

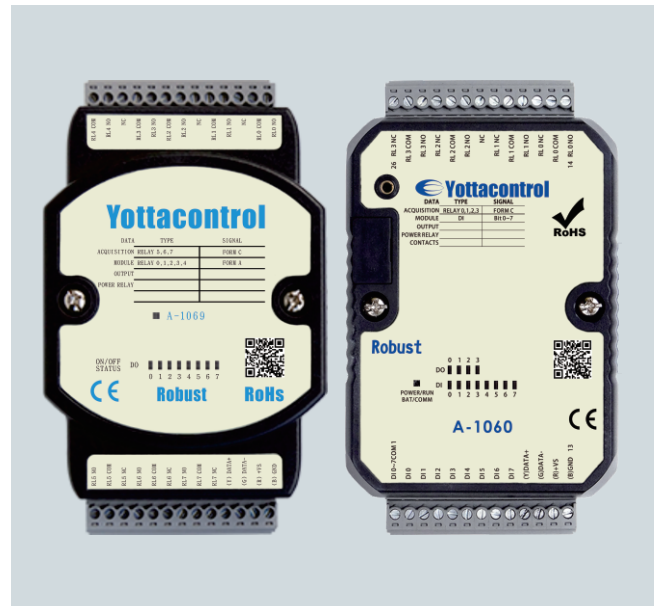
# Remote Modules

## RS-485 I/O Remote Modules

### A-10x Series

#### OVERVIEW

- ※ Use for Yottacontrol Whole Series Controller
- ※ RS-485 Interface
- ※ Supports Modbus RTU / ASCII
- ※ LED Indicator
- ※ Operation Temperature -20~+75°C
- ※ Isolation Voltage: 5000 V DC
- ※ Surge , EFT And ESD Protection
- ※ Dual Watchdog Timer
- ※ Low Power Indicator
- ※ Operation Range: Up To 1200 Meters
- ※ Free Monitor PC Software "YottaUtility"



For more information, please refer to [www.yottacontrol.com](http://www.yottacontrol.com)

Type	A-1057	A-1058	A-1068	A-1069	A-1051	A-1051+ (isolated RS485) DIO
Operation Voltage	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC
Inputs	---	---	---	---	16*Isolation DI status low:<1VDC status high:>5~30VDC	16*Isolation DI status low:<1VDC status high:>5~30VDC
Outputs	12 (Souce Transistor)	12 (Sink Transistor)	8 (Signal Relay)	8 (Power Relay)	---	---
Continuous Current	10-35VDC(1A)	10-40VDC(200mA)	120VAC(0.5A)/30VDC(1A)	250VAC(5A)/30VDC(1A)	---	---
Communication Baud Rate	1200~115200bps					
Isolation	YES(5000VDC)					
Input Operating Frequency	10HZ					
Output Operating Frequency	Relay:10HZ / Transistor:10HZ					
Operation Temperature	-20 to +75 °C					
Degree Of Protection	IP20					
Installation	35 mm DIN rail or Flush mounting					
Dimension (W x H x D mm)	76.4*118.2*38.5 mm					

Type	A-1055	A-1055S	A-1060	A-1080 (Lighting Relay Controller)
Operation Voltage	10~30VDC/24VAC	10~30VDC/24VAC	10~30 VDC/24VAC	10~30 VDC/24VAC
Inputs	8*Isolation DI status low:<1VDC status high:>5~30VDC	8*Isolation DI status low:<1VDC status high:>5~30VDC	8*Isolation DI status low:<1VDC status high:>5~30VDC	
Outputs	8 (Sink Transistor)	8 (Souce Transistor)	4 (Power Relay)	8 (HID Relay)
Continuous Current	10-35VDC(200mA)	10-35VDC(1A)	250VAC(5A)/30VDC(5A)	
Communication Baud Rate	1200~115200bps			2400~921600bps
Isolation	YES(5000VDC)			YES(5000VDC)
Input Operating Frequency	10HZ			10HZ
Output Operating Frequency	Relay:10HZ/Transistor:10HZ			Function Key:8
Operation Temperature	-20 to +75°C			-20 to +75°C
Degree Of Protection	IP20			IP20
Installation	35mm DIN rail or Flush mounting			35mm DIN rail or Flush mounting
Dimension (W x H x D mm)	76.4*118.2*38.5 mm			76.4*118.2*38.5 mm

# Remote Modules

## RS-485 Analog I/O Remote Modules

### A-10x Series

4

#### OVERVIEW

- ※ Analog Input 16-bit Resolution
- ※ Analog Output 12-bit Resolution
- ※ Support Analog Input/Output 0/4 ~20mA Or 0~10V
- ※ Support PT-100 Or PT-1000 (2/3/4-wired)
- ※ Support J, K, T, E, R, S, B Thermocouple
- ※ Support 10K/6.8K/4.7K/3.3K/3K/2.7K/2.252K/2.1K/2K/1.5K/1K Thermistor
- ※ Burn-out Detection
- ※ RS-485 Interface + USB Interface
- ※ Hi-Speed RS-485 Interface (Max 921600bps)
- ※ Supports Modbus RTU / ASCII
- ※ LED Indicator
- ※ Operation Temperature -20~+75°C
- ※ Isolation Voltage: 5000 V DC
- ※ Surge , EFT And ESD Protection
- ※ Dual Watchdog Timer
- ※ Low Power Indicator
- ※ Operation Range: Up To 1200 Meters
- ※ Free PC Software "YottaUtility "



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Type	A-1010 A-1010+ ADIO	A-1012 A-1012+ ADIO	A-1013 ADIO	A-1019 A-1019+ ADIO	A-1020 ADIO	A-1036+ AO	A-1038+ AO
Operation Voltage	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC
Inputs	---	2*Isolation DI status low:<1VDC status high:>5~30VDC	2*Isolation DI status low:<1VDC status high:>5~30VDC	4*Isolation DI status low:<1VDC status high:>5~30VDC	4*Isolation DI status low:<1VDC status high:>5~30VDC	---	---
Outputs	4*(Transistor)	2*(Transistor)	2*(Transistor)	---	---	---	---
Continuous Current	10-40VDC(200mA)	10-35VDC(1A)	10-35VDC(1A)	---	---	---	---
Communication Baud Rate	2400~921600bps						
Isolation	YES(5000VDC)						
Input Operating Frequency	10HZ						
Output Operating Frequency	Transistor:10HZ						
Operation Temperature	-20 to +75 °C						
Degree Of Protection	IP20						
Installation	35 mm DIN rail or Flush mounting						
Dimension (W x H x D mm)	76.4*118.2*38.5 mm						
Analog Inputs	8 (10-bit)	4 (16-bit)	4 (16-bit)	8 (16-bit)	8(16-bit)	---	---
Analog Input Type	0~10V	2*0/4~20mA isolated 2*PT-100/1000 (-200~+600°C)	2*0/2~10V 2*PT-100/1000 (-200~+600°C)	0/4~20mA isolated J,K,T,E ,R,S,B Thermistor (-270~+1800°C)	0/2~10V	---	---
Analog Outputs	2(10-bit)	2(12-bit)	2(12-bit)	---	---	6(12-bit)	8(12-bit)
Analog Output Type	0~10V	0/4~20mA	0/2~10V	---	---	0/4~20mA	0/2~10V
Input Impedance	Voltage:10 MΩ	Current:100Ω RTD: 10MΩ	Current:100Ω RTD: 10MΩ	Current:100Ω Voltage: 10MΩ	---	---	---
Analog Input / Output Accuracy	±1%/±1%	±0.1%/±1%	±0.1%/±1%	±0.1%/ ---	±0.1%/ ---	±0.1%/ ---	±0.1%/ ---
Interface	RS-485 (isolataed)	RS-485 (isolataed) +USB	RS-485+USB	RS-485 (isolataed) +USB	RS-485+USB	RS-485 (isolataed)	RS-485 (isolataed)
Channel Independent Configuration	YES						
Sampling Rate	AI/AO: 10sample/second(total) ; DI/DO:100sample/second(total)						
CMR @ 50/60 Hz	120 dB						
Span Drift	±50 ppm/°C						
Zero Drift	±18 μV/°C						
Temperature Ranges	(PT-100:-200~600°C) (PT-1000:-200~600°C) (J:-210~760°C) (K:-270~1370°C) (T:-270~400°C) (E:-270~1000°C) (R:0~1750°C) (S:0~1750°C) (B:0~1800°C) (Thermistor-10K-T2:0~100°C) (Thermistor-10K-T3:0~100°C) (Thermistor-6.8K:-10~100°C) (Thermistor-4.7K:-10~100°C) (Thermistor-3.3K:-20~100°C) (Thermistor-3K:-20~100°C) (Thermistor-2.7K:-20~100°C) (Thermistor-2.252K:-20~100°C) (Thermistor-2.1K:-30~100°C) (Thermistor-2K:-30~100°C) (Thermistor-1.5K:-40~100°C) (Thermistor-1K:-40~100°C)						

Sky blue background with white letters is the difference for the models in the same field.