



I/O module

Type	Model	Outline	
Connector	A6CON1	32-point connector soldering type (40-pin connector)	
	A6CON2	32-point connector crimp-contact type (40-pin connector)	
	A6CON3	32-point connector pressure-displacement (flat cable) type (40-pin connector)	
	A6CON4	32-point connector soldering type (40-pin connector, cable connectable in bidirection)	
	A6CON1E	32-point connector soldering type (37-pin D-sub connector)	
	A6CON2E	32-point connector crimp-contact type (37-pin D-sub connector)	
	A6CON3E	32-point connector pressure-displacement (flat cable) type (37-pin D-sub connector)	
Spring clamp terminal block	Q6TE-18SN	For 16-point I/O modules, 0.3...1.5 mm ² (22...16 AWG)	
Terminal block adapter	Q6TA32	For 32-point I/O modules, 0.5 mm ² (20 AWG)	
	Q6TA32-TOL	Q6TA32 dedicated tool	
Connector/terminal block conversion module	A6TBXY36	For positive common input modules and sink output modules (standard type)	
	A6TBXY54	For positive common input modules and sink output modules (2-wire type)	
	A6TBX70	For positive common input modules (3-wire type)	
	A6TBX36-E	For negative common input modules (standard type)	
	A6TBX54-E	For negative common input modules (2-wire type)	
	A6TBX70-E	For negative common input modules (3-wire type)	
	A6TBY36-E	For source output modules (standard type)	
	A6TBY54-E	For source output modules (2-wire type)	
	Cable	AC05TB	For A6TBXY36, A6TBXY54, and A6TBX70 (positive common/sink type), 0.5 m
		AC10TB	For A6TBXY36, A6TBXY54, and A6TBX70 (positive common/sink type), 1 m
		AC20TB	For A6TBXY36, A6TBXY54, and A6TBX70 (positive common/sink type), 2 m
		AC30TB	For A6TBXY36, A6TBXY54, and A6TBX70 (positive common/sink type), 3 m
		AC50TB	For A6TBXY36, A6TBXY54, and A6TBX70 (positive common/sink type), 5 m
		AC80TB	For A6TBXY36, A6TBXY54, and A6TBX70 (positive common/sink type), 8 m *Common current 0.5 A or lower
		AC100TB	For A6TBXY36, A6TBXY54, and A6TBX70 (positive common/sink type), 10 m *Common current 0.5 A or lower
		AC05TB-E	For A6TBX36-E, A6TBY36-E, A6TBX54-E, A6TBY54-E, and A6TBX70-E (negative common/source type), 0.5 m
		AC10TB-E	For A6TBX36-E, A6TBY36-E, A6TBX54-E, A6TBY54-E, and A6TBX70-E (negative common/source type), 1 m
		AC20TB-E	For A6TBX36-E, A6TBY36-E, A6TBX54-E, A6TBY54-E, and A6TBX70-E (negative common/source type), 2 m
		AC30TB-E	For A6TBX36-E, A6TBY36-E, A6TBX54-E, A6TBY54-E, and A6TBX70-E (negative common/source type), 3 m
		AC50TB-E	For A6TBX36-E, A6TBY36-E, A6TBX54-E, A6TBY54-E, and A6TBX70-E (negative common/source type), 5 m
Relay terminal module	A6TE2-16SRN	For 40-pin connector 24 V DC transistor output modules (sink type)	
Cable	AC06TE	For A6TE2-16SRN, 0.6 m	
	AC10TE	For A6TE2-16SRN, 1 m	
	AC30TE	For A6TE2-16SRN, 3 m	
	AC50TE	For A6TE2-16SRN, 5 m	
	AC100TE	For A6TE2-16SRN, 10 m	

Analog I/O module

Analog input	Voltage input	Q68ADV	8 channels, input: -10...10 V DC, output (resolution): 0...4000, -4000...4000, 0...12000, -12000...12000, 0...16000, -16000...16000, conversion speed: 80 µs/channel, 18-point terminal block
		Current input	Q62AD-DGH
	Q66AD-DG*1		6 channels, input: 4...20 mA DC (when 2-wire transmitter is connected), 0...20 mA DC, output (resolution): 0...4000, 0...12000, conversion speed: 10 ms/channel, 40-pin connector, channel isolated, supplies power to 2-wire transmitter
	Q68ADI		8 channels, input: 0...20 mA DC, output (resolution): 0...4000, -4000...4000, 0...12000, -12000...12000, 0...16000, -16000...16000, conversion speed: 80 µs/channel, 18-point terminal block
	Voltage/current input	Q64AD	4 channels; input -10...10 V DC, 0...20 mA DC, output (resolution): 0...4000, -4000...4000, 0...12000, -12000...12000, 0...16000, -16000...16000, conversion speed: 80 µs/channel, 18-point terminal block
		Q64ADH	4 channels; input -10...10 V DC, 0...20 mA DC, output (resolution): 0...20000, -20000...20000, -5000...22500, conversion speed: 20 µs/channel, 18-point terminal block
		Q64AD-GH	4 channels, input: -10...10 V DC, 0...20 mA DC, output (resolution): 0...32000, -32000...32000, 0...64000, -64000...64000, conversion speed: 10 ms/4 channels, 18-point terminal block, channel isolated
		Q68AD-G*1	8 channels, input: -10...10 V DC, 0...20 mA DC, output (resolution): 0...4000, -4000...4000, 0...12000, -12000...12000, 0...16000, -16000...16000, conversion speed: 10 ms/channel, 40-pin connector, channel isolated

*1: A connector is not provided. The A6CON4 connector must be ordered separately.

Analog I/O module

Type		Model	Outline
Analog output	Voltage output	Q68DAVN	8 channels, input (resolution): 0...4000, -4000...4000, 0...12000, -12000...12000, -16000...16000, output: -10...10 V DC, conversion speed: 80 µs/channel, 18-point terminal block
	Current output	Q68DAIN	8 channels, input (resolution): 0...4000, -4000...4000, 0...12000, -12000...12000; output: 0...20 mA DC, conversion speed: 80 µs/channel, 18-point terminal block
	Voltage/current output	Q64DAH	4 channels, input (resolution): 0...20000, -20000...20000 output: -10...10 V DC, 0...20 mA DC, conversion speed: 20 µs/channel, 18-point terminal block
		Q62DAN	2 channels, input (resolution): 0...4000, -4000...4000, 0...12000, -12000...12000, -16000...16000, output: -10...10 V DC, 0...20 mA DC, conversion speed: 80 µs/channel, 18-point terminal block
		Q62DA-FG	2 channels, input (resolution): 0...12000, -12000...12000, -16000...16000, output: -12...12 V DC, 0...22 mA DC, conversion speed: 10 ms/2 channels, 18-point terminal block, channel isolated
		Q64DAN	4 channels, input (resolution): 0...4000, -4000...4000, 0...12000, -12000...12000, -16000...16000, output: -10...10 V DC, 0...20 mA DC, conversion speed: 80 µs/channel, 18-point terminal block
		Q66DA-G ^{*1}	6 channels, input (resolution): 0...4000, -4000...4000, 0...12000, -12000...12000, -16000...16000, output: -12...12 V DC, 0...22 mA DC, conversion speed: 6 ms/channel, 40-pin connector, channel isolated
Analog input/output	Voltage and current input/output	Q64AD2DA	Input: 4 channels, input: -10...10 V DC, 0...20 mA DC » output (resolution): 0...4000, -4000...4000, 0...12000, 0...16000, -16000...16000 » conversion speed: 500 µs/channel output: 2 channels input (resolution): 0...4000, -4000...4000, 0...12000, -16000...16000 » output: -10...10 V DC, 0...20 mA DC » conversion speed: 500 µs/channel 18-point terminal block
Load cell input	Q61LD	1 channel, input (load cell output): 0.0...3.3 mV/V, output (resolution): 0...10000, conversion speed: 10 ms, 18-point terminal block	
CT input module	Q68CT	8 channels, input: CT 0...5 A AC, 0...50 A AC, 0...100 A AC, 0...200 A AC, 0...400 A AC, 0...600 A AC, output: 0...10000, 18-point terminal block	
Temperature input	Thermocouple	Q64TD	4 channels, thermocouple (B, R, S, K, E, J, T, N), disconnection detection function, conversion speed: 40 ms/channel, channel isolated, 18-point terminal block
		Q64TDV-GH	4 channels, thermocouple (B, R, S, K, E, J, T, N), disconnection detection function, conversion speed: sampling cycle × 3, sampling cycle: 20 ms/channel, channel isolated, 18-point terminal block
		Q68TD-G-H01 ^{*1*2}	8 channels, thermocouple (B, R, S, K, E, J, T, N), disconnection detection function, conversion speed: 320 ms/8 channels, channel isolated, 40-pin connector
		Q68TD-G-H02 ^{*1}	8 channels, thermocouple (B, R, S, K, E, J, T, N), disconnection detection function, conversion speed: 640 ms/8 channels, channel isolated, 40-pin connector
	RTD	Q64RD	4 channels, platinum RTD (Pt100, JPt100), disconnection detection function, conversion speed: 40 ms/channel, 18-point terminal block
		Q64RD-G	4 channels, platinum RTD (Pt100, JPt100), nickel RTD (Ni100), disconnection detection function, conversion speed: 40 ms/channel, channel isolated, 18-point terminal block
		Q68RD3-G ^{*1}	8 channels, platinum RTD (Pt100, JPt100), nickel RTD (Ni100), disconnection detection function, conversion speed: 320 ms/8 channels, channel isolated, 40-pin connector
Temperature control	Thermocouple	Q64TCTTN	4 channels, thermocouple (K, J, T, B, S, E, R, N, U, L, PL II, W5Re/W26Re), heating control/cooling control/heating-cooling control, sampling cycle: 500 ms/4 channels, channel isolated, 18-point terminal block
		Q64TCTTBWN	4 channels, thermocouple (K, J, T, B, S, E, R, N, U, L, PL II, W5Re/W26Re), heating control/cooling control/heating-cooling control, heater disconnection detection function, sampling cycle: 500 ms/4 channels, channel isolated, two 18-point terminal blocks
	RTD	Q64TCRTN	4 channels, platinum RTD (Pt100, JPt100), heating control/cooling control/heating-cooling control, sampling cycle: 500 ms/4 channels, channel isolated, 18-point terminal block
		Q64TCRTBWN	4 channels, platinum RTD (Pt100, JPt100), heating control/cooling control/heating-cooling control, heater disconnection detection function, sampling cycle: 500 ms/4 channels, channel isolated, two 18-point terminal blocks
Loop control	Q62HLC	2 channels, input: thermocouple/micro voltage/voltage/current, conversion speed (input): 25 ms/2 channels, sampling cycle: 25 ms/2 channels, output: 4...20 mA DC, conversion speed (output): 25 ms/2 channels, 18-point terminal block, with 5 PID control modes	

*1: A connector is not provided. The A6CON4 connector must be ordered separately.

*2: Depending on the combination of power source module and base unit, the installable slot position may be limited.