Variable       Microcomputer program area     Exclusively for SFC     For users, packages, SFC				N	0	
Watch dog timer 200 ms (fixed) Variable  Microcomputer program area Exclusively for SFC For users, packages, SFC	Inte	errupt processing		Ye	es	
Microcomputer program area Exclusively for SFC For users, packages, SFC	Coi	mment				
Self-diagnostic function Yes			Exclusive			ckages, SFC
	Sel	If-diagnostic function		Ye	es	

<sup>\*1:</sup> Indicates the number of points in the default state. This can be changed by the parameters.

<sup>\*2:</sup> The PC MIX value is the average number of instructions such as basic instructions or data processing instructions executed in 1  $\mu$ s. The processing speed will rise as the value increases.

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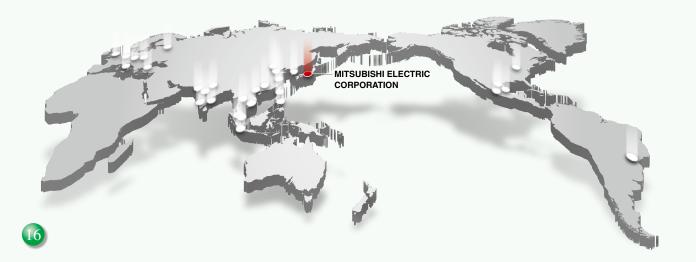
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## QnAS

#### CPU, base, power supply

ı	Product	Model	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 $\mu$ s
OBL		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 µs
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 $\mu$ s
		Q2ASHCPU-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): 0.075 $\mu$ s
		A1S38HB	8 slots, power supply module required, for QnAS and AnS Series modules, high-speed access for QnAS Series
		A1S38HBEU	8 slots, power supply module required, for QnAS and AnS Series modules, high-speed access for QnAS Series, CE compliant
	Main base	A1S38B	8 slots, power supply module required, for QnAS/AnS Series modules
		A1S35B	5 slots, power supply module required, for QnAS/AnS Series modules
		A1S33B	3 slots, power supply module required, for QnAS/AnS Series modules
		A1S32B	2 slots, power supply module required, for QnAS/AnS Series modules
		A1S58B	8 slots, power supply module not required, for QnAS/AnS Series modules
		A1S55B	5 slots, power supply module not required, for QnAS/AnS Series modules
Base	Extension base	A1S52B	2 slots, power supply module not required, for QnAS/AnS Series modules
		A1S68B	8 slots, power supply module required, for QnAS/AnS Series modules
		A1S65B	5 slots, power supply module required, for QnAS/AnS Series modules
		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
	Extension cable	A1SC07B	For extension base connection, 0.7 m *One cable per extension base required
	Extension cable	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
		A1SC60B	For extension base connection, 6 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 su	pply	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 of	card	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

#### I/O module

	Product	Model	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	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
	(Positive 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
		A1SX10	16 points, 100 to 120 V AC, 6 mA, response time: 35 ms, 16 points/common, 20-point terminal block
	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		A1SX20	16 points, 200 to 240 V AC, 9 mA, response time: 55 ms, 16 points/common, 20-point terminal block
	AC200	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 AC/24 V AC/12 V DC/24 V DC, 4.2 mA (12 V AC, 12 V DC)/8.6 mA (24 V AC, 24 V DC), response time: 2.5 ms, 16 points/common, 20-point terminal block
		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
Output		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
	Trice	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





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#### I/O module

A1SY40P 15 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  Transistor (Sink)  A1SY42P 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-pins, 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 15 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 tuse and surge suppressor  A1SY60 15 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  A1SY60 15 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 V DC, leakage at OFF: 0.1 mA, response time: 10 ms, all points independent, 20-point terminal block, with surge suppressor  A1SY80 15 points, 5/12/24 V DC, leakage at OFF: 0.1 mA, response time: 10 ms, all points independent, 37-pin D-sub-connector, with surge suppressor  A1SY80 16 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 8 points/common, source type, 37-pin D-sub-connector, with fuse and surge suppressor  A1SY81 32 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.  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.  A1SH42-S1 Input: 32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 1 ms, 32 points/common, source type, 40-pin connector, with fuse and surge suppressor. 40-pin connector points, 12/24 V DC, 25 mA
Transistor (Sink)  A1SY42P  40-pin connector, with thermal/short-circuit protection and surge suppressor  41SY50  A1SY50  40-pin connector, with thermal/short-circuit protection and surge suppressor  A1SY50  16 points, 2/24 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  A1SY60E  16 points, 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  A1SY60E  17 ansistor  A1SY60B  A1SY60B  A1SY60B  A1SY60B  B 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  TL CMOS  A1SY71  32 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  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  A1SY81  32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 2 ms, 8 points/common, source type, 37-pin D-sub connector, with fuse and surge suppressor  A1SY82  A1SY82  A1SY84  A1SY84  A1SH42  A1SH42  DC/transistor  A1SH42-S1  DC/transistor  DC/transistor  DC/transistor  A1SH42P-S1  DC/transistor  A1SH43P-S1  DC/transistor  A1SH44P-S1  DC/transistor  A1SH44P-S1  DC/transistor  A1SH45P-S1  DC/transistor
A1SY42P
Output  Transistor (Source)  A1SY80E  A1SY80E  A1SY80E  A1SY80E  Transistor (Source)  A1SY80A  A1SY80B  A1SY80B
Output  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, 5/12/2 V DC, response time: 1 ms, 32 points/common, sink type, 40-pin connector, with fuse and surge suppressor  A1SY80  A1SY80  A1SY80  A1SY81  32 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  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  A1SY82  A1SY82  A1SH42  Input: 32 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  A1SH42  Input: 32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 0 ms, 32 points/common; output 32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 0 ms, 32 points/common; output 32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 0 ms, 32 points/common; output 32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 0 ms, 32 points/common, with fuse and surge suppressor; 40-pin connector Input: 32 points, 12/24 V DC, 5 mA, response time: 0 ms, 32 points/common, positive common; output: 32 points, 12/24 V DC, 2/5 mA, response time: 0 ms, 32 points/common, positive common; output: 32 points, 12/24 V DC, 5 mA, response time: 0 ms, 32 points/common, positive common; output: 32 points, 12/24 V DC, 5 mA, response time: 0 ms, 32 points/common, positive common; output: 32 points, 12/24 V DC, 5 mA, response time: 0 ms, 32 points/common, positive common; output: 32 points, 12/24 V DC, 5 mA, response time: 0 ms, 32 points/common, positive common; output: 32 point
Transistor   A1SY60E   20-point terminal block, with fuse and 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  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  A1SH42 64 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: 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; 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 linput: 32 points, 12/24 V DC, 2/5 mA, response time: 0.3 ms, 32 points/common, positive common; output 32 points, 12/24 V DC, 2/5 mA, response time: 1 ms, 32 points/common, positive common; output: 32 points, 12/24 V DC, 2/5 mA, response time: 1 ms, 32 points/common, sink type, with thermal/short-circuit protection and surge suppressor; 40-pin connector linput: 32 points, 12/24 V DC, 5 mA, response time: 1 ms, 32 points/common, sink type, with thermal/short-circuit protection and surge suppressor; 40-pin connector linput: 32 points, 12/24 V DC, 6 mA, response time: 0.3 ms, 32 points/common, positive common; output 8 points, 24 V DC, 7 mA, response time: 10 ms, 8 points/common, positive common; output 8 points, 24 V DC, 7 mA, response time: 10 ms, 8 points/common, positive common; output 8 points, 24 V DC, 7 mA, response time: 1 ms, 32 points/common; 20-point terminal block  Po/Irransistor A1SX48Y58 lengths and block and block and surge suppressor; 40-pin connector leakage at OFF: 0.1 mA, response time: 1 ms, 8 points/common;
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  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  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: 0.3 ms, 32 points/common; output 32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 0.3 ms, 32 points/common; output 32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 10 ms, 32 points/common; output 32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 10 ms, 32 points/common; positive common; output: 32 points, 12/24 V DC, 5 mA, response time: 10 ms, 32 points/common, positive common; output: 32 points, 12/24 V DC leakage at OFF: 0.1 mA, response time: 10 ms, 32 points/common, positive common; output: 32 points, 12/24 V DC leakage at OFF: 0.1 mA, response time: 1 ms, 32 points/common, high-speed input; output: 32 points, 12/24 V DC, 5 mA, response time: 0.3 ms, 32 points/common, positive common, input: 32 points, 12/24 V DC leakage at OFF: 0.1 mA, response time: 1 ms, 32 points/common, positive common, sink type, with thermal/short-circuit protection and surge suppressor; 40-pin connector  DC/trelay 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: 1 ms, 8 points/common; 20-point terminal block leakage at OFF: 0.1 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: 10 ms, 8 points/common, positive common; 20-point terminal block leakage at OFF: 0.1 mA, response time
Transistor (Source)  A1SY81  20-point terminal block, with fuse and surge suppressor  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  A1SY82  A1SH42  A1SH42  A1SH42  A1SH42  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: 0.3 ms, 32 points/common; output 32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 0.3 ms, 32 points/common; output 32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 0.3 ms, 32 points/common; output 32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 0.3 ms, 32 points/common; output 32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 0.3 ms, 32 points/common; output 32 points, 12/24 V DC, leakage at OFF: 0.1 mA, response time: 0.3 ms, 32 points/common, positive common; output: 32 points, 12/24 V DC, 2/5 mA, response time: 10 ms, 32 points/common, positive common; output: 32 points, 12/24 V DC, 2/5 mA, response time: 0.3 ms, 32 points/common, positive common; output: 32 points, 12/24 V DC, 5 mA, response time: 0.3 ms, 32 points/common, positive common, sink type, with thermal/short-circuit protection and surge suppressor; 40-pin connector  DC/relay  A1SX48Y18  A1SX48Y18  Input: 8 points, 24 V DC, 7 mA, response time: 10 ms, 8 points/common, positive common; output 8 points, 24 V DC, 7 mA, response time: 10 ms, 8 points/common, positive common; output 8 points, 24 V DC, 7 mA, response time: 12 ms, 8 points/common, positive common; output 8 points, 12/24 V DC leakage at OFF: 0.1 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: 10 ms, 8 points/common, positive common; output 8 points, 12/24 V DC leakage at OFF: 0.1 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: 10 ms, 8 poi
A1SY81   37-pin D-sub connector, with fuse and surge suppressor
A1SH42
DC/transistor  I/O    A1SH42   leakage at OFF: 0.1 mA, response time: 2 ms, 32 points/common, with fuse and surge suppressor; 40-pin connector lnput: 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: 10 ms, 32 points/common, positive common; output: 32 points, 12/24 V DC, 2/5 mA, response time: 10 ms, 32 points/common, positive common; output: 32 points, 12/24 V DC, 2/5 mA, response time: 10 ms, 32 points/common, positive common; output: 32 points, 12/24 V DC, 2/5 mA, response time: 0.3 ms, 32 points/common, positive common; output: 32 points, 12/24 V DC, 2/5 mA, response time: 10 ms, 32 points/common, positive common, high-speed input; output: 32 points, 24 V DC, 5 mA, response time: 0.3 ms, 32 points/common, positive common, high-speed input; output: 32 points, 24 V DC, 5 mA, response time: 0.3 ms, 32 points/common, positive common, sink type, with thermal/short-circuit protection and surge suppressor; 40-pin connector    DC/relay
I/O    DC/transistor   DC/transistor   Leakage at OFF: 0.1 mA, response time: 2 ms, 32 points/common, with fuse and surge suppressor; 40-pin connector
Input: 32 points, 12/24 V DC, 2/5 mA, response time: 10 ms, 32 points/common, positive common; output: 32 points, 12/24 V DC leakage at OFF: 0.1 mA, response time: 1 ms, 32 points/common, positive common; with thermal/short-circuit protection and surge suppressor; 40-pin connector  A1SH42P-S1
A1SH42P-S1 Input: 32 points, 24 V DC, 5 mA, response time: 0.3 ms, 32 points/common, positive common, high-speed input; output: 32 points, 12/24 V DC leakage at OFF: 0.1 mA, response time: 1 ms, 32 points/common, sink type, with thermal/short-circuit protection and surge suppressor; 40-pin connector  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  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, 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  A6CON1
DC/transistor  A1SX48Y58  24 V DC/240 V AC, 2 A/point, 8 A/common, response time: 12 ms, 8 points/common; 20-point terminal block  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  A6CON1  40-pin connector, soldering type  40-pin connector, crimp-contact type
A15X48Y58 leakage at OFF: 0.1 mA, response time: 2 ms, 8 points/common, with fuse and surge suppressor; 20-point terminal block  A6CON1 40-pin connector, soldering type  A6CON2 40-pin connector, crimp-contact 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)

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#### I/O module

Product		Model	Outline
		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 block	Cable	AC80TB	For A6TBXY36, A6TBXY54, A6TBX70 (for positive common / sink type); 8 m *Common power supply 0.5 A or lower
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, A6TBY36-E, A6TBX54-E, A6TBY54-E, A6TBX70-E (for negative common / source type); 0.5 m
		AC10TB-E	For A6TBX36-E, A6TBX36-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, A6TBX36-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
	4.0	A1S-TA32	32-point IDC terminal block adapter, 0.5 mm <sup>2</sup> (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)
	ασαρισι	A1S-TB32	32-point terminal block adapter, 0.14 to 0.75 mm² (AWG26 to 18), for conversion to European type terminal block

#### Analog I/O module

Product		Model	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/O	•	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), $240~\mu$ s/2 channels (analog output); $20$ -point terminal block
	Platinum	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	RTD	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
Tomporatur	o 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
Temperature control		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

Р	roduct	Model	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 spee	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
Positionin	g	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
Desire		A1SD75M1	1 axis; control unit: pulse, mm, inch, degree; no. of positioning data: 600 pieces/axis; 36-pin connector; SSCNET connection
Positioning	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
		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
		AD75C20SJ2	Cable for connecting AD75P A1SD75P positioning module and MR-J2 A, 2 m
	Cable	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
Position d	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

Ethernet	A1SJ71QE71N3-T	10BASE-T
Serial communication	A1SJ71QC24N1	RS-232: 1 channel, RS-422/485: 1 channel, transmission speed: 2 channels can be used simultaneously at 115.2 kbps
Serial communication	A1SJ71QC24N1-R2	RS-232: 2 channels, transmission speed: 2 channels can be used simultaneously at 115.2 kbps
Intelligent communication	SW□IVD-AD51HP	Software package for QD51H, AD51H-S3, A1SD51S

#### Control network module

Product		Model	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	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)
NET/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)
MELSECN	IET( II )	A1SJ71AP21	SI-200/250 optical cable, double loop, MELSECNET(II) master/local station
MELSEUN	IE1(11 <i>)</i>	A1SJ71AR21	3C-2V/5C-2V coaxial cable, double, loop MELSECNET(II) master/local station
MELSECN	IET/B	A1SJ71AT21B	Twisted pair cable, single bus, MELSECNET/B (master/local station)
MELSEC-I	/O Link	A1SJ51T64	Twisted pair/cab-tire cable, single bus, MELSEC-I/O Link (master module)

#### Peripheral devices

Programming module Cable	AC30R4	Cable for connecting CPU and A7PU/A7HGP/A6GPP, 3 m *A7HGP-SET/A6GPP-SET provided
Modem interface module	Q6TEL	Interface module to connect peripheral devices to the telephone line

# AnS

#### CPU, base, power supply

Product  Model  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 speed (LD instruction): 1.0 µs, 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): 3.03 µs, built-in memory capacity: 8 k steps, basic instruction processing speed (LD instruction): 3.03 µs, built-in memory capacity: 64 KB  A1SHCPU  No. of I/O points: 552 points, no. of I/O device points: 256 points, program capacity: 8 k steps, basic instruction processing speed (LD instruction): 0.32 µs, built-in RAM memory capacity: 64 KB  A2SHCPU  No. of I/O points: 512 points, no. of I/O device points: 512 points, program capacity: 10 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: 512 points, program capacity: 10 k steps, basic instruction processing speed (LD instruction): 0.02 µs, built-in RAM memory capacity: 64 KB  A2USCPU  No. of I/O points: 1024 points, no. of I/O device points: 8102 points, program capacity: 30 k steps, basic instruction processing speed (LD instruction): 0.00 µs, built-in RAM memory capacity: 256 KB  A1S38B  A1S3	J. 5, 545	c, power supp	··· <b>·</b>	
Province of the content of the con	F	Product	Model	Outline
Province of the processing speed (LD instruction): 0.33 μs, built-in RAM memory capacity: 64 KB  A1SJHCPU No. of I/O points: 256 points, no. of I/O device points: 256 points, program capacity: 84 kgs. ps. basic instruction processing speed (LD instruction): 0.32 μs, built-in RAM memory capacity: 64 KB, 5 slots, 100 to 240 V AC input/5 V DC 3 A output power supply when the processing speed (LD instruction): 0.25 μs, built-in RAM memory capacity: 64 KB, 5 slots, 100 to 240 V AC input/5 V DC 3 A output power supply basic instruction processing speed (LD instruction): 0.25 μs, built-in RAM memory capacity: 64 KB, 5 slots, 100 to 240 V AC input/5 V DC 3 A output power supply basic instruction processing speed (LD instruction): 0.2 μs, built-in RAM memory capacity: 64 KB, 5 slots, 100 to 240 V AC input/5 V DC 3 A output power supply supply instruction; 100 to 24 v Sp. built-in RAM memory capacity: 64 KB, 5 slots, 100 to 240 V AC input/5 V DC 3 A output power supply module required, for CnAS/AnS Series modules  A1S38B 8 slots, power supply module required, for CnAS/AnS Series modules  A1S32B 2 slots, power supply module required, for CnAS/AnS Series modules  A1S38B 8 slots, power supply module required, for CnAS/AnS Series modules  A1S58B 8 slots, power supply module not required, for CnAS/AnS Series modules  A1S58B 8 slots, power supply module not required, for CnAS/AnS Series modules  A1S58B 8 slots, power supply module not required, for CnAS/AnS Series modules  A1S68B 8 slots, power supply module not required, for CnAS/AnS Series modules  A1S68B 8 slots, power supply module not required, for CnAS/AnS Series modules  A1S65B 5 slots, power supply module required, for CnAS/AnS Series modules  A1S65B For extension base connection, 0.3 m * One cable per extension base required  A1SC01B For extension base connection, 0.3 m * One cable per extension base required  A1SC01B For extension base connection, 0.7 m * One cable per extension base required  A1SC1B For extension base connection, 0.7 m * One cable per extension ba			A1SCPUC24-R2	
CPU  ASHCPU  ASHCPU  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: 5192 points, program capacity: 14 k steps, basic instruction processing speed (LD instruction): 0.25 µs, built-in RAM memory capacity: 64 KB  A2USHCPU-S1  A2USHCPU-S1  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): 0.09 µs, built-in RAM memory capacity: 256 KB  A1S38B  8 slots, power supply module required, for OnAS/AnS Series modules  A1S32B  3 slots, power supply module required, for OnAS/AnS Series modules  A1S32B  3 slots, power supply module required, for OnAS/AnS Series modules  A1S38B  3 slots, power supply module nequired, for OnAS/AnS series modules  A1S58B  5 slots, power supply module not required, for OnAS/AnS series modules  A1S58B  5 slots, power supply module not required, for OnAS/AnS series modules  A1S58B  5 slots, power supply module not required, for OnAS/AnS series modules  A1S58B  3 slots, power supply module not required, for OnAS/AnS series modules  A1S58B  5 slots, power supply module not required, for OnAS/AnS series modules  A1S58B  5 slots, power supply module not required, for OnAS/AnS series modules  A1S68B  8 slots, power supply module required, for OnAS/AnS series modules  A1S60B  For extension base horizontal connection, 0.055 m * One cable per extension base required  A1SC01B  A1SC01B  For extension base connection, 0.1 m * One cable per extension base required  A1SC03B  For extension base connection, 0.7 m * One cable per extension base required  A1SC03B  For extension base connection, 0.7 m * One cable per extension base required  A1SC60B  For extension base connection, 6 m * One cable per extension base required  A1SC60B  For extension base connection, 6 m * One cable per extension base requ			A1SHCPU	
A2SHCPU  A2SHCPU  A2SHCPU  A2USCPU  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 µs, built-in RAM memory capacity: 256 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 µs, built-in RAM memory capacity: 256 KB  A1S38B  8 slots, power supply module required, for CnAS/AnS Series modules  A1S35B  5 slots, power supply module required, for CnAS/AnS Series modules  A1S32B  2 slots, power supply module required, for CnAS/AnS Series modules  A1S35B  8 slots, power supply module not required, for CnAS/AnS series modules  A1S55B  5 slots, power supply module not required, for CnAS/AnS series modules  A1S65B  8 slots, power supply module not required, for CnAS/AnS series modules  A1S65B  5 slots, power supply module required, for CnAS/AnS series modules  A1S65B  5 slots, power supply module not required, for CnAS/AnS series modules  A1S65B  5 slots, power supply module required, for CnAS/AnS series modules  A1S65B  5 slots, power supply module required, for CnAS/AnS series modules  A1S65B  5 slots, power supply module required, for CnAS/AnS series modules  A1S65B  5 slots, power supply module required, for CnAS/AnS series modules  A1S65B  5 slots, power supply module pour required, for CnAS/AnS series modules  A1S65B  6 slots, power supply module pour required, for CnAS/AnS series modules  A1S65B  6 slots, power supply module pour required, for CnAS/AnS series modules  A1S65B  6 slots, power supply module pour required, for CnAS/AnS series modules  A1S65B  6 revetansion base connection, 0.55 m * One cable per extension base required  A1SC01B  A1SC01B  For extension base connection, 0.	CDLI		A1SJHCPU	
basic instruction processing speed (LD instruction): 0.2 µs, 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 µs, built-in RAM memory capacity: 256 KB  A1S38B  8 stots, power supply module required, for QnAS/AnS Series modules  A1S33B  3 stots, power supply module required, for QnAS/AnS Series modules  A1S32B  2 stots, power supply module required, for QnAS/AnS Series modules  A1S32B  2 stots, power supply module required, for QnAS/AnS Series modules  A1S32B  2 stots, power supply module not required, for QnAS/AnS series modules  A1S55B  5 stots, power supply module not required, for QnAS/AnS series modules  A1S55B  5 stots, power supply module not required, for QnAS/AnS series modules  A1S52B  2 stots, power supply module not required, for QnAS/AnS series modules  A1S52B  2 stots, power supply module not required, for QnAS/AnS series modules  A1S52B  3 stots, power supply module required, for QnAS/AnS series modules  A1S52B  5 stots, power supply module required, for QnAS/AnS series modules  A1S52B  5 stots, power supply module required, for QnAS/AnS series modules  A1S52B  5 stots, power supply module required, for QnAS/AnS series modules  A1S52B  7 sextension base connection, 0.05 m One cable per extension base required  A1SC01B  For extension base connection, 0.05 m One cable per extension base required  A1SC01B  For extension base connection, 0.7 m One cable per extension base required  A1SC07B  For extension base connection, 1.2 m One cable per extension base required  A1SC08B  For extension base connection, 0.7 m One cable per extension base required  A1SC08B  For extension base connection, 0.7 m One cable per extension base required  A1SC08B  For extension base connection, 0.7 m One cable per extension base required  A1SC08B  For extension base connection, 0.7 m One cable per extension base required  A1SC08B  For extension base connection, 0.7 m	CPU		A2SHCPU	
AZUSHOPU-S1         basic instruction processing speed (LD instruction): 0.09 μs, built-in RAM memory capacity: 256 KB           A 1838B         8 slots, power supply module required, for QnAS/AnS Series modules           A 1838B         5 slots, power supply module required, for QnAS/AnS Series modules           A 1833B         3 slots, power supply module required, for QnAS/AnS Series modules           A 1832B         2 slots, power supply module required, for QnAS/AnS Series modules           A 1855B         8 slots, power supply module not required, for QnAS/AnS series modules           A 1852B         2 slots, power supply module not required, for QnAS/AnS series modules           A 1852B         2 slots, power supply module required, for QnAS/AnS series modules           A 1852B         2 slots, power supply module required, for QnAS/AnS series modules           A 1852B         2 slots, power supply module required, for QnAS/AnS series modules           A 1868B         8 slots, power supply module required, for QnAS/AnS series modules           A 1868B         8 slots, power supply module required, for QnAS/AnS series modules           A 1868B         8 slots, power supply module required, for QnAS/AnS series modules           A 1868B         8 slots, power supply module required, for QnAS/AnS series modules           A 1868B         8 slots, power supply module required, for QnAS/AnS series modules           A 1868B         6 slots, power supply			A2USCPU	
Hain base  A1S35B  A1S33B  A1S33B  A1S33B  A1S32B  A1S33B  A1S32B  A1S32B  A1S32B  A1S58B  A1S68B  A1S68B  A1S68B  A1S68B  A1S68B  A1S68B  A1S60B  A1S60B  For extension base required, for QnAS/AnS series modules  A1S601B  For extension base horizontal connection, 0.058 m *One cable per extension base required  A1SC03B  For extension base connection, 0.7 m *One cable per extension base required  A1SC30B  A1SC0B  For extension base connection, 3 m *One cable per extension base required  A1SC30B  A1SC60B  For extension base connection, 3 m *One cable per extension base required  A1SC60B  For extension base connection, 3 m *One cable per extension base required  A1SC60B  For extension base connection, 3 m *One cable per extension base required  A1SC60B  For extension base connection, 3 m *One cable per extension base required  A1SC60B  For extension base connection, 3 m *One cable per extension base required  A1SC60B  For extension base connection, 6 m *One cable per extension base required  A1SC60B  For extension base connection, 6 m *One cable per extension base required  A1SC60B  For extension base connection, 6 m *One cable per extension base required  A1SC60B  For extension base connection, 6 m *One cable per extension base required  A1SC60B  For extension base connection, 6 m *One cable per extension base required  A1SC60B  For extension base connection, 6 m *One cable per extension base required  A1SC60B  For extension base connection, 6 m *One cable per extension base required  A1SC60B  For extension base connection, 6 m *One cable per extension base required  A1SC60B  For extension base connection, 6 m *One cable per extension base required  A1SC60B  For extension base connection, 6 m *One cable per extension base required  A1SC60B  A1SC60			A2USHCPU-S1	
Main base			A1S38B	8 slots, power supply module required, for QnAS/AnS Series modules
A1S33B 3 slots, power supply module required, for QnAS/AnS Series modules  A1S32B 2 slots, power supply module required, for QnAS/AnS Series modules  A1S58B 8 slots, power supply module not required, for QnAS/AnS series modules  A1S55B 5 slots, power supply module not required, for QnAS/AnS series modules  A1S52B 2 slots, power supply module not required, for QnAS/AnS series modules  A1S68B 8 slots, power supply module required, for QnAS/AnS series modules  A1S65B 5 slots, power supply module required, for QnAS/AnS series modules  A1S65B 5 slots, power supply module required, for QnAS/AnS series modules  A1S65B 6 slots, power supply module required, for QnAS/AnS series modules  A1S65B 7 servension base horizontal connection, 0.055 m * One cable per extension base required  A1SC01B For extension base connection, 0.055 m * One cable per extension base required  A1SC03B 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, 6 m * One cable per extension base required  A1SC60B For extension base connection, 6 m * One cable per extension base required  A1SC60B For extension base connection, 6 m * One cable per extension base required  A1SC60B For extension base connection, 6 m * One cable per extension base required  A1SC60B For extension base connection, 6 m * One cable per extension base required  A1SC60B For extension base connection, 6 m * One cable per extension base required  A1SC60B For extension base connection, 6 m * One cable per extension base required  A1SC60B For extension base connection, 6 m * One cable per extension base required  A1SC60B For extension base connection, 6 m * One cable per extension base required  A1SC60B For extension base connection, 6 m * One cable per extension base required  A1SC60B For extension base connection, 6 m * One cable per extension base required  A1SC60B For extension base connection, 9 m * One cable per extension base requ			A1S35B	5 slots, power supply module required, for QnAS/AnS Series modules
Base    Base   Extension base   A1558B   A1558B   A1558B   A1555B   A1556B   A1565B   A1565B		Main base	A1S33B	3 slots, power supply module required, for QnAS/AnS Series modules
Extension base  Base  Extension base  A1S55B			A1S32B	2 slots, power supply module required, for QnAS/AnS Series modules
Extension base  A1S52B			A1S58B	8 slots, power supply module not required, for QnAS/AnS series modules
Base Base    Base			A1S55B	5 slots, power supply module not required, for QnAS/AnS series modules
Base  A1S68B 8 slots, power supply module required, for QnAS/AnS Series modules  A1S65B 5 slots, power supply module required, for QnAS/AnS Series modules  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  A1SC60B For extension base connection, 3 m * One cable per extension base required  A1SC60B For extension base connection, 6 m * One cable per extension base required  A1SC60B Blank cover for I/O slot  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: 8 k steps, EEPROM cassette (exclusively for A1S, A1SH, A1SJ, and A1SJH)  A1SNMCA-8KP Program capacity: 8 k steps, EEPROM cassette (exclusively for A1S, A1SH, A1SJ, and A1SJH)			A1S52B	2 slots, power supply module not required, for QnAS/AnS series modules
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, 0.7 m * One cable per extension base required  A1SC30B 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  A1SC60B For extension base connection, 6 m * One cable per extension base required  A1SC60B For extension base connection, 6 m * One cable per extension base required  A1SC60B For extension base connection, 6 m * One cable per extension base required  A1SC60B For extension base connection, 6 m * One cable per extension base required  A1SC60B For extension base connection, 3 m * One cable per extension base required  A1SC60B For extension base connection, 3 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extensio		base	A1S68B	8 slots, power supply module required, for QnAS/AnS Series modules
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, 0.7 m * One cable per extension base required  A1SC30B 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  A1SC60B For extension base connection, 6 m * One cable per extension base required  A1SC60B For extension base connection, 6 m * One cable per extension base required  A1SC60B For extension base connection, 6 m * One cable per extension base required  A1SC60B For extension base connection, 6 m * One cable per extension base required  A1SC60B For extension base connection, 6 m * One cable per extension base required  A1SC60B For extension base connection, 3 m * One cable per extension base required  A1SC60B For extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m * One cable per extension base required  A1SC60B For extension base connection, 0.7 m	Base		A1S65B	5 slots, power supply module required, for QnAS/AnS Series modules
Extension cable  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  A1SC60B For extension base connection, 3 m * One cable per extension base required  A1SC60B For extension base connection, 6 m * One cable per extension base required  A1SC60B Blank cover A1SC60B For extension base connection, 6 m * One cable per extension base required  A1SC60B Blank cover for I/O slot  A1SC61PN Input voltage range: 100 to 240 V AC, output voltage: 5 V DC, output current: 5 A  A1SC62PN Input voltage range: 24 V DC, output voltage: 5/24 V DC, output current: 3/0.6 A  A1SC63P 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)  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)			A1SC01B	For extension base horizontal connection, 0.055 m * One cable per extension base required
Cable  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 A1SC60B For extension base connection, 6 m * One cable per extension base required A1SC60B Blank cover A1SC60B For extension base connection, 6 m * One cable per extension base required Blank cover A1SC60B Blank cover for I/O slot  A1SC60B Blank cover for I/O slot  Input voltage range: 100 to 240 V AC, output voltage: 5 V DC, output current: 5 A  A1SC62PN Input voltage range: 100 to 240 V AC, output voltage: 5/24 V DC, output current: 3/0.6 A  A1SC63P 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)  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)			A1SC03B	For extension base connection, 0.3 m * One cable per extension base required
A1SC30B For extension base connection, 3 m * One cable per extension base required  A1SC60B For extension base connection, 6 m * One cable per extension base required  A1SC60B Blank cover for I/O slot  A1SG60 Blank cover for I/O slot  A1SG1PN Input voltage range: 100 to 240 V AC, output voltage: 5 V DC, output current: 5 A  A1SG2PN Input voltage range: 100 to 240 V AC, output voltage: 5/24 V DC, output current: 3/0.6 A  A1SG3P 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)  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)		Extension	A1SC07B	For extension base connection, 0.7 m * One cable per extension base required
A1SC60B For extension base connection, 6 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  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)  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)		cable	A1SC12B	For extension base connection, 1.2 m * One cable per extension base required
Blank cover A1SG60 Blank cover for I/O slot  Power supply A1SG1PN Input voltage range: 100 to 240 V AC, output voltage: 5 V DC, output current: 5 A  A1SG2PN Input voltage range: 100 to 240 V AC, output voltage: 5/24 V DC, output current: 3/0.6 A  A1SG3P 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)  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)			A1SC30B	For extension base connection, 3 m * One cable per extension base required
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)  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)			A1SC60B	For extension base connection, 6 m * One cable per extension base required
Power supply  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)  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)		Blank cover	A1SG60	Blank cover for I/O slot
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)  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)			A1S61PN	Input voltage range: 100 to 240 V AC, 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)  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)	Power sup	oply	A1S62PN	Input voltage range: 100 to 240 V AC, output voltage: 5/24 V DC, output current: 3/0.6 A
Memory cassette  A1SNMCA-2KE Program capacity: 2 k steps, EEPROM cassette (exclusively for A1S, A1SH, A1SJ, and A1SJH)  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)			A1S63P	Input voltage range: 24 V DC, output voltage: 5 V DC, output current: 5 A
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)	Battery		A6BAT	For IC-RAM memory/A7HGP CMOS back-up
Memory cassette  A1SNMCA-8KP Program capacity: 8 k steps, EPROM cassette (exclusively for A1S, A1SH, A1SJ, and A1SJH)			A1SNMCA-2KE	Program capacity: 2 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)	Momore	assatta	A1SNMCA-8KE	Program capacity: 8 k steps, EEPROM 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)	iviernory c	asselle	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

#### I/O module

ı	Product	Model	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
	40100	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
	AC200	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 AC/24 V AC/12 V DC/24 V DC, 4.2 mA (12 V AC, 12 V DC)/8.6 mA (24 V AC, 24 V DC), response time: 2.5 ms, 16 points/common, 20-point terminal block

# AnS

#### I/O module

i	Product	Model	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
	<b>T</b> .	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
		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
	Transistor (Sink)	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
		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
	DC/transistor	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
1/0	DO/(lansistor	A1SH42P	Input: 32 points, 12/24 V DC, 2/5 mA, response time: 10 ms, 32 points/common, positive common; output: 32 points, 12/24 V DC leakage at OFF: 0.1 mA, response time: 1 ms, 32 points/common, sink type, with thermal/short-circuit protection and surge suppressor; 40-pin connector
I/O		A1SH42P-S1	Input: 32 points, 24 V DC, 5 mA, response time: 0.3 ms, 32 points/common, positive common, high-speed input; output: 32 points, 12/24 V DC leakage at OFF: 0.1 mA, response time: 1 ms, 32 points/common, sink type, with thermal/short-circuit protection 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
	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
		A6CON1	40-pin connector, soldering type
		A6CON2	40-pin connector, crimp-contact type
		A6CON3	40-pin connector, IDC for flat cables
Connecto	r	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



### AnS

#### I/O module

Pr	roduct	Model	Outline
		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	n 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 block	Cable	AC80TB	For A6TBXY36, A6TBXY54, A6TBX70 (for positive common / sink type); 8 m *Common power supply 0.5 A or lower
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
		AC10TB-E	For A6TBX36-E, A6TBX36-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, A6TBX36-E, A6TBX54-E, A6TBY54-E, A6TBX70-E (for negative common / source type); 5 m
Relay term	ninal 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
	AnS	A1S-TA32	32-point IDC terminal block adapter, 0.5 mm <sup>2</sup> (AWG20)
Conversion	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

#### Analog I/O module

Product		Model	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 l l/G		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 $\mu$ s/2 channels (analog output); 20-point terminal block
_	Platinum	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	RTD	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	re 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 x/4 channels (standard control), 0.5 s/2 channels, (heating-cooling control); 20-point terminal block
Temperature control		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

### AnS

#### Pulse I/O and positioning module

Product		Model	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 collector	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
	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
Positioning		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
		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
		AD75C20SJ2	Cable for connecting AD75P□/A1SD75P□ positioning module and MR-J2□A, 2 m
	Cable	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
Position de	etection	A1S62LS	No. of position detection axes: 1, resolution: 4096 × 32 rotations to 409.6 × 320 rotations, no. of output channels: 16
Information	n module		
Ethernet		A1SJ71E71N3-T	10BASE-T
		A1SJ71UC24-R2	RS-232: 1 channel, transmission speed: 0.3 to 19.2 kbps, computer link function
Computer	link	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 of	communication	SW□IVD-AD51HP	Software package for QD51H, AD51H-S3, A1SD51S
Programmal fault detection	ble controller on	A1SS91	Programmable controller fault detection module, RUN output: 1 point, Error output: 1 point, General-purpose output: 3 points
Control ne	twork module		
P	roduct	Model	Outline
CC-Link		A1SJ61BT11	Master/local station, for AnSCPU
AS-i			
		A1SJ71AS92	AS-i system master module
	SI/QSI optical cable	A1SJ71AS92 A1SJ72QLP25	AS-i system master module SI/QSI/H-PCF/broadband H-PCF optical cable, double loop, remote I/O network (remote I/O station)
	SI/QSI optical cable Coaxial cable	A1SJ72QLP25	SI/QSI/H-PCF/broadband H-PCF optical cable, double loop, remote I/O network (remote I/O station)
MELSEC		A1SJ72QLP25 A1SJ72QLR25	SI/QSI/H-PCF/broadband H-PCF optical cable, double loop, remote I/O network (remote I/O station)  3C-2V/5C-2V coaxial cable, double loop, remote I/O network (remote I/O station)
MELSEC NET/10	Coaxial cable SI/QSI optical cable	A1SJ72QLP25 A1SJ72QLR25 A1SJ72QBR15	SI/QSI/H-PCF/broadband H-PCF optical cable, double loop, remote I/O network (remote I/O station)  3C-2V/5C-2V coaxial cable, double loop, remote I/O network (remote I/O station)  3C-2V/5C-2V coaxial cable, single bus, remote I/O network (remote I/O station)  SI/QSI/H-PCF/broadband H-PCF optical cable, double loop, PLC-to-PLC network (control/normal station)/remote I/O
	Coaxial cable	A1SJ72QLP25 A1SJ72QLR25 A1SJ72QBR15 A1SJ71LP21	SI/QSI/H-PCF/broadband H-PCF optical cable, double loop, remote I/O network (remote I/O station)  3C-2V/5C-2V coaxial cable, double loop, remote I/O network (remote I/O station)  3C-2V/5C-2V coaxial cable, single bus, remote I/O network (remote I/O station)  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)  3C-2V/5C-2V coaxial cable, double loop, PLC-to-PLC network (control/normal station)/remote I/O network (remote I/O network
NET/10	Coaxial cable  SI/QSI optical cable  Coaxial cable	A1SJ72QLP25 A1SJ72QLR25 A1SJ72QBR15 A1SJ71LP21 A1SJ71LR21	SI/QSI/H-PCF/broadband H-PCF optical cable, double loop, remote I/O network (remote I/O station)  3C-2V/5C-2V coaxial cable, double loop, remote I/O network (remote I/O station)  3C-2V/5C-2V coaxial cable, single bus, remote I/O network (remote I/O station)  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)  3C-2V/5C-2V coaxial cable, double loop, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station)  3C-2V/5C-2V coaxial cable, single bus, PLC-to-PLC network (control/normal station)/remote I/O network (remote
	Coaxial cable  SI/QSI optical cable  Coaxial cable	A1SJ72QLP25 A1SJ72QLR25 A1SJ72QBR15 A1SJ71LP21 A1SJ71LR21 A1SJ71BR11	SI/QSI/H-PCF/broadband H-PCF optical cable, double loop, remote I/O network (remote I/O station)  3C-2V/5C-2V coaxial cable, double loop, remote I/O network (remote I/O station)  3C-2V/5C-2V coaxial cable, single bus, remote I/O network (remote I/O station)  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)  3C-2V/5C-2V coaxial cable, double loop, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station)  3C-2V/5C-2V coaxial cable, single bus, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station)
NET/10	Coaxial cable SI/QSI optical cable Coaxial cable	A1SJ72QLP25 A1SJ72QLR25 A1SJ72QBR15 A1SJ71LP21 A1SJ71LR21 A1SJ71BR11 A1SJ71AP21	SI/QSI/H-PCF/broadband H-PCF optical cable, double loop, remote I/O network (remote I/O station)  3C-2V/5C-2V coaxial cable, double loop, remote I/O network (remote I/O station)  3C-2V/5C-2V coaxial cable, single bus, remote I/O network (remote I/O station)  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)  3C-2V/5C-2V coaxial cable, double loop, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station)  3C-2V/5C-2V coaxial cable, single bus, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station)  SI-200/250 optical cable, double loop, MELSECNET(II) master/local station
NET/10	Coaxial cable SI/QSI optical cable  Coaxial cable	A1SJ72QLP25 A1SJ72QLR25 A1SJ72QBR15 A1SJ71LP21 A1SJ71LR21 A1SJ71BR11 A1SJ71AP21 A1SJ71AR21	SI/QSI/H-PCF/broadband H-PCF optical cable, double loop, remote I/O network (remote I/O station)  3C-2V/5C-2V coaxial cable, double loop, remote I/O network (remote I/O station)  3C-2V/5C-2V coaxial cable, single bus, remote I/O network (remote I/O station)  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)  3C-2V/5C-2V coaxial cable, double loop, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station)  3C-2V/5C-2V coaxial cable, single bus, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station)  SI-200/250 optical cable, double loop, MELSECNET(II) master/local station  3C-2V/5C-2V coaxial cable, double, loop MELSECNET(II) master/local station
MELSECN MELSECN MELSEC-I	Coaxial cable  SI/QSI optical cable  Coaxial cable  IET(II)  IET/B  I/O Link	A1SJ72QLP25 A1SJ72QLR25 A1SJ72QBR15 A1SJ71LP21 A1SJ71LR21 A1SJ71BR11 A1SJ71AP21 A1SJ71AR21 A1SJ71AR21 A1SJ71AR21	SI/QSI/H-PCF/broadband H-PCF optical cable, double loop, remote I/O network (remote I/O station)  3C-2V/5C-2V coaxial cable, double loop, remote I/O network (remote I/O station)  3C-2V/5C-2V coaxial cable, single bus, remote I/O network (remote I/O station)  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)  3C-2V/5C-2V coaxial cable, double loop, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station)  3C-2V/5C-2V coaxial cable, single bus, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station)  SI-200/250 optical cable, double loop, MELSECNET(II) master/local station  Twisted pair cable, single bus, MELSECNET/B (master/local station)
MELSECN	Coaxial cable  SI/QSI optical cable  Coaxial cable  IET(II)  IET/B  I/O Link	A1SJ72QLP25 A1SJ72QLR25 A1SJ72QBR15 A1SJ71LP21 A1SJ71LR21 A1SJ71BR11 A1SJ71AP21 A1SJ71AR21 A1SJ71AR21 A1SJ71AR21	SI/QSI/H-PCF/broadband H-PCF optical cable, double loop, remote I/O network (remote I/O station)  3C-2V/5C-2V coaxial cable, double loop, remote I/O network (remote I/O station)  3C-2V/5C-2V coaxial cable, single bus, remote I/O network (remote I/O station)  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)  3C-2V/5C-2V coaxial cable, double loop, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station)  3C-2V/5C-2V coaxial cable, single bus, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station)  SI-200/250 optical cable, double loop, MELSECNET(II) master/local station  Twisted pair cable, single bus, MELSECNET/B (master/local station)
MELSECN MELSEC-I MELSEC-I Peripheral ROM writer module	Coaxial cable  SI/QSI optical cable  Coaxial cable  IET(II)  IET/B  I/O Link  devices  EPROM  write adapter	A1SJ72QLP25 A1SJ72QLR25 A1SJ72QBR15 A1SJ71LP21 A1SJ71LR21 A1SJ71BR11 A1SJ71AP21 A1SJ71AR21 A1SJ71AT21B A1SJ51T64	SI/QSI/H-PCF/broadband H-PCF optical cable, double loop, remote I/O network (remote I/O station)  3C-2V/5C-2V coaxial cable, double loop, remote I/O network (remote I/O station)  3C-2V/5C-2V coaxial cable, single bus, remote I/O network (remote I/O station)  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)  3C-2V/5C-2V coaxial cable, double loop, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station)  3C-2V/5C-2V coaxial cable, single bus, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station)  SI-200/250 optical cable, double loop, MELSECNET(II) master/local station  3C-2V/5C-2V coaxial cable, double, loop MELSECNET(II) master/local station  Twisted pair/cab-tire cable, single bus, MELSEC-I/O Link (master module)
MELSECN MELSEC-I Peripheral ROM writer	Coaxial cable SI/QSI optical cable Coaxial cable IET(II) IET/B I/O Link devices EPROM	A1SJ72QLP25 A1SJ72QLR25 A1SJ72QBR15 A1SJ71LP21 A1SJ71LR21 A1SJ71BR11 A1SJ71AP21 A1SJ71AR21 A1SJ71AT21B A1SJ71AT21B A1SJ51T64	SI/QSI/H-PCF/broadband H-PCF optical cable, double loop, remote I/O network (remote I/O station)  3C-2V/5C-2V coaxial cable, double loop, remote I/O network (remote I/O station)  3C-2V/5C-2V coaxial cable, single bus, remote I/O network (remote I/O station)  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)  3C-2V/5C-2V coaxial cable, double loop, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station)  3C-2V/5C-2V coaxial cable, single bus, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station)  SI-200/250 optical cable, double loop, MELSECNET(II) master/local station  3C-2V/5C-2V coaxial cable, double, loop MELSECNET(II) master/local station  Twisted pair cable, single bus, MELSECNET/B (master/local station)  Twisted pair/cab-tire cable, single bus, MELSEC-I/O Link (master module)
MELSECN MELSEC-I MELSEC-I Peripheral ROM writer module Programming module	Coaxial cable  SI/QSI optical cable  Coaxial cable  IET(II)  IET/B  I/O Link  devices  EPROM  write adapter	A1SJ72QLP25 A1SJ72QLR25 A1SJ72QBR15 A1SJ71LP21 A1SJ71LR21 A1SJ71BR11 A1SJ71AP21 A1SJ71AP21 A1SJ71AP21 A1SJ71AF21 A1SJ71AF21 A1SJ71AF21 A1SJ71AF21 A1SJ71AF21	SI/QSI/H-PCF/broadband H-PCF optical cable, double loop, remote I/O network (remote I/O station)  3C-2V/5C-2V coaxial cable, double loop, remote I/O network (remote I/O station)  3C-2V/5C-2V coaxial cable, single bus, remote I/O network (remote I/O station)  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)  3C-2V/5C-2V coaxial cable, double loop, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station)  3C-2V/5C-2V coaxial cable, single bus, PLC-to-PLC network (control/normal station)/remote I/O network (remote master station)  SI-200/250 optical cable, double loop, MELSECNET(II) master/local station  3C-2V/5C-2V coaxial cable, double, loop MELSECNET(II) master/local station  Twisted pair cable, single bus, MELSECNET/B (master/local station)  Twisted pair/cab-tire cable, single bus, MELSEC-I/O Link (master module)  Write adapter for EPROM 28-pin  Cable for connecting CPU and A7PU/A7HGP/A6GPP, 3 m *A7HGP-SET/A6GPP-SET provided

LCD: 16 characters x 2 rows, for data access (CPU operation status, device monitoring/changes)



External display

A6DU-B



### **Peripheral Devices**

Product	Model	Outline	
Printer cable	AC30R2	RS-232C connection cable between A6GPP and printer, 3 m	
Floppy disk	SW□-USER	1.4 MB (2HD) MS-DOS formatted	

#### **MELSOFT**

#### **MELSOFT GX Series**

CV Davidenar	SW□D5C-GPPW-E	MELSEC programmable controller programming software	
GX Developer	SW□D5C-GPPW-EV	MELSEC programmable controller programming software (Upgrade)	
GX Simulator	SW□D5C-LLT-E	MELSEC programmable controller simulation software	
GA Simulator	SW□D5C-LLT-EV	MELSEC programmable controller 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	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	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**

For	SW□IVD-MINIP-E	Software package for MELSECNET/MINI-S3
IBM Compatible	SW□IVD-AD71P	Software package for positioning
Personal computer	SW□IVD-AD75P-E	Positioning programming, for AD75

#### PC I/F Board

Product		Model	Outline
	CI/OCI anticol	Q80BD-J71LP21-25	PCI bus, Japanese/English OS compatible, SI/QSI optical cable, double loop, PLC-to-PLC network (control/normal station)
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 Q80		Q80BD-J61BT11N	PCI bus, Japanese/English OS compatible, for master/local station, CC-Link Ver.2 compatible

### **A-A1S Module Conversion Adapter**

Please refer to the MELSEC-A/QnA Series Transition Guide L(NA)08077 for details.

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\*1

Please refer to the MELSEC-A/QnA Series Transition Guide L(NA)08077 for details.

For MELSECNET (II)-	Q6KT-NETGW-SS	A set of A1S35B, A1S61PN, Q2ASCPU, A1SJ71AP21, A1SJ71QLP21
MELSECNET/10	Q6KT-NETGW-RS	A set of A1S35B, A1S61PN, Q2ASCPU, A1SJ71AR21, A1SJ71QLP21
gateway	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

### MELSECNET(II), MELSECNET/B Local Station Data Link Module

Please refer to the MELSEC-A/QnA Series Transition Guide L(NA)08077 for details.

(1)(2)

MELSECNET(II),	A1SJ71AP23Q	MELSECNET (II) local station data link module for SI optical cable
MELSECNET/B local station	A1SJ71AR23Q	MELSECNET (II) local station data link module for coaxial cable
data link module	A1SJ71AT23BQ	MELSECNET/B local station data link module for shielded twisted pair cable



<sup>\*1</sup> Model name reading method Q6KT-NETGW- (1) Network type: MELSECNET (II) S: SI optical cable (Double loop)

R: Coaxial cable (Double loop)
T: Twisted pair cable (Bus)

MEMO






#### Precautions before use

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



#### for safe use

- To use the products given in this publication properly, always read the relevant manuals before beginning operation.
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- Before using the products for special purposes such as nuclear power, electric power, aerospace, medicine or passenger-carrying vehicles, consult with Mitsubishi
- $\bullet$  The products have been manufactured under strict quality control. However, when installing the products where major accidents or losses could occur if the products fail, install appropriate backup or fail-safe functions in the system.

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