

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. | | | | | | | |

For further information, please visit : www.yottacontrol.com/rm

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| 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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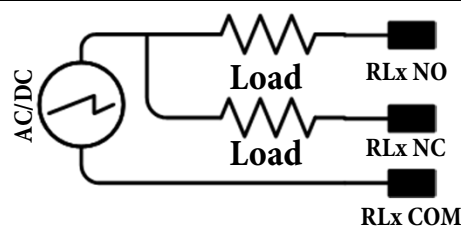
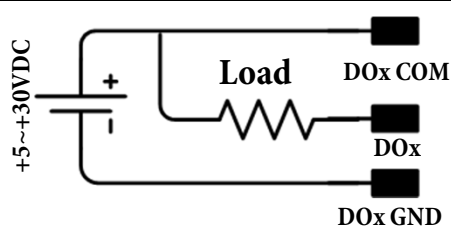
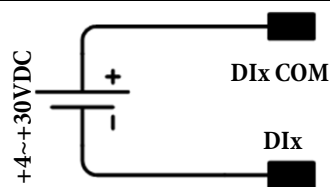
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| | A-1057/58 | | A-1068/69 | | | A-1057/58 | | A-1068 | | A-1069 | |
|------|----------------|--|-----------|--|------|----------------|--|---------|--|---------|--|
| Item | Pin Assignment | | | | Item | Pin Assignment | | | | | |
| 1 | DO7~9 COM | | 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 | |



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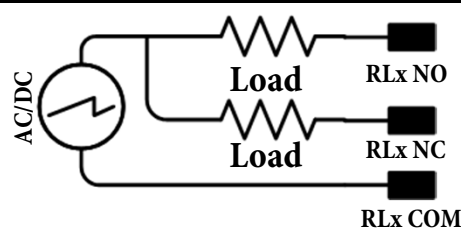
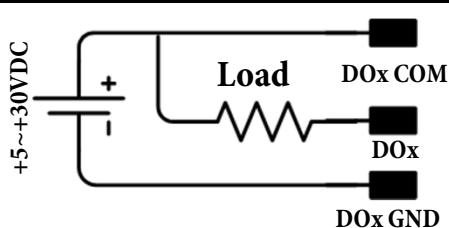
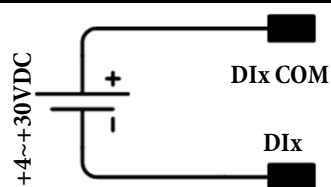
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|------|----------------|--|-----------|--|------|----------------|--|---------|--|---------|--|
| Item | Pin Assignment | | | | Item | Pin Assignment | | | | | |
| 1 | DO7~9 COM | | RL5 NO | | 14 | DO0~2 COM | | RL0 NO | | RL0 NO | |
| 2 | DO7 | | 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 | |



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