

# A Series Remote Modules

Catalogue • 2016.03



## WIFI/ETHERNET/RS-485 Remote Modules

**eAutomation Solution**

 **Yottacontrol Co.**

# Remote Modules

## WiFi Analog I/O Remote Modules

### A-12x Series/A-3290



#### OVERVIEW

- ※ Analog Input 16-bit Resolution ,Burn-out Detection
- ※ 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
- ※ WiFi Interface + RS-485 Interface + USB Interface
- ※ Hi-Speed RS-485 Interface (Max 921600bps)
- ※ Standard 2.4GHz IEEE 802.11 b/g (Wi-Fi)
- ※ Built-in Step Motor Driver, Connect Directly
- ※ Output Over Current Protection (OCP)
- ※ Output Over Thermal Protection (OTP)
- ※ Output Under Voltage Lockout (UVLO)
- ※ Support MODBUS TCP/IP, UDP/IP , RTU , ASCII
- ※ Able To Connect Wi-Fi AP, Internet Of Things (IOT), Remote control
- ※ A-3290 Can Be Directly Connected To The Control Output, Without Any Controller
- ※ Free PC Software "Yotta Utility"



For more information, please refer to

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

Type	A-1251	A-1212	A-1219	A-1255	A-1260	A-1269	A-3290
	DI	ADIO	ADIO	ADIO	ADIO	ADIO	Wi-Fi Two-Way communicate Transmitter
Operation Voltage	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	AA Battery *2
Inputs	16*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	8*Isolation DI status low:<1VDC status high:>5~30VDC	7*Isolation DI status low:<1VDC status high:>5~30VDC	---	7*Isolation DI
Outputs	---	2*(Transistor)	---	4*(Motor Driver)	4*(Power Relay)	8*(Power Relay)	---
Continuous Current	---	10~35VDC(1A)	---	8~60VDC(1.75A)	250VAC(7A)/30VDC(7A)	250VAC(5A)/30VDC(5A)	---
Communication Baud Rate	2400~921600bps						WiFi b/g
Isolation	YES(5000VDC)						
Input Operating Frequency	10HZ						5HZ
Output Operating Frequency	Transistor:10HZ						---
Operation Temperature	-20 to +75 °C						-20 to +75 °C
Degree Of Protection	IP20						IP66
Installation	35 mm DIN rail or Flush mounting						---
Dimension (W x H x D mm)	76.4*118.2*38.5 mm						120*55*30 mm
Analog inputs	---	4 (16-bit)	8 (16-bit)	---	4 (12-bit)	---	---
Analog input Type	---	2* 0/4~20mA 2* PT-100/1000 (-200 ~ +600°C)	0/4~20mA, J, K, T, E, R, S, B, Thermistor (-100 ~ +1800°C)	---	4* 0~10V	---	---
Analog Outputs	---	2 (12-bit)	---	---	---	---	---
Analog Outputs	---	0/4 ~20mA	---	---	---	---	---
Input Impedance	---	Current: 100 Ω RTD : 10 MΩ	Current: 100 Ω Voltage : 10 MΩ	---	Voltage:10 MΩ	---	---
Analog Input / Output Accuracy	---	±0.1% / ±1%	±0.1% / ---	---	±1% / ---	---	---
Interface	WiFi + RS-485 + USB						WiFi + USB
Channel Independent Configuration	YES						---
Sampling Rate	10 sample/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:0~760°C) (K:0~1,370°C) (T:-100~400°C) (E:0~1,000°C) (R:500~1,750°C) (S:500~1,750°C) (B:500~1,800°C) (Thermistor-10K-T2:0~100°C) (Thermistor-10K-T3:0~100°C) (Thermistor-6.8K:0~100°C) (Thermistor-4.7K:0~100°C) (Thermistor-3.3K:0~100°C) (Thermistor-3K:0~100°C) (Thermistor-2.7K:0~100°C) (Thermistor-2.252K:0~100°C) (Thermistor-2.1K:0~100°C) (Thermistor-2K:0~100°C) (Thermistor-1.5K:0~100°C) (Thermistor-1K:0~100°C)						

# Remote Modules

## ETHERNET Analog I/O Remote Modules

### A-18x Series



#### 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
- ※ Ethernet Interface + USB Interface
- ※ Supports 8 Independent Sockets Simultaneously
- ※ Remote monitoring and control with mobile devices
- ※ Built-in Step Motor Driver, Connect Directly
- ※ Output Over Current Protection (OCP)
- ※ Output Over Thermal Protection (OTP)
- ※ Output Under Voltage Lockout (UVLO)
- ※ Support MODBUS TCP/IP, MODBUS RTU
- ※ Flexible User-defined Modbus address
- ※ Support LAN 10/100 Mbps Communication Rate
- ※ Free PC Software "Yotta Utility"



For more information, please refer to

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

Type	A-1851	A-1812	A-1819	A-1855	A-1860	A-1869
	DI	AIO	AIO	DIO	DIO	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	2*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	---	---	---	4*(Motor Driver)	4*(Power Relay)	8*(Power Relay)
Continuous Current	---	---	---	8-60VDC(1.75A)	250VAC(7A)/30VDC(7A)	250VAC(7A)/30VDC(7A)
Communication Baud Rate	10/100Mbps					
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	---	4 (16-bit)	8 (16-bit)	---		
Analog input Type	---	2* 0/4-20mA 2* PT-100/1000 (-200 ~ +600°C)	0/4-20mA, J, K, T, E, R, , S, B, Thermistor (-100 ~ +1800°C)	---		
Analog Outputs	---	2 (12-bit)	---	---		
Analog Outputs	---	0/4 ~20mA	---	---		
Input Impedance	---	Current: 100 Ω RTD : 10 MΩ	Current: 100 Ω Voltage : 10 MΩ	---		
Analog Input /Output Accuracy	---	±0.1% / ±1%	±0.1% / ---	---		
Interface	Ethernet + USB					
Channel Independent Configuration	YES					
Sampling Rate	10 sample/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:0-760°C) (K:0-1,370°C) (T:-100-400°C) (E:0-1,000°C) (R:500-1,750°C) (S:500-1,750°C) (B:500-1,800°C) (Thermistor-10K-T2:0-100°C) (Thermistor-10K-T3:0-100°C) (Thermistor-6.8K:0-100°C) (Thermistor-4.7K:0-100°C) (Thermistor-3.3K:0-100°C) (Thermistor-3K:0-100°C) (Thermistor-2.7K:0-100°C) (Thermistor-2.252K:0-100°C) (Thermistor-2.1K:0-100°C) (Thermistor-2K:0-100°C) (Thermistor-1.5K:0-100°C) (Thermistor-1K:0-100°C)					

# Remote Modules

## RS-485 I/O Remote Modules

### A-10x Series

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#### OVERVIEW

- ※ Use For A-1x/A-2x/A-5x/A-6x/A-7x/A-8x Series
- ※ 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 PC software “Yotta Utility”



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Type	A-1057	A-1058	A-1068	A-1069	A-1051	A-1055
	DO	DO	DO	DO	DI	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	8*Isolation DI status low:<1VDC status high:>5-30VDC
Outputs	12 (Source Transistor)	12 (Sink Transistor)	8 (Signal Relay)	8 (Power Relay)	---	8 (Sink Transistor)
Continuous Current	10-35VDC(1A)	10-40VDC(200mA)	120VAC(0.5A)/30VDC(1A)	250VAC(5A)/30VDC(1A)	---	10-40VDC(200mA)
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-1055S	A-1060
	DIO	DIO
Operation Voltage	10-30VDC/24VAC	10-30VDC/24VAC
Inputs	8*Isolation DI status low:<1VDC status high:>5-30VDC	8*Isolation DI status low:<1VDC status high:>5-30VDC
Outputs	8 (Source Transistor)	4 (Power Relay)
Continuous Current	10-35VDC(1A)	250VAC(5A)/30VDC(5A)
Communication Baud Rate	1200-115200bps	
Analog inputs	---	
Analog Output	---	
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	

# 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 or 3-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 “Yotta Utility”



For more information, please refer to  
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Type	A-1010	A-1012	A-1019
	ADIO	ADIO	ADIO
Operation Voltage	10-30VDC/24VAC	10-30VDC/24VAC	10-30VDC/24VAC
Inputs	---	2*Isolation DI status low:<1VDC status high:>5-30VDC	4*Isolation DI status low:<1VDC status high:>5-30VDC
Outputs	4*(Transistor)	2*(Transistor)	---
Continuous Current	10-40VDC(200mA)	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)	8 (16-bit)
Analog input Type	0-10V	2* 0/4-20mA 2* PT-100/1000 (-200 ~ +600°C)	0/4-20mA, J, K, T, E, R , S, B, Thermistor (-100 ~ +1800°C)
Analog Outputs	2 (10-bit)	2 (12-bit)	---
Analog Outputs	0-10V	0/4 ~20mA	---
Input Impedance	Voltage:10 MΩ	Current: 100 Ω RTD : 10 MΩ	Current: 100 Ω Voltage : 10 MΩ
Analog Input / Output Accuracy	±1% / ±1%	±0.1% / ±1%	±0.1% / ---
Interface	RS-485		RS-485 + USB
Channel Independent Configuration			YES
Sampling Rate			10 sample/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:0-760°C) (K:0-1,370°C) (T:-100-400°C) (E:0-1,000°C) (R:500-1,750°C) (S:500-1,750°C) (B:500-1,800°C) (Thermistor-10K-T2:0-100°C) (Thermistor-10K-T3:0-100°C) (Thermistor-6.8K:0-100°C) (Thermistor-4.7K:0-100°C) (Thermistor-3.3K:0-100°C) (Thermistor-3K:0-100°C) (Thermistor-2.7K:0-100°C) (Thermistor-2.252K:0-100°C) (Thermistor-2.1K:0-100°C) (Thermistor-2K:0-100°C) (Thermistor-1.5K:0-100°C) (Thermistor-1K:0-100°C)		

# Monitoring and Database Software

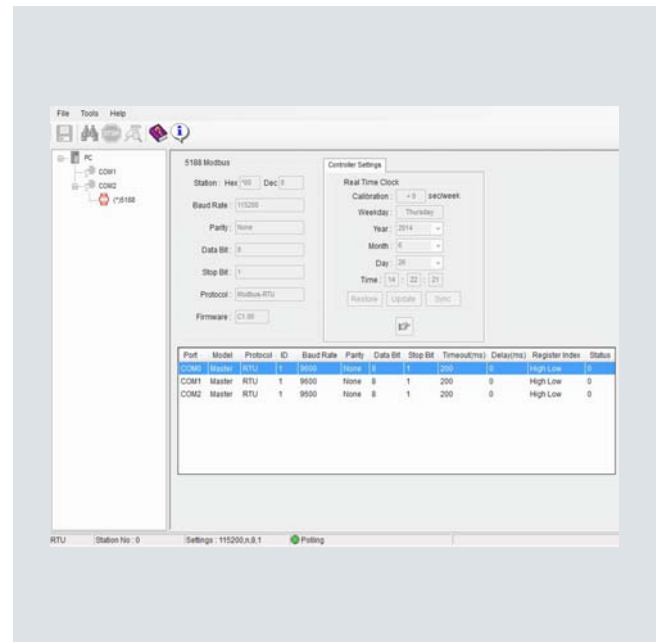
## DCS Monitoring and Database Software

### Yotta Utility

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#### OVERVIEW

- ※ Monitor & Database Function
- ※ Use For All Yottacontrol A-1/2/3/5/6/7/8 Series Controller & Time Switch Series
- ※ Windows98/ME/2000/XP/Vista/7/8/10
- ※ Quick Setup Distributed Device Parameter & Monitoring
- ※ Can Monitor DCS Program & Parameters
- ※ Can Monitor PLC Program & Parameters
- ※ Monitor & Database Can Use For SCADA
- ※ Real-Time Monitoring, Warning Setup
- ※ Monitor Hundreds Controllers & Distributed Devices
- ※ Component Name Comment
- ※ Easy Logical Program Function
- ※ Time Switch Series Edit
- ※ Multi Communicate Parameter Function
- ※ Support MODBUS TCP-IP/UDP-IP/RTU/ASCII
- ※ Quick Setup Controller RTC Parameter



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

#### APPLICATIONS

##### ELECTRONIC EQUIPMENT

- SORTING MACHINE
- LOADER & UNLOADER
- PACKAGING MACHINE
- DETECTOR
- CUTTING MACHINE
- LAMINATOR
- COATING MACHINE
- LAPPING MACHINE
- FEEDING SYSTEM
- PRECISION MACHINERY

##### ELECTROMECHANICAL EQUIPMENT

- SPRAYING MACHINE
- EVAPORATION
- MACERATOR
- CALENDER MACHINE
- FLUSHING MACHINE
- ELECTROPLATING MACHINE
- WELDING MACHINE
- PRESS MACHINE
- CUTTING MACHINE
- BENDING MACHINE
- BOBBIN MACHINE
- BURN-IN EQUIPMENT
- DIE CASTER
- HEATING PROCESSING

##### FOOD & BEVERAGE

- PACKAGING MACHINE
- SEAL-CAPPING MACHINE
- LABELLING MACHINE
- FORMING MACHINE
- BLENDER EQUIPMENT
- CASING MACHINE
- FILLING MACHINE
- DRYER EQUIPMENT
- WEIGHT SEPARATOR
- CAPPING MACHINE
- INJECTION MACHINE
- TEMPERATURE-CONTROL

# Ordering Information

## Yottacontrol Remote Modules

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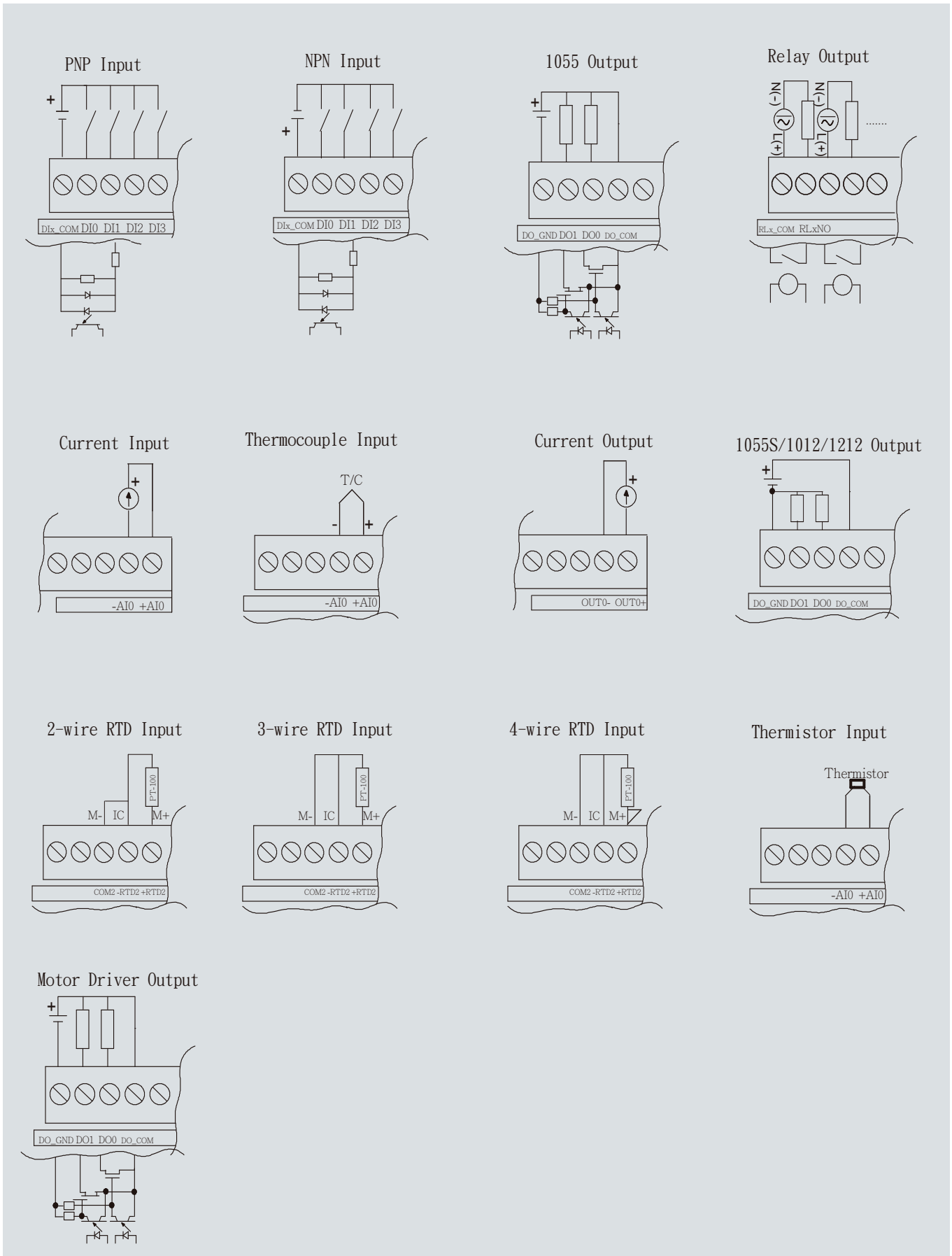
WIFI Remote Modules		
1212	WIFI ADIO Remote Modules, 4AI(0-20/4-20mA + PT-100/1000), 2AO(0-20/4-20mA), 2DI, 2DO(Source Output), WIFI*1, RS-485*1, USB*1	A-1212
1219	WIFI ADIO Remote Modules, 8AI(0-20/4-20mA, J, K, T, E, R, S, B, Thermistor), 4DI, WIFI*1, RS-485*1, USB*1	A-1219
1251	WIFI DI Remote Modules, 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
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
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	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	A-1010
1012	ADIO Remote Modules · LED indicator · DC Power Supply · 4AI(0-20/4-20mA + PT-100/1000) · 2AO(0-20/4-20mA) · 2DI · 2DO(Source Output) · RS-485*1, USB*1	A-1012
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
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		
Yotta Utility	Monitoring and Database Software	Yotta Utility
A-1x USB Driver	A-1x USB PC Driver	DR-A1XUSB
CAB89 USB Driver	A-3290 Communication lines PC Driver	DR-CAB89USB

# Wiring Diagrams & Pin Out

## Remote Modules

### A-1x Series

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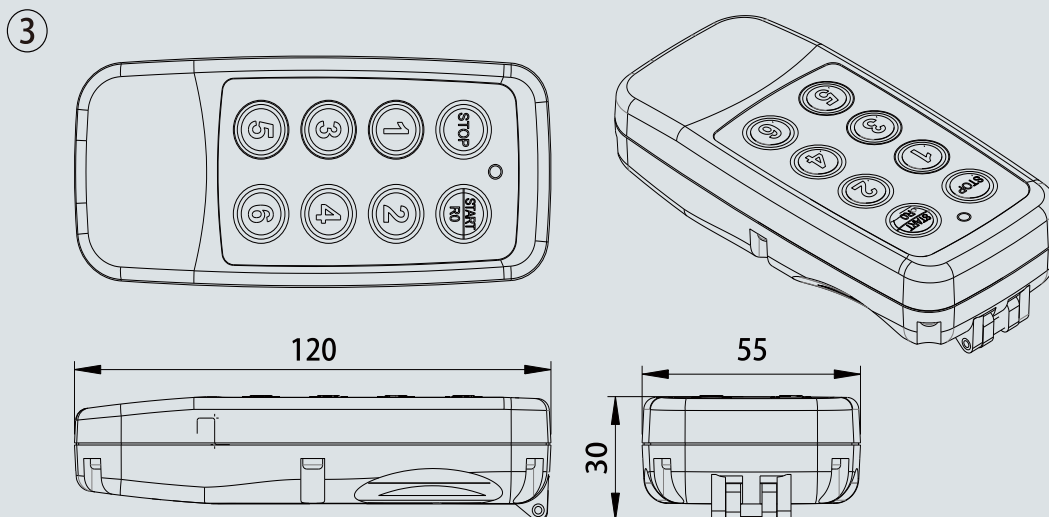
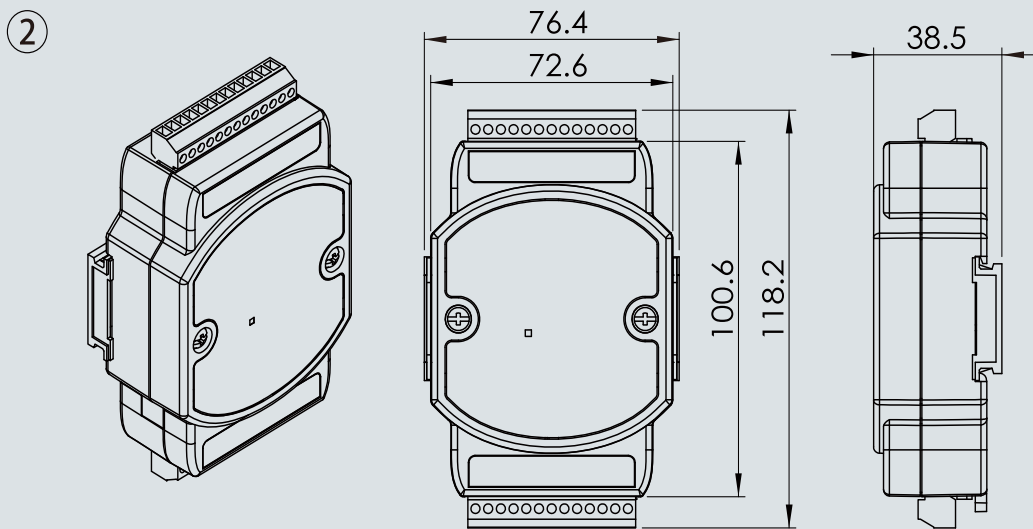
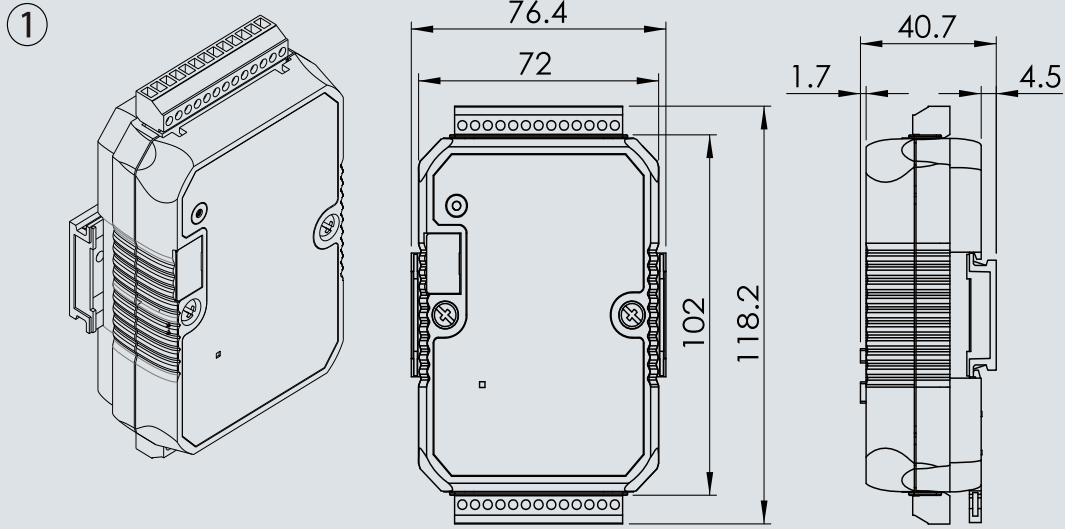


# Dimension

## Remote Modules

### Remote Modules

Dimension



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

# Pin Assignments

## Remote Modules

### Remote Modules

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#### Pin Table

<p><b>A-1251</b></p> <p>26 D18 D19 D10 D11 D12 D13 D14 D15 D16-8COM D17-15COM D18-5COM D19-3COM D20-1COM</p> <p>D19-11COM1 D19 D10 D11 D12-15COM D13 D14 D15 D16-8COM D17-15COM D18-5COM D19-3COM D20-1COM</p>	<p><b>A-1255</b></p> <p>26 D16 D15 D14 D13 D12 D11 D10 D10-6COM D11-3GND D12-3GND D13-3GND D14-3GND D15-3GND D16-3GND D17-3GND D18-3GND D19-3GND D20-3GND D21-3GND D22-3GND D23-3GND D24-3GND D25-3GND D26-3GND</p> <p>D17COM1 D17 NC D00-3COM D00 D01 D02 D03 D00-3GND D01-3GND D02-3GND D03-3GND (V)DATA+ (G)DATA- (R)+V5 (B)GND 13 A10</p>	<p><b>A-1260</b></p> <p>26 D16 D15 D14 D13 D12 D11 D10 D10-6COM D11-3GND D12-3GND D13-3GND D14-3GND D15-3GND D16-3GND D17-3GND D18-3GND D19-3GND D20-3GND D21-3GND D22-3GND D23-3GND D24-3GND D25-3GND D26-3GND</p> <p>RL0 NO 1 RL0 COM RL1 NO RL1 COM RL2 NO RL2 COM RL3 NO RL3 COM NC (V)DATA+ (G)DATA- (R)+V5 (B)GND 13 A10</p>
<p><b>A-1269</b></p> <p>26 RL3 COM RL3 NO RL2 COM RL2 NO RL1 COM RL1 NO RL0 COM RL0 NO A10-3GND A11 A12 A13 A14 A10</p> <p>RL4 NO 1 RL4 COM RL5 NO RL5 COM RL6 NO RL6 COM RL7 NO RL7 COM NC (V)DATA+ (G)DATA- (R)+V5 (B)GND 13 A10</p>	<p><b>A-1212</b></p> <p>26 D11 D10 COM3 COM2 COM1 D10-1COM D11-1COM D12-1COM D13-1COM D14-1COM D15-1COM D16-1COM D17-1COM D18-1COM D19-1COM D20-1COM D21-1COM D22-1COM D23-1COM D24-1COM D25-1COM D26-1COM</p> <p>OUT0+ OUT0- OUT1+ OUT1- NC D00-1COM D01 D02 D03 D04 D05 D06 D07 D08 D09 D10 D11 D12 D13 D14 D15 D16 D17 D18 D19 D20 D21 D22 D23 D24 D25 D26</p>	<p><b>A-1219</b></p> <p>26 -A13 -A12 -A11 -A10 -A9 -A8 -A7 -A6 -A5 -A4 -A3 -A2 -A1 -A0 +A10 +A9 +A8 +A7 +A6 +A5 +A4 +A3 +A2 +A1 +A0 14 DI0-3COM</p> <p>+A14 1 -A14 +A15 -A15 +A16 -A16 +A17 -A17 NC (V)DATA+ (G)DATA- (R)+V5 (B)GND 13 A10</p>
<p><b>A-1851</b></p> <p>85Ω 20 D15 D14 D13 D12 D11 D10 D10-5COM D11-5COM D12-5COM D13-5COM D14-5COM D15-5COM D16-5COM D17-5COM D18-5COM D19-5COM D20-5COM D21-5COM D22-5COM D23-5COM D24-5COM D25-5COM D26-5COM</p> <p>85Ω 20 D16-15COM1 D16 D17 D18 D19 D10 D11 D12 D13 D14 D15 D16 D17 D18 D19 D20 D21 D22 D23 D24 D25 D26</p> <p>RJ-45 (Ethernet) 14 DI0-5COM</p>	<p><b>A-1855</b></p> <p>85Ω 20 D15 D14 D13 D12 D11 D10 D10-5COM D11-5COM D12-5COM D13-5COM D14-5COM D15-5COM D16-5COM D17-5COM D18-5COM D19-5COM D20-5COM D21-5COM D22-5COM D23-5COM D24-5COM D25-5COM D26-5COM</p> <p>85Ω 20 D16-7COM1 D16 D17 D18 D19 D20 D21 D22 D23 D24 D25 D26</p> <p>RJ-45 (Ethernet) 14 DI0-5COM</p>	<p><b>A-1860</b></p> <p>85Ω 20 D15 D14 D13 D12 D11 D10 D10-5COM D11-5COM D12-5COM D13-5COM D14-5COM D15-5COM D16-5COM D17-5COM D18-5COM D19-5COM D20-5COM D21-5COM D22-5COM D23-5COM D24-5COM D25-5COM D26-5COM</p> <p>85Ω 20 D16-7COM1 D16 D17 RL0 NO RL0 COM RL1 NO RL1 COM RL2 NO RL2 COM RL3 NO RL3 COM (R)+V5 (B)GND 13 A10</p> <p>RJ-45 (Ethernet) 14 DI0-5COM</p>
<p><b>A-1869</b></p> <p>85Ω 20 RL2 COM RL2 NO RL1 COM RL1 NO RL0 COM RL0 NO NC A10-3GND A11 A12 A13 A14 A10</p> <p>85Ω 20 RL3 NO 1 RL3 COM NC RL4 NO RL4 COM RL5 NO RL5 COM RL6 NO RL6 COM RL7 NO RL7 COM (R)+V5 (B)GND 13 A10</p> <p>RJ-45 (Ethernet) 14</p>	<p><b>A-1812</b></p> <p>85Ω 20 D11 D10 D10-1COM D11-1COM D12-1COM D13-1COM D14-1COM D15-1COM D16-1COM D17-1COM D18-1COM D19-1COM D20-1COM D21-1COM D22-1COM D23-1COM D24-1COM D25-1COM D26-1COM</p> <p>85Ω 20 +A10 1 -A10 +A11 -A11 +A12 -A12 +A13 -A13 +A14 -A14 +A15 -A15 +A16 -A16 +A17 -A17 NC (R)+V5 (B)GND 13 A10</p> <p>RJ-45 (Ethernet) 14+OUT0 -OUT0 -OUT1 +OUT1 COM2 COM3 +A10 -A10 +A11 -A11 +A12 -A12 +A13 -A13 +A14 -A14 +A15 -A15 +A16 -A16 +A17 -A17 NC (R)+V5 (B)GND 13 A10</p>	<p><b>A-1819</b></p> <p>85Ω 20 -A13 -A12 -A11 -A10 -A9 -A8 -A7 -A6 -A5 -A4 -A3 -A2 -A1 -A0 +A10 +A9 +A8 +A7 +A6 +A5 +A4 +A3 +A2 +A1 +A0 14 NC RJ-45 (Ethernet)</p> <p>85Ω 20 +A13 1 -A13 +A14 -A14 +A15 -A15 +A16 -A16 +A17 -A17 NC (R)+V5 (B)GND 13 A10</p> <p>RJ-45 (Ethernet) 14</p>

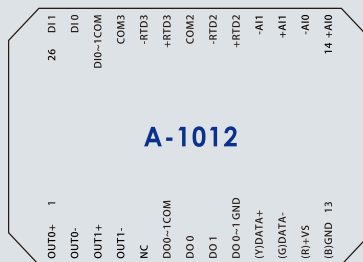
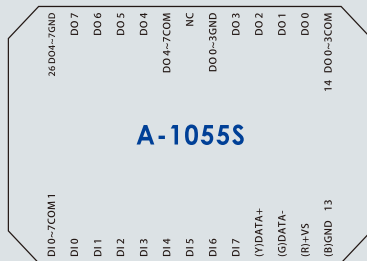
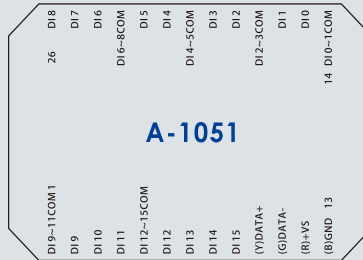
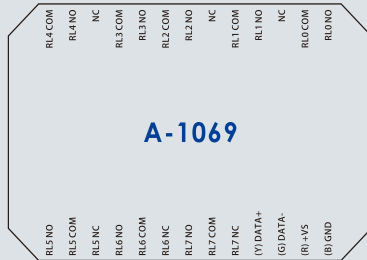
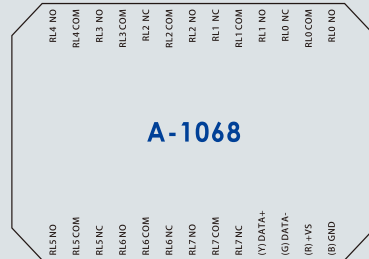
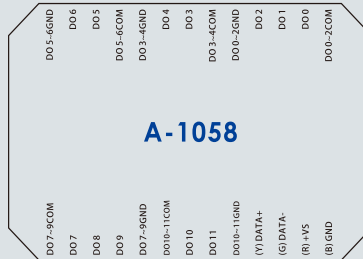
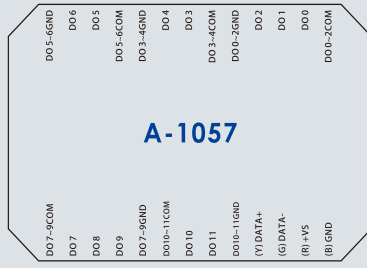
For more information, please refer to [www.yottacontrol.com](http://www.yottacontrol.com)

# Pin Assignments

## Remote Modules

### Remote Modules

#### Pin Table



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

# Address Mapping

## Remote Modules

### Remote Modules

#### Mapping Table

A-1212					
<b>Supported Modbus Code:</b>	<b>01/02/05/15</b>				
Address 0X	Item	NOR	INIT*	NOTE	
00001-00002	0-1 DI Input Signal	R	R		
00017-00018	0-1 DO Output Value	R/W	R/W		
00033-34	0-1 Power On Digital Output Value	R	R/W		
00049-50	0-1 Communication Fail Safe Value	R	R/W		
00065-00066	0-1 Burn-out Signal	R	R	1:Burn-out (4-20mA only)	
00067-00068	2-3 Burn-out Signal	R	R	1:Burn-out	
000129-01152	0-1023 Auxiliary Memory (M Flag)	R/W	R/W		
<b>Supported Modbus Code:</b>	<b>03/04/06/16</b>				
Address 4X	Item	NOR	INIT*	NOTE	
40001-40002	0-1 Current Input Value	R	R	0-20000:0/4-20mA	
40003-40004	2-3 Current Input Value	R	R	0-8000:200-+600° C	
40017-40018	0-1 Current Output Value	R/W	R/W	0-4000:0/4-20mA	
40033-40034	Power On Analog Output Value AOO	R	R/W	0-4000:0/4-20mA	
40049-40050	0-1 Communication Fail Safe Analog Output Value	R	R/W	0-4000:0/4-20mA	
40065-40066	0-1 Input Type Code	R	R/W	0:4-20mA 1: 0-20mA	
40067-40068	2-3 Input Type Code	R	R/W	0:PT-100 $\alpha = 0.00385$	
				1:PT-100 $\alpha = 0.003916$	
				2:PT-1000 $\alpha = 0.00385$	
				3:PT-1000 $\alpha = 0.003916$	
40081-40082	0-1 Output Type Code	R	R/W	0:4-20mA 1: 0-20mA	
40097-40098	0-1 Current Input Value	R	R	4/0-20:4/0-20mA	
40099-40100	2-3 Current Input Value	R	R	-200-+600:-200-+600° C	
40113-40114	0-1 Current Input Value	R	R	4/0-20:4/0-20mA	
40115-40116	2-3 Current Input Value	R	R	-328-+1112:-328-+1112° F	
40129-40130	0-1 Current Input Value	R	R	40/0-200:4.0/0-20.0mA	
40131-40132	2-3 Current Input Value	R	R	-2000-+6000:-200.0-+600.0° C	
40145-40146	0-1 Current Input Value	R	R	40/0-200:4.0/0-20.0mA	
40147-40148	2-3 Current Input Value	R	R	-3280-+11120:-328.0-+1112.0° F	
40161-40164	0-3 Current Input Value	R	R	0-10000:0.00-100.00% of FSR	
40177	Communication Fail Safe Time Setting Value	R	R/W	0-65535:Disable-65535msec	
40178	All DI Value	R	R		
40211	Module Name 1	R	R	0x12 0x12	
40212	Module Name 2	R	R		
40213	Version 1	R	R	0x01 0x12	
40214	Version 2	R	R		
40215-40220	1-6Mac Serial Number	R	R		
40300	Module's ID in normal mode	R	R/W	1-255	
40301	Protocol in normal mode	R	R/W	0: RTU 1: ASCII	
40302	Baud rate in normal mode	R	R/W	1 : 2400 bps 2 : 4800 bps 3 : 9600 bps 4 : 14400 bps 5 : 19200 bps 6 : 28800 bps 7 : 38400 bps 8 : 57600 bps 9 : 115200 bps 10 : 230400 bps 11 : 460800 bps 12 : 921600 bps	
40303	Parity option in normal mode			0 : None 1 : Odd 2 : Even	
40304	Stop bits in normal mode	R	R/W	0 : 1 bit 1 : 2 bit	
40305	Time Out Setting in normal mode	R	R/W	0-65535 msec	
40609-40616	0-3 Current Input Value	R	R	32-bit Floating Value (IEEE754)(Float CD AB)	
40641-40648	0-3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754)(Float CD AB)	
40673-40680	0-3 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754)(Float CD AB)	
40705-40712	0-3 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float AB CD)	
40737-40744	0-3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754) (Float AB CD)	
40769-40776	0-3 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754) (Float AB CD)	
40801-40808	0-3 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float BA DC)	
40833-40840	0-3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754) (Float BA DC)	
40865-40872	0-3 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754) (Float BA DC)	
40897-40904	0-3 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float DC BA)	
40929-40936	0-3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754) (Float DC BA)	
40961-40968	0-3 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754) (Float DC BA)	
41281-41408	0-127 Analog Auxiliary Memory (AM Flag)	R/W	R/W	0-65535	
40401	WiFi Mode	R	R/W	0:AP(default) 1:Remote	
40402	WiFi Encryption (WPA2)	R	R/W	0:DISABLE(default) 1:ENABLE	
40403-40434	WiFi SSID	R	R/W	Default : 12WIFI	
40435-40498	WiFi Password	R	R/W	Default : 88888888	
40499	WiFi Channel	R	R/W	0- 13 0: Auto(default) / 1-13CH	
40500-40503	WiFi IP	R	R/W	IP:x.x.x.x default : 192.168.1.1	
40504-40507	WiFi MASK	R	R/W	MASK: x.x.x.x default:255.255.255.0	
40508-40511	WiFi GATEWAY	R	R/W	GATEWAY: x.x.x.x Default:0.0.0.0	
40512	WiFi MODBUS ID	R	R/W	INIT*: 0 ,NOR:1-255	
40513	WiFi LOCAL PORT	R	R/W	1-65535 Default :502	
40514	WiFi REMOTE PORT	R	R/W	1-65535 Default:2000	
40515	WiFi DHCP Enable	R	R/W	0:ENABLE(default) 1:DISABLE	
40516	WiFi PROTOCOL	R	R/W	0:Modbus TCP/IP(default) 1:Modbus UDP/IP 2:Modbus RTU Over TCP/IP 3:Modbus RTU Over UDP/IP	
40517	WiFi TX POWER	R	R/W	0: Auto(default) step :1-12	
40518-40523	MAC ADDRESS	R	R	EX: 00-05-5D-E8-0F-A3	

For more information, please refer to  
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# Address Mapping

## Remote Modules

### Remote Modules

#### Mapping Table

<b>A-1219</b>				
<b>Supported Modbus Code: 01/02/05/15</b>				
Address 0X	Item			
00001-00004	0-3 DI Input Signal	R	R	NOTE
00065-00072	0-7 Burn-out Signal	R	R	1: Burn-out
000129-01152	0-1023 Auxiliary Memory (M Flag)	R/W	R/W	
<b>Supported Modbus Code: 03/04/06/16</b>				
Address 4X	Item			
40001-40008	0-7 Current Input Value	R	R	0-20000:0-20mA/4-20mA 0-19000:-100-+1800° C
40065-40072	0-7 Input Type Code	R	R/W	0: 4-20mA 1: 0-20mA 2: J(0-760° C) 3: K(0-1,370° C) 4: T(-100-400° C) 5: E(0-1,000° C) 6: R(500-1,750° C) 7: S(500-1,750° C) 8: B(500-1,800° C) 9: 10K-2 Thermistor(0-+100° C) 10: 10K-3 Thermistor(0-+100° C) 11: 6.8K Thermistor(0-+100° C) 12: 4.7K Thermistor(0-+100° C) 13: 3.3K Thermistor(0-+100° C) 14: 3K Thermistor(0-+100° C) 15: 2.7K Thermistor(0-+100° C) 16: 2.25K Thermistor(0-+100° C) 17: 2.1K Thermistor(0-+100° C) 18: 2K Thermistor(0-+100° C) 19: 1.5K Thermistor(0-+100° C) 20: 1K Thermistor(0-+100° C)
40097-400104	0-7 Current Input Value	R	R	4/0-20:4/0-20mA -100-+1800:-100-+1800° C
40113-40120	0-7 Current Input Value	R	R	4/0-20:4/0-20mA -148-+3272:-148-+3272° F
40129-40136	0-7 Current Input Value	R	R	40/0-200:4.0/0-20.0mA -1000-+18000:-100.0-+1800.0° C
40145-40152	0-7 Current Input Value	R	R	40/0-200:4.0/0-20.0mA -1480-+32720:-148.0-+3272.0° F
40161-40168	0-7 Current Input Value	R	R	0-10000:0.00-100.00% of FSR
40177	Communication Fail Safe Time Setting Value	R	R/W	0-65535:Disable-65535msec
40178	All DI Value	R	R	
40211	Module Name 1	R	R	0x12 0x19
40212	Module Name 2	R	R	
40213	Version 1	R	R	0x01 0x12
40214	Version 2	R	R	
40215-40220	1-6 Mac Serial Number	R	R	
40300	Module's ID in normal mode	R	R/W	1-255
40301	Protocol in normal mode	R	R/W	0: RTU 1: ASCII
40302	Baud rate in normal mode	R	R/W	1: 2400 bps 2: 4800 bps 3: 9600 bps 4: 14400 bps 5: 19200 bps 6: 28800 bps 7: 38400 bps 8: 57600 bps 9: 115200 bps 10: 230400 bps 11: 460800 bps 12: 921600 bps
40303	Parity option in normal mode	R	R/W	0: None 1: Odd 2: Even
40304	Stop bits in normal mode	R	R/W	0: 1 bit 1: 2 bit
40305	Time Out Setting in normal mode	R	R/W	0-65535 msec
40609-40624	0-7 Current Input Value	R	R	32-bit Floating Value (IEEE754)(Float CD AB)
40641-40656	0-7 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754)(Float CD AB)
40673-40688	0-7 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754)(Float CD AB)
40705-40720	0-7 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float AB CD)
40737-40752	0-7 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754) (Float AB CD)
40769-40784	0-7 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754) (Float AB CD)
40801-40816	0-7 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float BA DC)
40833-40848	0-7 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754) (Float BA DC)
40865-40880	0-7 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754) (Float BA DC)
40897-40912	0-7 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float DC BA)
40929-40944	0-7 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754) (Float DC BA)
40961-40976	0-7 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754) (Float DC BA)
41281-41408	0-127 Analog Auxiliary Memory (AM Flag)	R/W	R/W	0-65535
40401	WIFI Mode	R	R/W	0: AP(default) 1: Remote
40402	WIFI Encryption (WPA2)	R	R/W	0: DISABLE(default) 1: ENABLE
40403-40434	WIFI SSID	R	R/W	Default : 12WIFI
40435-40498	WIFI Password	R	R/W	Default : 88888888
40499	WIFI Channel	R	R/W	0- 13 0: auto(default) / 1-13CH
40500-40503	WIFI IP	R	R/W	IP:x.x.x.x default : 192.168.1.1
40504-40507	WIFI MASK	R	R/W	MASK: x.x.x.x default:255.255.255.0
40508-40511	WIFI GATEWAY	R	R/W	GATEWAY: x.x.x.x Default:0.0.0.0
40512	WIFI MODBUS ID	R	R/W	INIT*: 0 ,NOR:1-255
40513	WIFI LOCAL PORT	R	R/W	1-65535 Default :502
40514	WIFI REMOTE PORT	R	R/W	1-65535 Default:2000
40515	WIFI DHCP Enable	R	R/W	0:ENABLE(default) 1:DISABLE
40516	WIFI PROTOCOL	R	R/W	0:Modbus TCP/IP(default) 1:Modbus UDP/IP 2:Modbus RTU Over TCP/IP 3:Modbus RTU Over UDP/IP
40517	WIFI TX POWER	R	R/W	0: Auto(default) step :1-12
40518-40523	MAC ADDRESS	R	R	EX: 00-05-5D-E8-0F-A3

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# Address Mapping

## Remote Modules

### Remote Modules

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Mapping Table

<b>A-1251/A-1255/A-1260/A-1269</b>				
<b>Supported Modbus Code:</b>	01/02/05/15			
Address 0X	Item	NOR	INIT*	NOTE
00001-00016	0-15 DI Input Signal	R	R	
00017-00032	0-15 DO Output Value	R/W	R/W	
00033-00048	0-15 Power On Digital Output Value	R	R/W	
00049-00064	0-15 Communication Fail Safe Value	R	R/W	
000129-01152	0-1023 Auxiliary Memory (M Flag)	R/W	R/W	
<b>Supported Modbus Code:</b>	03/04/06/16	NOR	INIT*	NOTE
Address 4X	Item			
40001-40016	0-15 Current Input Value	R	R	0-4000:0-10V
40097-40112	0-15 Current Input Value	R	R	0-10:0-10V
40129-40144	0-15 Current Input Value	R	R	0-1000:0-10V
40161-40176	0-15 Current Input Value	R	R	0-1000:0.00-100.0% ofFSR
40177	Communication Fail Safe Time Setting Value	R	R/W	0-65535:Disable-65535msec
40178	All DI Value	R	R	
40211	Module Name 1	R	R	0x12 0x60
40212	Module Name 2	R	R	
40213	Version 1	R	R	0x01 0x12
40214	Version 2	R	R	
40215-40220	1-6Mac Serial Number	R	R	
40300	Module's ID in normal mode	R	R/W	1-255
40301	Protocol in normal mode	R	R/W	0: RTU 1: ASCII
40302	Baud rate in normal mode	R	R/W	1 : 2400 bps 2 : 4800 bps 3 : 9600 bps 4 : 14400 bps 5 : 19200 bps 6 : 28800 bps 7 : 38400 bps 8 : 57600 bps 9 : 115200 bps 10 : 230400 bps 11 : 460800 bps 12 : 921600 bps
40303	Parity option in normal mode	R	R/W	0 : None 1 : Odd 2 : Even
40304	Stop bits in normal mode	R	R/W	0 : 1 bit 1 : 2 bit
40305	Time Out Setting in normal mode	R	R/W	0-65535 msec
40609-40640	0-15 Current Input Value	R	R	32-bit Floating Value (IEEE754)(Float CD AB)
40705-40736	0-15 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float AB CD)
40801-40832	0-15 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float BA DC)
40897-40928	0-15 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float DC BA)
41281-41408	0-127Analog Auxiliary Memory (AM Flag)	R/W	R/W	0-65535
40401	WiFi Mode	R	R/W	0:AP(default) 1:Remote
40402	WiFi Encryption (WPA2)	R	R/W	0:DISABLE(default) 1:ENABLE
40403-40434	WiFi SSID	R	R/W	Default : 12WiFi
40435-40498	WiFi Password	R	R/W	Default : 88888888
40499	WiFi Channel	R	R/W	0- 13 0: auto(default) / 1-13CH
40500-40503	WiFi IP	R	R/W	IP:x.x.x.x default : 192.168.1.1
40504-40507	WiFi MASK	R	R/W	MASK: x.x.x.x default:255.255.255.0
40508-40511	WiFi GATEWAY	R	R/W	GATEWAY: x.x.x.x Default:0.0.0.0
40512	WiFi MODBUS ID	R	R/W	INIT*: 0 _NOR:1-255
40513	WiFi LOCAL PORT	R	R/W	1-65535 Default :502
40514	WiFi REMOTE PORT	R	R/W	1-65535 Default:2000
40515	WiFi DHCP Enable	R	R/W	0:ENABLE(default) 1:DISABLE
40516	WiFi PROTOCOL	R	R/W	0:Modbus TCP/IP(default) 1:Modbus UDP/IP 2:Modbus RTU Over TCP/IP 3:Modbus RTU Over UDP/IP
40517	WiFi TX POWER	R	R/W	0: Auto(default) step :1-12
40518-40523	MAC ADDRESS	R	R	EX: 00-05-5D-E8-0F-A3

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

# Address Mapping

## Remote Modules

### Remote Modules

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Mapping Table

<b>A-1812</b>				
<b>Supported Modbus Code:</b>	<b>01/02/05/15</b>			
Address 0X	Item	NOR	INIT*	NOTE
00001-00002	0-1 DI Input Signal	R	R	
00065-00066	0-1 Burn-out Signal	R	R	1:Burn-out (4-20mA only)
00067-00068	2-3 Burn-out Signal	R	R	1:Burn-out
000129-01152	0-1023 Auxiliary Memory (M Flag)	R/W	R/W	
<b>Supported Modbus Code: 03/04/06/16</b>				
Address 4X	Item	NOR	INIT*	NOTE
40001-40002	0-1 Current Input Value	R	R	0-20000:0/4-20mA
40003-40004	2-3 Current Input Value	R	R	0-8000:-200-+600° C
40017-40018	0-1 Current Output Value	R/W	R/W	0-4000:0/4-20mA
40033-40034	Power On Analog Output Value	R	R/W	0-4000:0/4-20mA
40049-40050	0-1 Communication Fail Safe Analog Output Value	R	R/W	0-4000:0/4-20mA
40065-40066	0-1 Input Type Code	R	R/W	0:4-20mA 1: 0-20mA
40067-40068	2-3 Input Type Code	R	R/W	0:PT-100 $\alpha = 0.00385$ 1:PT-100 $\alpha = 0.003916$ 2:PT-1000 $\alpha = 0.00385$ 3:PT-1000 $\alpha = 0.003916$
40081-40082	0-1 Output Type Code	R	R/W	0:4-20mA 1: 0-20mA
40097-40098	0-1 Current Input Value	R	R	4/0-20:4/0-20mA
40099-40100	2-3 Current Input Value	R	R	-200-+600:-200-+600° C
40113-40114	0-1 Current Input Value	R	R	4/0-20:4/0-20mA
40115-40116	2-3 Current Input Value	R	R	-328-+1112:-328-+1112° F
40129-40130	0-1 Current Input Value	R	R	40/0-200:4.0/0-20.0mA
40131-40132	2-3 Current Input Value	R	R	-2000-+6000:-200.0-+600.0° C
40145-40146	0-1 Current Input Value	R	R	40/0-200:4.0/0-20.0mA
40147-40148	2-3 Current Input Value	R	R	-3280-+11120:-328.0-+1112.0° F
40161-40164	0-3 Current Input Value	R	R	0-10000:0.00-100.00% of FSR
40177	Communication Fail Safe Time Setting Value	R	R/W	0-65535:Disable-65535msec
40178	All DI Value	R	R	
40211	Module Name 1	R	R	0x18 0x12
40212	Module Name 2	R	R	
40213	Version 1	R	R	0x01 0x12
40214	Version 2	R	R	
40215-40220	1-6 Mac Serial Number	R	R	
40306-40369	0-63 Analog Auxiliary Memory (AM Flag)	R/W	R/W	0-65535
40609-40616	0-3 Current Input Value	R	R	32-bit Floating Value (IEEE754)(Float CD AB)
40641-40648	0-3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754)(Float CD AB)
40673-40680	0-3 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754)(Float CD AB)
40705-40712	0-3 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float AB CD)
40737-40744	0-3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754) (Float AB CD)
40769-40776	0-3 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754) (Float AB CD)
40801-40808	0-3 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float BA DC)
40833-40840	0-3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754) (Float BA DC)
40865-40872	0-3 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754) (Float BA DC)
40897-40904	0-3 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float DC BA)
40929-40936	0-3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754) (Float DC BA)
40961-40968	0-3 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754) (Float DC BA)
40500-40503	Ethernet IP	R	R/W	IP:x.x.x.x default : 192.168.1.1
40504-40507	Ethernet MASK	R	R/W	MASK: x.x.x.x default:255.255.255.0
40508-40511	Ethernet GATEWAY	R	R/W	GATEWAY: x.x.x.x Default:192.168.1.1
40512	Ethernet MODBUS ID	R	R/W	INIT*: 0 ,NOR:1-255
40513	Ethernet LOCAL PORT	R	R/W	1-65535 Default :502
40514	Ethernet REMOTE PORT	R	R/W	1-65535 Default:2000
40515	Ethernet DHCP Enable	R	R/W	0:ENABLE(default) 1:DISABLE
40516	Ethernet PROTOCOL	R	R	0:Modbus TCP/IP(default)
40518-40523	MAC ADDRESS	R	R	EX: 00-05-5D-E8-0F-A3

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

# Address Mapping

## Remote Modules

### Remote Modules

Mapping Table

<b>A-1819</b>				
<b>Supported Modbus Code:</b>	<b>01/02/05/15</b>			
Address 0X	Item	NOR	INIT*	NOTE
00065-00072	0-7 Burn-out Signal	R	R	1: Burn-out
000129-01152	0-1023 Auxiliary Memory (M Flag)	R/W	R/W	
<b>Supported Modbus Code: 03/04/06/16</b>				
Address 4X	Item	NOR	INIT*	NOTE
40001-40008	0-7 Current Input Value	R	R	0-20000.0-20mA/4-20mA 0-19000.-100-+1800° C
40065-40072	0-7 Input Type Code	R	R/W	0: 4-20mA 1: 0-20mA 2: J(0-760° C) 3: K(0-1,370° C) 4: T(-100-400° C) 5: E(0-1,000° C) 6: R(500-1,750° C) 7: S(500-1,750° C) 8: B(500-1,800° C) 9: 10K-2 Thermistor(0-+100° C) 10: 10K-3 Thermistor(0-+100° C) 11: 6.8K Thermistor(0-+100° C) 12: 4.7K Thermistor(0-+100° C) 13: 3.3K Thermistor(0-+100° C) 14: 3K Thermistor(0-+100° C) 15: 2.7K Thermistor(0-+100° C) 16: 2.252K Thermistor(0-+100° C) 17: 2.1K Thermistor(0-+100° C) 18: 2K Thermistor(0-+100° C) 19: 1.5K Thermistor(0-+100° C) 20: 1K Thermistor(0-+100° C)
40097-400104	0-7 Current Input Value	R	R	4/0-20: 4/0-20mA -100-+1800.-100-+1800° C
40113-40120	0-7 Current Input Value	R	R	4/0-20: 4/0-20mA -148-+3272.-148-+3272° F
40129-40136	0-7 Current Input Value	R	R	40/0-200: 4.0/0-20.0mA -1000-+18000.-100.0-+1800.0° C
40145-40152	0-7 Current Input Value	R	R	40/0-200: 4.0/0-20.0mA -1480-+32720.-148.0-+3272.0° F
40161-40168	0-7 Current Input Value	R	R	0-10000.0.00-100.00% of FSR
40177	Communication Fail Safe Time Setting Value	R	R/W	0-65535: Disable-65535msec
40211	Module Name 1	R	R	0x18 0x19
40212	Module Name 2	R	R	
40213	Version 1	R	R	
40214	Version 2	R	R	
40215-40220	1-6 Mac Serial Number	R	R	
40609-40624	0-7 Current Input Value	R	R	32-bit Floating Value (IEEE754)(Float CD AB)
40641-40656	0-7 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754)(Float CD AB)
40673-40688	0-7 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754)(Float CD AB)
40705-40720	0-7 Current Input Value	R	R	32-bit Floating Value (IEEE754)(Float AB CD)
40737-40752	0-7 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754)(Float AB CD)
40769-40784	0-7 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754)(Float AB CD)
40801-40816	0-7 Current Input Value	R	R	32-bit Floating Value (IEEE754)(Float BA DC)
40833-40848	0-7 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754)(Float BA DC)
40865-40880	0-7 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754)(Float BA DC)
40897-40912	0-7 Current Input Value	R	R	32-bit Floating Value (IEEE754)(Float DC BA)
40929-40944	0-7 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754)(Float DC BA)
40961-40976	0-7 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754)(Float DC BA)
40306-40369	0-63 Analog Auxiliary Memory (AM Flag)	R/W	R/W	0-65535
40500-40503	Ethernet IP	R	R/W	IP: x.x.x.x default: 192.168.1.1
40504-40507	Ethernet MASK	R	R/W	MASK: x.x.x.x default: 255.255.255.0
40508-40511	Ethernet GATEWAY	R	R/W	GATEWAY: x.x.x.x Default: 192.168.1.1
40512	Ethernet MODBUS ID	R	R/W	INIT*: 0 ,NOR: 1-255
40513	Ethernet LOCAL PORT	R	R/W	1-65535 Default: 502
40514	Ethernet REMOTE PORT	R	R/W	1-65535 Default: 2000
40515	Ethernet DHCP Enable	R	R/W	0: ENABLE(default) 1: DISABLE
40516	Ethernet PROTOCOL	R	R	0: Modbus TCP/IP(default)
40518-40523	MAC ADDRESS	R	R	EX: 00-05-5D-E8-0F-A3

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





# Address Mapping

## Remote Modules

### Remote Modules

#### Mapping Table

<b>A-1012</b>					
<b>Supported Modbus Code:</b>	<b>01/02/05/15</b>				
Address 0X	Item	NOR	INIT*	NOTE	
00001-00002	0-1 DI Input Signal	R	R		
00017-00018	0-1 DO Output Value	R/W	R/W		
00033-00034	0-1 Power On Digital Output Value	R	R/W		
00049-00050	0-1 Communication Fail Safe Value	R	R/W		
00065-00066	0-1 Burn-out Signal	R	R	1:Burn-out (4-20mA only)	
00067-00068	2-3 Burn-out Signal	R	R	1:Burn-out	
000129-01152	0-1023 Auxiliary Memory (M Flag)	R/W	R/W		
<b>Supported Modbus Code:</b>	<b>03/04/06/16</b>				
Address 4X	Item	NOR	INIT*	NOTE	
40001-40002	0-1 Current Input Value	R	R	0-20000:0/4-20mA	
40033-40034	2-3 Current Input Value	R	R	0-8000:-200-+600° C	
40017-40018	0-1 Current Output Value	R/W	R/W	0-4000:0/4-20mA	
40065-40066	Power On Analog Output Value A00	R	R/W	0-4000:0/4-20mA	
40067-40068	0-1 Communication Fail Safe Analog Output Value	R	R/W	0-4000:0/4-20mA	
40065-40066	0-1 Input Type Code	R	R/W	0:4-20mA 1: 0-20mA	
40067-40068	2-3 Input Type Code	R	R/W	0:PT-100 $\alpha=0.00385$ 1:PT-100 $\alpha=0.003916$ 2:PT-1000 $\alpha=0.00385$ 3:PT-1000 $\alpha=0.003916$	
40081-40082	0-1 Output Type Code	R	R/W	0:4-20mA 1: 0-20mA	
40097-40098	0-1 Current Input Value	R	R	4/0-20:4/0-20mA	
40099-40100	2-3 Current Input Value	R	R	-200-+600:-200-+600° C	
40113-40114	0-1 Current Input Value	R	R	4/0-20:4/0-20mA	
40115-40116	2-3 Current Input Value	R	R	-328-+1112:-328-+1112° F	
40129-40130	0-1 Current Input Value	R	R	40/0-200:4.0/0-20.0mA	
40131-40132	2-3 Current Input Value	R	R	-2000-+6000:-200.0-+600.0° C	
40145-40146	0-1 Current Input Value	R	R	40/0-200:4.0/0-20.0mA	
40147-40148	2-3 Current Input Value	R	R	-3280-+11120:-328.0-+1112.0° F	
40161-40164	0-3 Current Input Value	R	R	0-10000:0.00-100.00% ofFSR	
40177	Communication Fail Safe Time Setting Value	R	R/W	0-65535:Disable-65535msec	
40178	All DI Value	R	R		
40211	Module Name 1	R	R	0x10 0x12	
40212	Module Name 2	R	R		
40213	Version 1	R	R	0x01 0x12	
40214	Version 2	R	R		
40215-40220	1-6Mac Serial Number	R	R		
40300	Module's ID in normal mode	R	R/W	1-255	
40301	Protocol in normal mode	R	R/W	0: RTU 1: ASCII	
40302	Baud rate in normal mode	R	R/W	1 : 2400 bps 2 : 4800 bps 3 : 9600 bps 4 : 14400 bps 5 : 19200 bps 6 : 28800 bps 7 : 38400 bps 8 : 57600 bps 9 : 115200 bps 10 : 230400 bps 11 : 460800 bps 12 : 921600 bps	
40303	Parity option in normal mode			0 : None 1 : Odd 2 : Even	
40304	Stop bits in normal mode	R	R/W	0 : 1 bit 1 : 2 bit	
40305	Time Out Setting in normal mode	R	R/W	0-65535 msec	
40609-40616	0-3 Current Input Value	R	R	32-bit Floating Value (IEEE754)(Float CD AB)	
40641-40648	0-3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754)(Float CD AB)	
40673-40680	0-3 Current Input Value	R	R	32-bit Deg.F Floating Value (IE)	
40705-40712	0-3 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float AB CD)	
40737-40744	0-3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754) (Float AB CD)	
40769-40776	0-3 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754) (Float AB CD)	
40801-40808	0-3 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float BA DC)	
40833-40840	0-3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754) (Float BA DC)	
40865-40872	0-3 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754) (Float BA DC)	
40897-40904	0-3 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float DC BA)	
40929-40936	0-3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754) (Float DC BA)	
40961-40968	0-3 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754) (Float DC BA)	
41281-41408	0-127 Analog Auxiliary Memory (AM Flag)	R/W	R/W	0-65535	

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

# Address Mapping

## Remote Modules

### Remote Modules

Mapping Table

<b>A-1019</b>				
<b>Supported Modbus Code:</b>	<b>01/02/05/15</b>			
Address 0X	Item	NOR	INIT*	NOTE
00001-00004	0-3 DI Input Signal	R	R	
00065-00072	0-7 Burn-out Signal	R	R	1: Burn-out
000129-01152	0-1023 Auxiliary Memory (M Flag)	R/W	R/W	
<b>Supported Modbus Code:</b>	<b>03/04/06/16</b>			
Address 4X	Item	NOR	INIT*	NOTE
40001-40008	0-7 Current Input Value	R	R	0-20000:0-20mA/4-20mA 0-19000:100~+1800° C
40065-40072	0-7 Input Type Code	R	R/W	0: 4-20mA 1: 0-20mA 2: J(0-760° C) 3: K(0-1,370° C) 4: T(-100-400° C) 5: E(0-1,000° C) 6: R(500-1,750° C) 7: S(500-1,750° C) 8: B(500-1,800° C) 9: 10K-2 Thermistor(0~+100° C) 10: 10K-3 Thermistor(0~+100° C) 11: 6.8K Thermistor(0~+100° C) 12: 4.7K Thermistor(0~+100° C) 13: 3.3K Thermistor(0~+100° C) 14: 3K Thermistor(0~+100° C) 15: 2.7K Thermistor(0~+100° C) 16: 2.25K Thermistor(0~+100° C) 17: 2.1K Thermistor(0~+100° C) 18: 2K Thermistor(0~+100° C) 19: 1.5K Thermistor(0~+100° C) 20: 1K Thermistor(0~+100° C)
40097-400104	0-7 Current Input Value	R	R	4/0-20:4/0-20mA -100~+1800:-100~+1800° C
40113-40120	0-7 Current Input Value	R	R	4/0-20:4/0-20mA -148~+3272:-148~+3272° F
40129-40136	0-7 Current Input Value	R	R	40/0-200:4.0/0-20.0mA -1000~+18000:-100.0~+1800.0° C
40145-40152	0-7 Current Input Value	R	R	40/0-200:4.0/0-20.0mA -1480~+32720:-148.0~+3272.0° F
40161-40168	0-7 Current Input Value	R	R	0-10000:0.00-100.00% of FSR
40177	Communication Fail Safe Time Setting Value	R	R/W	0-65535:Disable-65535msec
40178	All DI Value	R	R	
40211	Module Name 1	R	R	0x12 0x19
40212	Module Name 2	R	R	
40213	Version 1	R	R	0x01 0x12
40214	Version 2	R	R	
40215-40220	1-6 Mac Serial Number	R	R	
40300	Module's ID in normal mode	R	R/W	1-255
40301	Protocol in normal mode	R	R/W	0: RTU 1: ASCII
40302	Baud rate in normal mode	R	R/W	1: 2400 bps 2: 4800 bps 3: 9600 bps 4: 14400 bps 5: 19200 bps 6: 28800 bps 7: 38400 bps 8: 57600 bps 9: 115200 bps 10: 230400 bps 11: 460800 bps 12: 921600 bps
40303	Parity option in normal mode	R	R/W	0: None 1: Odd 2: Even
40304	Stop bits in normal mode	R	R/W	0: 1 bit 1: 2 bit
40305	Time Out Setting in normal mode	R	R/W	0-65535 msec
40609-40624	0-7 Current Input Value	R	R	32-bit Floating Value (IEEE754)(Float CD AB)
40641-40656	0-7 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754)(Float CD AB)
40673-40688	0-7 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754)(Float CD AB)
40705-40720	0-7 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float AB CD)
40737-40752	0-7 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754) (Float AB CD)
40769-40784	0-7 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754) (Float AB CD)
40801-40816	0-7 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float BA DC)
40833-40848	0-7 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754) (Float BA DC)
40865-40880	0-7 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754) (Float BA DC)
40897-40912	0-7 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float DC BA)
40929-40944	0-7 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754) (Float DC BA)
40961-40976	0-7 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754) (Float DC BA)
41281-41408	0-127 Analog Auxiliary Memory (AM Flag)	R/W	R/W	0-65535

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



# Address Mapping

## Remote Modules

### Remote Modules

Mapping Table

<b>A-1010</b>				
<b>Supported Modbus Code:</b>	<b>01/02/05/15</b>			
Address 0X	Item	NOR	INIT*	NOTE
00001-00008	0-7 DI Input Signal	R	R	
00017-00020	0-3 Digital Output Value	R/W	R/W	
00033-00036	0-3 Power On Digital Output Value	R	R/W	
00049-00052	0-3 Communication Fail Safe Value	R	R/W	
04097-06144	0-2047 Auxiliary Memory (M Flag)	R/W	R/W	
06145-06400	0-255 Retentivity Auxiliary Memory (KM Flag)	R/W	R/W	
<b>Supported Modbus Code: 03/04/06/16</b>				
Address 4X	Item	NOR	INIT*	NOTE
40001-40008	0-7 Analog Input Value	R	R	0-1000:0-10V
40017-40018	0-1 Analog Output Value	R/W	R/W	0-1000:0-10V
40033-40034	0-1 Power On Analog Output Value	R	R/W	0-1000:0-10V
40049-40050	0-1 Communication Fail Safe Analog Output Value	R	R/W	0-1000:0-10V
40065	Communication Fail Safe Time Setting Value	R	R/W	0-65535: 0.0-6553.5 sec
40211	Module Name 1	R	R	
40212	Module Name 2	R	R	
40213	Soft Version 1	R	R	
40214	Soft Version 2	R	R	
40215	Communication Safety Enabled	R	R	
40216	Communication Safety Flag	R	R	
40217-40222	1-6 Mac Serial Number	R	R	
40223	Mac internal temperature (° C)	R	R	
40224	History Temperature_min (° C)	R	R	
40225	History Temperature_max (° C)	R	R	
40300	Module's ID in normal mode	R	R/W	1-255
40301	Protocol in normal mode	R	R/W	0: RTU 1: ASCII
40302	Baud rate in normal mode	R	R/W	1: 2400 bps 2: 4800 bps 3: 9600 bps 4: 14400 bps 5: 19200 bps 6: 28800 bps 7: 38400 bps 8: 57600 bps 9: 115200 bps 10: 230400 bps 11: 460800 bps 12: 921600 bps
40303	Parity option in normal mode	R	R/W	0: None 1: Odd 2: Even
40304	Stop bits in normal mode	R	R/W	0: 1 bit 1: 2 bit
40305	Normal Mode Time Out Setting	R	R/W	0-65535:0 ~ 65535 msec
40409-40416	0-7 Input Signal Count Value (16-BIT)	R/W	R/W	0-0xFFFF
40425-40439	0-7 Input Signal Count Value (32-BIT)	R/W	R/W	0-0xFFFFFFFF
40457-40485	0-7 Input Signal Count Value (64-BIT)	R/W	R/W	0-0xFFFFFFFFFFFFFFFF
40521-40528	0-7 Analog Input hi-lo level Value	R	R/W	0-1000:(ex:350 = 3.5V), default =350
44001-46048	0-2047 Analog Auxiliary Memory (AM Flag)	R/W	R/W	0-65535
46049-46112	0-63 Retentivity Analog Auxiliary Memory (KAM Flag)	R/W	R/W	0-65535

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

