

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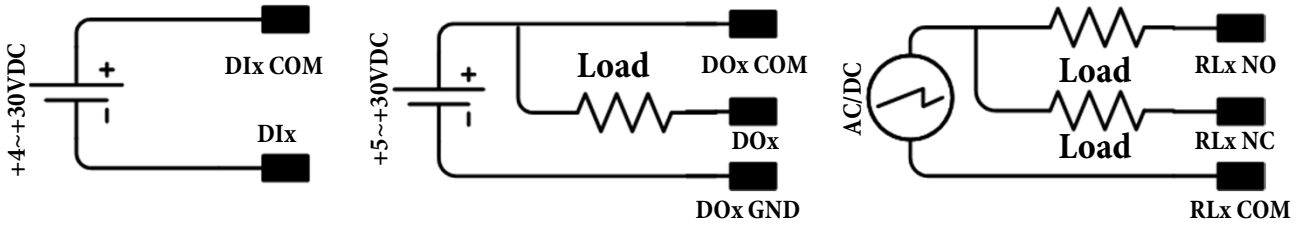
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A-1057/58			A-1068/69		
Item	Pin Assignment		Item	Pin Assignment	
1	DO7~9 COM	RL5 NO	14	DO0~2 COM	RL0 NO
2	DO7	RL5 COM	15	DO0	RL0 COM
3	DO8	RL5 NC	16	DO1	RL0 NC
4	DO9	RL6 NO	17	DO2	RL1 NO
5	DO7~0 GND	RL6 COM	18	DO0~2 GND	RL1 COM
6	DO10~11 COM	RL6 NC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

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



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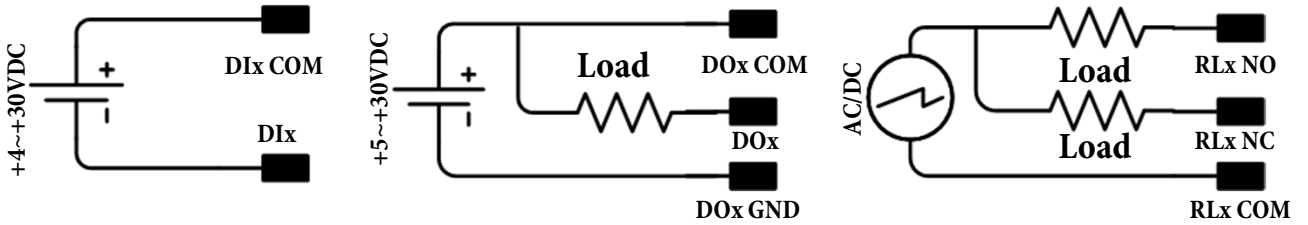
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3	DI10	DI1	16	DI1	RL0 NC
4	DI11	DI2	17	DI2~3COM	RL1 NO
5	DI12~15 COM	DI3	18	DI2	RL1 COM
6	DI12	DI4	19	DI3	RL1 NC
7	DI13	DI5	20	DI4~5COM	NC
8	DI14	DI6	21	DI4	RL2 NO
9	DI15	DI7	22	DI5	RL2 COM
10	(Y)DATA+	(Y)DATA+	23	DI6~8COM	RL2 NC
11	(G)DATA-	(G)DATA-	24	DI6	RL3 NO
12	(R)+VS	(R)+VS	25	DI7	RL3 COM
13	(B)GND	(B)GND	26	DI8	RL3 NC



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