

# A Series Remote I/O Modules

## USER GUIDE

A-1057/A-1058/A-1068/A-1069/A-1055/A-1055S/A-1051/A-1060

### OVERVIEW

- ▲ RS-485 Interface
- ▲ Supports Modbus RTU / ASCII
- ▲ LED Indicators
- ▲ Isolation voltage: 5000 V DC
- ▲ Wide operation temperature : -20 ~ +75 °C
- ▲ Dual watchdog timer
- ▲ Surge , EFT and ESD protection
- ▲ Free PC software “Yotta Utility”

### Technical specifications

Type	A-1057	A-1058	A-1068	A-1069	A-1051	A-1055	A-1055S	A-1060
Output	12	12	8	8	--	8	8	4
Input	--				16	8	8	8
Power Consumption	Nearly 24VDC 0.96W	Nearly 24VDC 0.96W	Nearly 24VDC 1.68W	Nearly 24VDC 2.88W	Nearly 24VDC 1.66W	Nearly 24VDC 1.28W	Nearly 24VDC 1.28W	Nearly 24VDC 2.26W
Input Power	+10 ~ +30 VDC							
Output Type	Source	Sink	Signal Relay	Power Relay	--	Sink	Source	Power Relay
Input Type	--				Isolated Digital			
Output Rating(max)	10 – 35 VDC/1A	40VDC /200mA	120VAC /0.5A 30VDC/1A	250VAC /5A 30VDC/1A	--	40VDC /200mA	10- 35VDC/1A	250VAC /5A 30VDC/1A
Input Rating (Isolation)	--				- Logic level 0: +1 V max. - Logic level 1: +3.5 ~ 30 V			
Isolation Voltage	5000 V DC							
LED	Yes							
Modbus Support	Modbus RTU + Modbus ASCII							
Watchdog Timer	System m & Comm.							

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	A-1057/58		A-1068/69			A-1057/58		A-1068		A-1069	
Item	Pin Assignment				Item	Pin Assignment					
1	DO7~9 COM		RL5 NO		14	DO0~2 COM		RL0 NO		RL0 NO	
2	DO7		RL5 COM		15	DO0		RL0 COM		RL0 COM	
3	DO8		RL5 NC		16	DO1		RL0 NC		NC	
4	DO9		RL6 NO		17	DO2		RL1 NO		RL1 NO	
5	DO7~0 GND		RL6 COM		18	DO0~2 GND		RL1 COM		RL1 COM	
6	DO10~11 COM		RL6 NC		19	DO3~4 COM		RL1 NC		NC	
7	DO10		RL7 NO		20	DO3		RL2 NO		RL2 NO	
8	DO11		RL7 COM		21	DO4		RL2 COM		RL2 COM	
9	DO10~11 GND		RL7 NC		22	DO3~4 GND		RL2 NC		RL3 NO	
10	(Y)DATA+		(Y)DATA+		23	DO5~6 COM		RL3 COM		RL3 COM	
11	(G)DATA-		(G)DATA-		24	DO5		RL3 NO		NC	
12	(R)+VS		(R)+VS		25	DO6		RL4 COM		RL4 NO	
13	(B)GND		(B)GND		26	DO5~6 GND		RL4 NO		RL4 COM	

	A-1051		A-1060/55/55S			A-1051		A-1060		A-1055/55S	
Item	Pin Assignment				Item	Pin Assignment					
1	DI9~11COM		DI0~71COM		14	DI0~2COM		RL0 NO		DO0~3COM	
2	DI9		DI0		15	DI0		RL0 COM		DO0	
3	DI10		DI1		16	DI1		RL0 NC		DO1	
4	DI11		DI2		17	DI2~3COM		RL1 NO		DO2	
5	DI12~15 COM		DI3		18	DI2		RL1 COM		DO3	
6	DI12		DI4		19	DI3		RL1 NC		DO0~3GND	
7	DI13		DI5		20	DI4~5COM		NC		NC	
8	DI14		DI6		21	DI4		RL2 NO		DO4~7COM	
9	DI15		DI7		22	DI5		RL2 COM		DO4	
10	(Y)DATA+		(Y)DATA+		23	DI6~8COM		RL2 NC		DO5	
11	(G)DATA-		(G)DATA-		24	DI6		RL3 NO		DO6	
12	(R)+VS		(R)+VS		25	DI7		RL3 COM		DO7	
13	(B)GND		(B)GND		26	DI8		RL3 NC		DO4~7GND	

