

# Remote Modules

## RS-485 Analog I/O Remote Modules

### A-10x Series

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#### 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"



For more information, please refer to

[www.yottacontrol.com](http://www.yottacontrol.com)

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 <b>isolated</b> 2*PT-100/1000 (-200~+600°C)	2*0/2~10V 2*PT-100/1000 (-200~+600°C)	0/4~20mA <b>isolated</b> 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	<b>RS-485(isolataed)</b>	<b>RS-485(isolataed)</b> <b>+USB</b>	<b>RS-485+USB</b>	<b>RS-485(isolataed)</b> <b>+USB</b>	<b>RS-485+USB</b>	<b>RS-485(isolataed)</b>	<b>RS-485(isolataed)</b>
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.

# Ordering Information

## Yottacontrol Remote Modules

WIFI Remote Modules		
1212	WIFI ADIO Remote Modules,4AI(0~20/4~20mA + PT-100/1000),2AO(0~20/4~20mA),2DI,2DO(Source Output),WIFI*1,RS-485*1,USB*1	A-1212
1213	WIFI ADIO Remote Modules,4AI(0/2~10V + PT-100/1000),2AO(0/2~10V),2DI,2DO(Source Output),WIFI*1,RS-485*1,USB	A-1213
1219	WIFI ADIO Remote Modules,8AI(0~20/4~20mA,J,K,T,E,R,S,B,Thermistor),4DI,WIFI*1,RS-485*1,USB*1	A-1219
1251	WIFI DI Remote Modules,16DI,WIFI*1,RS-485*1,USB*1	A-1251
1255	WIFI ADIO Remote Modules,8DI/4DO/4AI(0~10V),Motor Driver Output,WIFI*1,RS-485*1,USB*1	A-1255
1260	WIFI ADIO Remote Modules,7DI/4DO/4AI(0~10V),Power Relay Output,WIFI*1,RS-485*1,USB*1	A-1260
1269	WIFI ADIO Remote Modules,8DO/4AI(0~10V),Power Relay Output, WIFI*1,RS-485*1,USB*1	A-1269
1255S	WIFI ADIO Remote Modules,8DI/4DO/4AI(0~10V),Source Output,WIFI*1,RS-485*1,USB*1	A-1255S
ETHERNET Remote Modules		
1812	ETHERNET ADIO Remote Modules,4AI(0~20/4~20mA + PT-100/1000),2AO(0~20/4~20mA),2DI,ETHERNET*1,USB*1	A-1812
1819	ETHERNET ADIO Remote Modules,8AI(0~20/4~20mA,J,K,T,E,R,S,B,Thermistor),ETHERNET*1,USB*1	A-1819
1851	ETHERNET DI Remote Modules,16DI,ETHERNET*1,USB*1	A-1851
1855	ETHERNET DIO Remote Modules,8DI/4DO,Motor Driver Output,ETHERNET*1,USB*1	A-1855
1860	ETHERNET DIO Remote Modules,8DI/4DO,Power Relay Output,ETHERNET*1,USB*1	A-1860
1869	ETHERNET DIO Remote Modules,8DO,Power Relay Output,ETHERNET*1,USB*1	A-1869
1855S	ETHERNET DIO Remote Modules,8DI/4DO,Source Driver Output,ETHERNET*1,USB*1	A-1855S
RS-485 Remote Modules		
1057	DO Remote Modules , LED indicator , DC Power Supply , 12DO , Source Output , RS-485*1	A-1057
1058	DO Remote Modules , LED indicator , DC Power Supply , 12DO , Sink Output , RS-485*1	A-1058
1068	DO Remote Modules , LED indicator , DC Power Supply , 8DO , Signal Relay Output , RS-485*1	A-1068
1069	DO Remote Modules , LED indicator , DC Power Supply , 8DO , Power Relay Output , RS-485*1	A-1069
1051+	DI Remote Modules , LED indicator , DC Power Supply , 16DI , RS-485*1(isolated)	A-1051+
1051	DI Remote Modules , LED indicator , DC Power Supply , 16DI , RS-485*1	A-1051
1055	DIO Remote Modules , LED indicator , DC Power Supply , 8DI/8DO , Sink Output , RS-485*1	A-1055
1055S	DIO Remote Modules , LED indicator , DC Power Supply , 8DI/8DO , Source Output , RS-485*1	A-1055S
1060	DIO Remote Modules , LED indicator , DC Power Supply , 8DI/4DO , Power Relay Output , RS-485*1	A-1060
1010+	ADIO Remote Modules , LED indicator , DC Power Supply , 8AI(0~10V) , 2AO(0~10V) , 4DO(Sink Output) , RS-485*1(isolated)	A-1010+
1010	ADIO Remote Modules , LED indicator , DC Power Supply , 8AI(0~10V) , 2AO(0~10V) , 4DO(Sink Output) , RS-485*1	A-1010
1012+	ADIO Remote Modules , LED indicator , DC Power Supply , 4AI(0/4~20mA+PT100/1000) , 2AO(0/4~20mA) , 2DI , 2DO(source) , RS-485*1(isolated)	A-1012+
1012	ADIO Remote Modules , LED indicator , DC Power Supply , 4AI(0/4~20mA+PT100/1000) , 2AO(0/4~20mA) , 2DI , 2DO(source) , RS-485*1,USB*1	A-1012
1013	ADIO Remote Modules , LED indicator , DC Power Supply , 4AI(0/2~10V+PT100/1000) , 2AO(0/2~10V) , 2DI , 2DO(source) , RS-485*1,USB*1	A-1013
1019+	ADIO Remote Modules , LED indicator , DC Power Supply , 8AI(0~20/4~20mA,J,K,T,E,R,S,B,Thermistor) , 4DI , RS-485*1(isolated)	A-1019+
1019	ADIO Remote Modules , LED indicator , DC Power Supply , 8AI(0~20/4~20mA,J,K,T,E,R,S,B,Thermistor) , 4DI , RS-485*1,USB*1	A-1019
1020	ADIO Remote Modules , LED indicator , DC Power Supply , 8AI(0~10V)-16bits , 4DI , RS-485*1 , USB*1	A-1020
1036+	AO Remote Modules , LED indicator , DC Power Supply , 6AO(0/4~20mA) , RS-485*1(isolated)	A-1036+
1038+	AO Remote Modules , LED indicator , DC Power Supply , 8AO(0/2~10V) , RS-485*1(isolated)	A-1038+
1080	DO Remote Modules , LED indicator , DC/AC Power Supply , 8DO , HID Relay Output , Input Switch*8 , RS-485*1	A-1080
Wi-Fi Two-Way Communicate Transmitters		
A-3290	WIFI DI Remote Modules,7DI,WIFI*1,USB*1	A-3290
Accessories		
ASPS	Power Supply , 24V/2A	ASPS
CAB-MINIUSB60	Communication lines	CAB-MINIUSB60
CAB89	A-3290 Communication lines	CAB89
Software		
YottaUtility	Monitoring and Database Software	YottaUtility
A-1x USB Driver	A-1x USB PC Driver	DR-A1XUSB
CAB89 USB Driver	A-3290 Communication lines PC Driver	DR-CAB89USB

