






Y301 Serial I/O Module Selection Guide

The Y301 series provides compact, industrial-grade serial I/O expansion modules for PLC integration, SCADA systems, and IoT edge deployments. All models share the same Modbus RTU firmware and support RS485 (standard), RS232, and TTL interface options.

At a Glance

	Model	I/O	Relay Rating	Dimensions	Local Rules
	Y301-110	1DI 1DO	125 VAC / 0.5 A	77 × 54 × 32 mm	Yes
	Y301-200	2DI	-	77 × 54 × 32 mm	Yes
	Y301-020	2DO	125 VAC / 0.5 A	77 × 54 × 32 mm	Yes
	Y301-220	2DI 2DO	277 VAC / 10 A	82 × 54 × 32 mm	4
	Y301-222	2DI 2DO 2AI	277 VAC / 10 A	82 × 54 × 32 mm	4

	Model	I/O	Relay Rating	Dimensions	Local Rules
	Y301-440	4DI 4DO	277 VAC / 10 A	115 × 90 × 40 mm	8
	Y301-444	4DI 4DO 4AI	277 VAC / 10 A	145 × 90 × 40 mm	8
	Y301-880	8DI 8DO	277 VAC / 10 A	145 × 90 × 40 mm	16

MiniLink Series (Y301-110/200/020)

Best for: Space-constrained installations, OEM equipment, and simple point I/O expansion.

Feature	Specification
I/O density	1-2 channels
Relay capacity	125 VAC / 0.5 A or 30 VDC / 2 A
Enclosure	77 × 54 × 32 mm
Power	5-36 VDC, 80 mA typical @ 12 V
Temperature	-40 to +85 C
Mounting	35 mm DIN rail or screw slots

ControlLink Series (Y301-220/222/440/444/880)

Best for: Building automation, process control, pump/valve management, and PLC expansion requiring high-power relay outputs.

Feature	Y301-220/222	Y301-440/444	Y301-880
I/O density	4 + 2 AI (222 only)	8 + 4 AI (444 only)	16
Relay capacity	277 VAC / 10 A	277 VAC / 10 A	277 VAC / 10 A
Enclosure	82 × 54 × 32 mm	115/145 × 90 × 40 mm	145 × 90 × 40 mm
Power	5-36 VDC, 150 mA typical	5-36 VDC, 200 mA typical	5-36 VDC, 260 mA typical
Temperature	-40 to +85 C	-40 to +85 C	-40 to +85 C
Local rules	Up to 4	Up to 8	Up to 16
Mounting	35 mm DIN rail or screw slots	35 mm DIN rail or screw slots	35 mm DIN rail or screw slots

Series Comparison

Criterion	MiniLink (110/200/020)	ControlLink (220-880)
Relay power	Low (0.5 A)	High (10 A)
Analog input	No	Yes (222/444)
Local automation	Basic rules	Up to 16 rules
DIP address offset	No	Yes
Output retention	No	Yes
Enclosure size	Ultra-compact	Compact to mid-size
Typical load	Signal, sensor, light	HVAC, pump, valve, motor

Documents

Model	Specification	User Manual	Technical Manual
Y301-110/200/020	Specification	User Manual	Technical Manual
Y301-220/222	Specification	User Manual	Technical Manual
Y301-440/444	Specification	User Manual	Technical Manual
Y301-880	Specification	User Manual	Technical Manual

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