

A-5389 Distributed Control System



Android



A-5389 Ethernet DCS

eAutomation Solution

 **Yottacontrol Co.**

Central Processing Units

Ethernet Distributed Control System

A-5389 Ethernet

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OVERVIEW

- ※ Creation Of Control Programs In Function Block Diagram (FBD) Or Ladder Diagram (LAD)
- ※ 4-Axis Synchronous Motion, 100 KHz PWM (Total 400KHz)
- ※ Able To Edit The Parameter Among The Controller Operation
- ※ Multiple AUTO-PI Synchronous Function
- ※ Multi-Lingual Display Menu
- ※ Enhance Password & Safety Function
- ※ Text Display Can Be Pre-Programmed In Two Languages
- ※ Built-in Standard High Frequency Counter (250KHz Per Input, Total 1000KHz)
- ※ Built-in Standard Real Time Clock (RTC)
- ※ PC Program Can Be Used For All A-61/52/62 Series
- ※ ATP2 Text Panel Can Plug & Play Directly
- ※ Built-in Standard RS-485 Port, Connect More Than 10000 Ios Via Remote IO Module
- ※ Connect Encoder & Multi-Sensors Directly
- ※ Built-in Step Motor Driver, Connect Directly
- ※ Built-in Datalog Function, MicroSD Plug-in
- ※ Display Text Display Diversity Patterns, Scrolling Text, Bar Charts, Indicators
- ※ 116 FBD Integrated Functions, 111 LD Integrated Functions
- ※ Astronomical Clock Function
- ※ ATP2 Text Panel Built-in Function Key
- ※ Digital Oscilloscope Function, Real-Time Monitoring
- ※ High-Level Math Functions
- ※ Communication Protocol MODBUS TCP-IP/RTU/ASCII & Multi Format
- ※ Block Name Define, Program Comment
- ※ Communication Baud Rate 921600 bps
- ※ Custom Truth Table, Without Logical Analysis
- ※ Multi Communication Parameter Function
- ※ Quick Calculation Of Nonlinear Equations
- ※ Random Generator Hardware
- ※ Free PC Software "Yotta Edit" + "YottaUtility"
- ※ The A-3290 Two-Way Communicate Transmitter
- ※ Able To Connect Wi-Fi AP, Internet Of Things (IOT), Remote Control
- ※ Able To Use For Master Or Slave Application
- ※ Able To Set For Ethernet To MODBUS 3-port Gateways
- ※ Able To Set For Ethernet to MODBUS 3-port Serial Device Servers
- ※ Built-in Voltage Input + Current Output



For more information, please refer to
www.yottacontrol.com

Type	A-5389
Operation Voltage	10~30VDC / 24VAC
Digital Inputs	14*DI(Isolation) status low:<3.9VDC status high:>4VDC
Digital Outputs	8*Isolation(Relay)
Continuous Current	Relay:5A (with resistive load), 2 A (with inductive load)
Analog Inputs	4*AI(0~10VDC)
Analog Outputs	2*AO(0/4~20mA)
Input Operating Frequency	250KHZ(Total 1000KHZ)
RTC/ Hold During Power Off	Yes
Operation Temperature	-20 to +75 °C
Communication Ports	USB*1 & RS-485*2 & RS-232*1 & Ethernet(100M)
Degree Of Protection	IP20
Memory card	Micro SD
Base Controller Ios	28 AIOs
Installation	35 mm DIN rail or Flush mounting

Two-Way communicate Transmitter

The A-3290 Two-Way communicate Transmitter

A-3290



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OVERVIEW

- ※ Suitable For the A-53x Series Controller
- ※ Plug & Play Directly
- ※ Multi-Lingual Display Menu
- ※ IP66 Protection
- ※ Built-in Function Key & Twin Display
- ※ Standard 2.4GHz IEEE 802.11 b/g (Wi-Fi)
- ※ Dual Watchdog Timer
- ※ Support WPA2-PSK(AES)
- ※ Multi-Channel & Multi-Clustering Can Be Used Simultaneously, No ID groups Limit
- ※ Function keys: 7



For more information, please refer to
www.yottacontrol.com



Type	A-3290 (Wi-Fi Two-Way Communicate Transmitter)
Operation Voltage	AA Battery *2
Display	---
Contrast	---
Resolution	---
STN Display Life	---
Brightness	---
Display Color	---
Function Keys	7
Display Dimension	---
Operation Temperature	-20 to +75 °C
Degree Of Protection	IP66
Communication	Standard 2.4GHz IEEE 802.11 b/g (Wi-Fi)
Dimension (W x H x D)	120*55*30 mm

Text Panel

PLC Text Panel

ATP2

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OVERVIEW

- ※ Use For All Yottacontrol A-51/52/53/61/62 Series
- ※ Plug & Play
- ※ Multi-Lingual Display & Setting
- ※ Able To Edit The Parameter Among The Controller Operation
- ※ Enhance Password & Safety Function
- ※ Display Text Display Diversity Patterns, Scroll-in Text, Bar Charts, Indicators
- ※ Built-in Function Key
- ※ Digital Oscilloscope Function, Real-Time Monitoring
- ※ Support Start-Up Screen
- ※ RS-485 Interface
- ※ Resolution: 192*64 pixels
- ※ Dual Watchdog Timer
- ※ Surge, EFT & ESD Protection
- ※ IP65 Protection



For more information, please refer to
www.yottacontrol.com

Type	ATP2 (Text Panel)
Operation Voltage	10~30VDC/24VAC
LCM	4.3 " STN
Contrast	Adjustable resistor
Resolution	192*64 pixels
LCM Life	>50000 hr
Brightness	60cd/m2
Color	Monochrome
Function Key	5-KEY
Display Dimension	96*32 mm
Operation Temperature	-10 to +55 °C
Degree Of Protection	IP65(Front Panel)
Installation	35 mm DIN rail or Flush mounting
Dimension (W x H x D mm)	157.9*86.4*28.6 mm

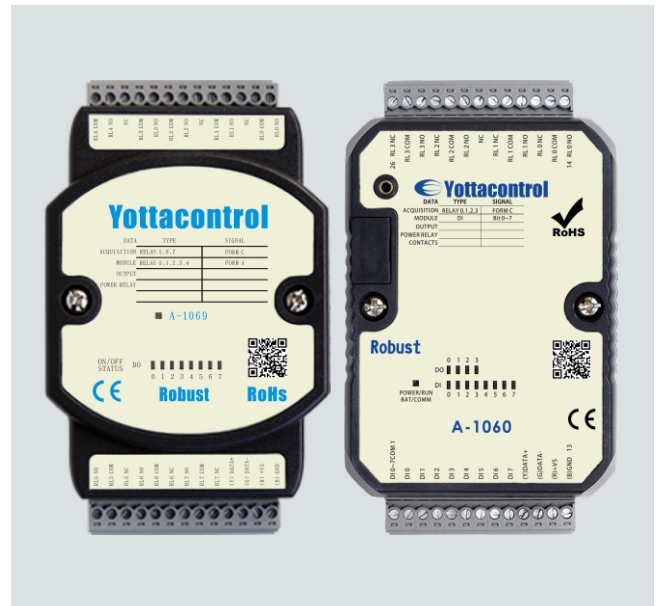
Remote Modules

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

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	
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

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

Type	A-1010	A-1012	A-1019	A-1013
	ADIO	ADIO	ADIO	ADIO
Operation Voltage	10~30VDC / 24VAC			
Inputs	—	2*Isolation DI status low : <1VDC status high : >5~30VDC	4*Isolation DI status low : <1VDC status high : >5~30VDC	2*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)	8(16-bit)	4(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 (-270 ~ +1800°C)	2*0/2~10V 2*PT-100/1000 (-200 ~ +600 °C)
Analog Outputs	2(10-bit)	2(12-bit)	—	2(12-bit)
Analog Output Type	0~10V	0/4~20mA	—	0/2~10V
Input Impedance	Voltage:10 MΩ	Current : 100 Ω / RTD : 10MΩ	Current: 100 Ω / Voltage : 10 MΩ	Current : 100 Ω / RTD : 10MΩ
AnalogInput / Output Accuracy	±1% / ±1%	±0.1% / ±1%	±0.1% / ---	±0.1% / ±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:-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)			

Isolation Remote Modules

Isolation RS-485 Analog I/O Remote Modules

A-1036+

OVERVIEW

- ※ Analog Output Channels : 6
- ※ 12-bit resolution
- ※ Software configurable for 4~20mA or 0~20mA output in individual channels
- ※ Burn-out Detection
- ※ Supports Modbus RTU / ASCII
- ※ LED Indicator
- ※ Surge , EFT And ESD Protection
- ※ Dual Watchdog Timer
- ※ Low Power Indicator
- ※ Operation Range: Up To 1200 Meters
- ※ Free PC Software "YottaUtility"
- ※ Isolation RS-485 Interface



For more information, please refer to
www.yottacontrol.com

Display	
LED Indicators	Power
Power Supply	
Power Requirement	10~30 VDC
Analog Output	
Channels	6
Current Output	0~20 mA, 4~20mA
Current Load	Max. 500 Ω
Resolution	12-bit
Accuracy	±1 % of FSR
General	
Watchdog Timer	System & Communication
Connector	2 x plug-in terminal block (#14~28 AWG)
Temperature (Operating)	-10~70 °C (14~158 °F)
Humidity	5~95 %RH
Temperature (Storage)	-25~85 °C (-13~185 °F)
Interface	Isolation RS-485
Communication Protocol	Modbus/RTU & Modbus/ASCII
Communication Speed	Serial: From 1,200 to 115.2 k
Comm. Distance	Serial: 1.2 km
Data Flow Control	Yes

Isolation Remote Modules

Isolation RS-485 Analog I/O Remote Modules

A-1038+

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OVERVIEW

- ※ Analog Output Channels : 8
- ※ 12-bit resolution
- ※ Software configurable for 0~10VDC output in individual channels
- ※ Supports Modbus RTU / ASCII
- ※ LED Indicator
- ※ Surge , EFT And ESD Protection
- ※ Dual Watchdog Timer
- ※ Low Power Indicator
- ※ Operation Range: Up To 1200 Meters
- ※ Free PC Software "YottaUtility "
- ※ Isolation RS-485 Interface
- ※ PWM Function
- ※ AB-Phase Function
- ※ 2048 bit Auxiliary Memory
- ※ 2048 word Auxiliary Memory



For more information, please refer to
www.yottacontrol.com

Display	
LED Indicators	Power
Power Supply	
Power Requirement	10~30 VDC
Analog Output	
Channels	8
Current Output	0 ~ 10 VDC
Resolution	12-bit
Accuracy	±1 % of FSR
General	
Watchdog Timer	System & Communication
Connector	2 x plug-in terminal block (#14~28 AWG)
Temperature (Operating)	-10~70 °C (14~158 °F)
Humidity	5~95 %RH
Temperature (Storage)	-25~85 °C (-13~185 °F)
Interface	Isolation RS-485
Communication Protocol	Modbus/RTU & Modbus/ASCII
Communication Speed	Serial: From 1,200 to 115.2 k
Comm. Distance	Serial: 1.2 km
Data Flow Control	Yes

Remote Modules

WIFI Analog I/O Remote Modules

A-12x Series



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), Industry 4.0
- ※ A-3290 Can Be Directly Connected To The Control Output, Without Any Controller
- ※ Free Monitor PC Software "YottaUtility"



For more information, please refer to
www.yottacontrol.com

Type	A-1251	A-1212	A-1219	A-1255/A-1255S	A-1260	A-1269	A-1213
	DI	ADIO	ADIO	ADIO	ADIO	ADIO	ADIO
Operation Voltage	10~30VDC / 24VAC						
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	---	2*Isolation DI status low : <1VDC status high : >5~30VDC
Outputs	---	2*(Transistor)	---	4*(Motor Driver/Source)	4*(Power Relay)	8*(Power Relay)	2*(Transistor)
Continuous Current	---	10~35VDC(1A)	---	8-60VDC(1.75A) /10-40VDC(1A)	250VAC(7A) /30VDC(7A)	250VAC(5A) /30VDC(5A)	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	—	4(16-bit)	8(16-bit)	4(12-bit)		4(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 (-270 ~ +1800°C)	4*0~10V		2*0/2~10V 2*PT-100/1000 (-200 ~ +600 °C)	
Analog Outputs	—	2(12-bit)	—	---		2(12-bit)	
Analog Output Type	—	0/4 ~20mA	—	---		0/2~10V	
Input Impedance	----	Current : 100 Ω RTD : 10MΩ	Current: 100 Ω Voltage : 10 MΩ	Voltage:10 MΩ		Current : 100 Ω RTD : 10MΩ	
AnalogInput / Output Accuracy	—	±0.1 % / ±1%	±0.1 % / ---	±1 % / ---		±0.1 % / ±1 %	
Interface	WIFI + 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:-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)						

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/2.25K/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 (UVL0)
- ※ Support MODBUS TCP/IP, MODBUS RTU
- ※ Flexible User-defined Modbus address
- ※ Support LAN 10/100 Mbps Communication Rate
- ※ Free Monitor PC Software "YottaUtility"



For more information, please refer to

www.yottacontrol.com

Type	A-1851	A-1812	A-1819	A-1855/A-1855S	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/Source)	4*(Power Relay)	8*(Power Relay)
Continuous Current	---	---	---	8-60VDC(1.75A) /10-40VDC(1A)	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 (-270 ~ +1800°C)	---	---	---
Analog Outputs	---	2 (12-bit)	---	---	---	---
Analog Output Type	---	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:-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-2.25K:-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)					

Remote Modules

Daisy Chain Ethernet I/O Remote Modules

A-19x Series



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OVERVIEW

- ※ Supports isolation protection to avoid system damage from high-energy noise
- ※ Auto-Bypass Protection
- ※ Flexible Deployment with Daisy Chain Networking
- ※ 5ch digital input
- ※ 4ch digital output
- ※ Support MODBUS TCP/IP, MODBUS RTU
- ※ Auto-bypass function to ensure daisy-chain data transmission
- ※ Built-in web server
- ※ Watchdog timer to recover the system
- ※ Ethernet Interface + USB Interface
- ※ Supports 8 Independent Sockets Simultaneously
- ※ Remote Monitoring And Control With Mobile Devices
- ※ Flexible User-defined Modbus address
- ※ Support LAN 10/100 Mbps Communication Rate
- ※ Free Monitor PC Software "YottaUtility"
- ※ Built-in Step Motor Driver, Connect Directly
- ※ Output Over Current Protection (OCP)
- ※ Output Over Thermal Protection (OTP)
- ※ Output Under Voltage Lockout (UVL0)



For more information, please refer to
www.yottacontrol.com

Type	A-1955	A-1955S	A-1960
	DIO	DIO	DIO
Operation Voltage	10~30VDC/24VAC		
Inputs	5*Isolation DI status low:<1VDC status high:>5~30VDC		
Outputs	4*DO(Motor Driver)	4*DO	4*DO(Power Relay)
Continuous Current	8~60VDC(1.75A)	10~40VDC(1A)	250VAC(5A)/30VDC(5A)
Communication Baud Rate	10/100Mbps		
Isolation	YES(5000VDC)		
Input Operating Frequency	10HZ		
Output Operating Frequency	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		
Interface	Ethernet * 2 + USB		
Channel Independent Configuration	YES		

Accessories

DCS Accessories

Accessories

OVERVIEW

- ※ ASPS Use For 24VDC
- ※ Standard Micro-SD-8GB
- ※ Micro-SD File Format *.CSV



For more information, please refer to
www.yottacontrol.com

Type	ASPS	USB 1800	Micro-SD-8GB
	48W Power Supply	Communication lines	Data Storage Card
Operation Voltage	1-phase 100/240 V AC	USB	PLC
PC Driver	---	Windows98/ME/2000/XP/Vista/7/8/ Server 2008/WinCE	— *.CSV
Support Models	A-1x/A-2x/A-3x/A-5x /A-6x/A-7x/TS/TC	A-53x	Micro-SD Type
Operation Temperature	-10 to +55 °C	-20 to +75 °C	-10 to +55 °C
Degree Of Protection	IP20	IP20	---
Installation	35 mm DIN rail or Flush mounting	PC or PLC	PC or PLC
Dimension(W x H x D)	73*90*60.3 mm	180cm	---
Input Frequency	50 / 60 Hz	---	---
Fuse	YES	---	---
OCP	YES	---	---
OTP	YES	---	---
24VDC(MAX)	2.0A	---	---
Output Voltage Stability	±8%	---	---
Ripple	100mV	---	---
Efficiency	>75%	---	---
Power LED	YES	---	---

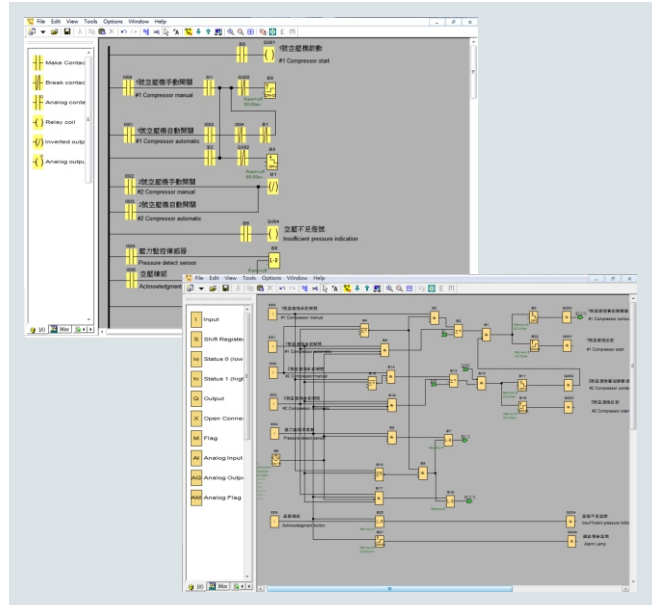
Software

PLC Edit Software

YottaEditor

OVERVIEW

- ※ Creation Of Control Programs In Function Block Diagram (FBD) Or Ladder Diagram (LAD)
- ※ Use For All Yottacontrol A-11/21/51/52/53/61 Series
- ※ Support Windows98/ME/2000/XP/Vista/7/8/10
- ※ Offline Simulation Can Edit Parameters
- ※ Online Simulation Can Monitor Parameters
- ※ Message Text Can Edit Multi-Lingual
- ※ Built-in Datalog Function, Use Standard MicroSD
- ※ Display Text Display Diversity Patterns, Scrollin Text, Bar Charts, Indicators
- ※ 116 FBD Integrated Functions, 111 LD Integrated Functions
- ※ Astronomical Clock Function
- ※ ATP2 Text Panel Built-in Function Key
- ※ Digital Oscilloscope Function, Real-Time Monitoring
- ※ High-Level Math Functions
- ※ Communicate Protocol MODBUS RTU/ASCII & Multi Format
- ※ Block Name Define, Program Comment
- ※ Custom Truth Table, Without Logical Analysis
- ※ Ladder Diagram Can Compile To Function Block Diagram



For more information, please refer to www.yottacontrol.com

F B D F u n c t i o n	AND	&	Input	I	PI controller	NOT Mask	1 MASK	Square root	SQRT
	AND	↑&	Function Key	F	PWM	NAND Mask	& MASK	Absolute value	ABS
	NAND	&	Shift Register Bit	S	Analog Filter	NOR Mask	≥1 MASK	GCD	GCD
	NAND	↓&	Status 0 (low)	lo	MaxMin	XOR Mask	=1 MASK	LCM	LCM
	OR	≥1	Status 1 (high)	hi	Average Value	Data array Max/Min/Avg	AXIV	2 ' s nth power	POW2
	NOR	≥1	Output	Q	Latching Relay	Data Max/Min/Avg	DXIV	e ' s nth power	EXP
	XOR	=1	Open Connector	X	Pulse Relay	RAND	Rand	Fixed-point arithmetic	FIX
	NOT	1	Flag	M	Message Texts	MEM	MEM	Round-off	round
	On-Delay	ON-D	Analog Inut	AI	Shift Register	Encoder	ENC	Sine function	SIN
	Off-Delay	OFF-D	Analog Output	AQ	Mathematical instruction error detection	Stepping Motor Control	SMC	Cosine function	COS
	On-/Off-Delay	ON/OFF	Analog Flag	AM	Modbus Read	Stepping Motor Control(Edge)	SMCE	Tangent function	TAN
	Retentive On-Delay	ON-D	Up/Down Counter	U/D	Modbus Write	Pulse train output	PTO	Cotangent function	COT
	Wiping Relay (pulse output)	WR	Hours Counter	H-C	Boolean function	Pulse train output (Edge)	PTOE	Secant function	SEC
	Edge Triggered Wiping Relay	ETWR	Threshold Trigger	TT	Trigger date time	Segment display	SEG	Cosecant function	CSC
	Asynchronous Pulse Generator	A-P-G	Mathematical instruction	+ = A>	Binary-Coded Decimal	Word to Bit	WTB	Quadratic equation	QUAD
	Random Generator	R-G	Analog Comparator	Δ A>	Binary Code	UDC Communication	UDC	Data Log	L
	Stairway Lighting Switch	S-L-S	Analog Threshold Trigger	Δ A>	Left Rotation	CRC16	CRC	Modbus TCP Read	MR (tcp)
	Multiple Function Switch	M-F-S	Analog Amplifier	A>	Right Rotation	Odd Number	ODD	Modbus TCP Write	MW (tcp)
	Weekly Timer	W-T	Analog Watchdog	Δ A>	Left Shift	Even Number	EVEN	AB-Phase Output	AB-Ph Out
	Yearly Timer	Y-T	Analog Differential Trigger	Δ A>	Right Shift	Modulo	MOD	MOV	Mov
	Astronomical clock	AC	Analog MUX	Δ A>	AND Mask	Remainder	REM	Power Meter	Power Meter
	StopWatch	SW	Analog Ramp	Δ A>	OR Mask	Logarithm	LOG	Const	Const

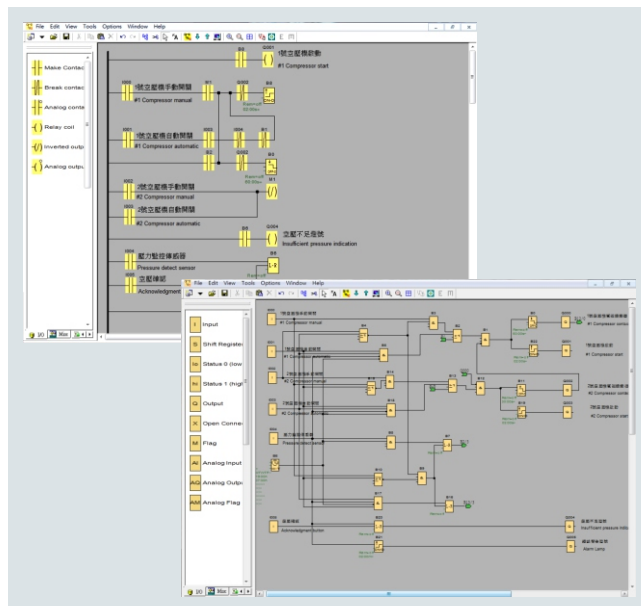
Software

PLC Edit Soft

YottaEditor

OVERVIEW

- ※ Program Comment
- ※ Project-Oriented Application Development
- ※ Ladder Diagram & Function Block Diagram Editing Comparison Function
- ※ Program Memory Code Auxiliary Display
- ※ Component Comment



For more information, please refer to
www.yottacontrol.com

L D F u n c t i o n	Make Contact		Threshold Trigger		Modbus Write		Pulse train output		Cotangent function	
	Break Contact		Mathematical instruction		Boolean function		Pulse train output (Edge)		Secant function	
	Analog Contact		Analog Comparator		Trigger date time		Segment display		Cosecant function	
	Relay Coil		Analog Threshold Trigger		Binary-Coded Decimal		Word to Bit		Quadratic equation	
	Inverted Output		Analog Amplifier		Binary Code		UDC Communication		Data Log	
	Analog Output		Analog Watchdog		Left Rotation		CRC16		Serial connect with an A contact	YES
	On-Delay		Analog Differential Trigger		Right Rotation		Odd Number		Parallel connect with an A contact	YES
	Off-Delay		Analog MUX		Left Shift		Even Number		Concatenate two blocks in series	YES
	On-/Off-Delay		Analog Ramp		Right Shift		Modulo		Merge two blocks in parallel	YES
	Retentive On-Delay		PI controller		AND Mask		Remainder		Modbus TCP Read	
	Wiping Relay (pulse output)		PWM		OR Mask		Logarithm		Modbus TCP Write	
	Edge Triggered Wiping Relay		Analog Filter		NOT Mask		Square root		AB-Phase Output	
	Asynchronous Pulse Generator		MaxMin		NAND Mask		Absolute value		MOV	
	Random Generator		Average Value		NOR Mask		GCD		Power Meter	
	Stairway Lighting Switch		AND		XOR Mask		LCM		Const	
	Multiple Function Switch		NAND		Data array Max/Min/Avg		2's nth power			
	Weekly Timer		Latching Relay		Data Max/Min/Avg		e's nth power			
	Yearly Timer		Pulse Relay		RAND		Fixed-point arithmetic			
	Astronomical clock		Message Texts		MEM		Round-off			
	StopWatch		Shift Register		Encoder		Sine function			
	Up/Down Counter		Mathematical instruction error detection		Stepping Motor Control		Cosine function			
	Hours Counter		Modbus Read		Stepping Motor Control(Edge)		Tangent function			

Monitoring and Database Software

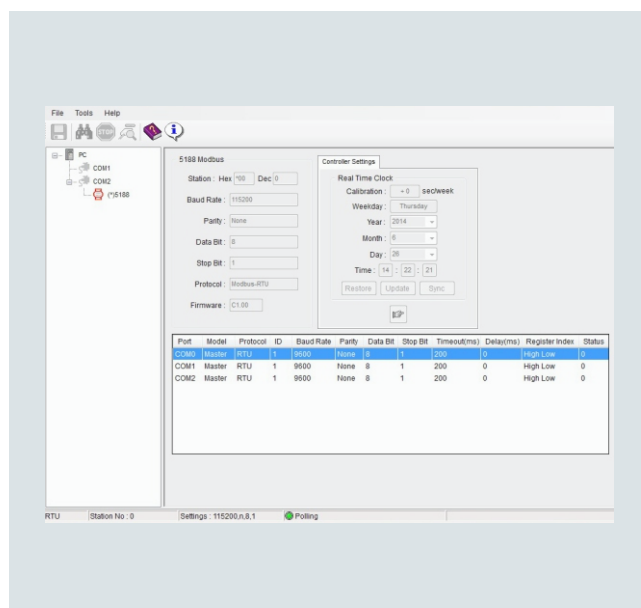
DCS Monitoring and Database Software

YottaUtility

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OVERVIEW

- ※ Monitor & Database Function
- ※ Use For Yottacontrol Whole Series Controller And TS-48 Time Switch
- ※ 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

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 A-5389

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CPU		Order No.
5389	Ethernet CPU , DC Power Supply , 14DI/8DO/4AI/2AO , RELAY Output , USB*1 & RS-485*2 & RS-232*1 & Ethernet(100M)*1 , Micro SD	A-5389
WIFI Two-Way communicate Transmitter		
3290	Wi-Fi Two-Way communicate Transmitter , 2*AA Battery , 7DI	A-3290
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
1013	ADIO Remote Modules , LED indicator , DC Power Supply , 4AI(0/2~10V + PT-100/1000) , 2AO(0/2~10V) , 2DI , 2DO(Source Output) , RS-485*1,USB*1	A-1013
1036+	AO Remote Modules , LED indicator , DC Power Supply , 6AO(0~20mA, 4~20mA) , RS-485*1	A-1036+
1038+	AO Remote Modules , LED indicator , DC Power Supply , 8AO(0~10VDC) , RS-485*1	A-1038+
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
1255S	WIFI ADIO Remote Modules,8DI/4DO/4AI(0~10V),Source Output,WIFI*1,RS-485*1,USB*1	A-1255S
1213	WIFI ADIO Remote Modules , LED indicator , DC Power Supply , 4AI(0/2~10V + PT-100/1000) , 2AO(0/2~10V) , 2DI , 2DO(Source Output) , RS-485*1,USB*1,WIFI*1	A-1213
1812	ETHERNET AIO Remote Modules,4AI(0~20/4~20mA + PT-100/1000),2AO(0~20/4~20mA),2DI,ETHERNET*1,USB*1	A-1812
1819	ETHERNET AIO 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
1955	Daisy Chain Ethernet DIO Remote Modules , LED indicator , DC Power Supply , 5DI , 4DO(Motor Driver) , Ethernet*2,USB*1	A-1955
1955S	Daisy Chain Ethernet DIO Remote Modules , LED indicator , DC Power Supply , 5DI , 4DO , Ethernet*2,USB*1	A-1955S
1960	Daisy Chain Ethernet DIO Remote Modules , LED indicator , DC Power Supply , 5DI , 4DO(Power Relay) , Ethernet*2,USB*1	A-1960
Text Panel		
ATP2	4.3 " STN LCM , DC Power Supply , RS-485*1	ATP2
Accessories		
ASPS	Power Supply , 24V/2A	ASPS
USB 1800	Communication lines	USB 1800
Micro-SD-8GB	Data Storage Card	Micro-SD-8GB
Software		
YottaEditor	Edit Software	YottaEditor
YottaUtility	Monitoring and Database Software	YottaUtility
USB 1800 Driver	USB 1800 PC Driver	DR-USB 1800

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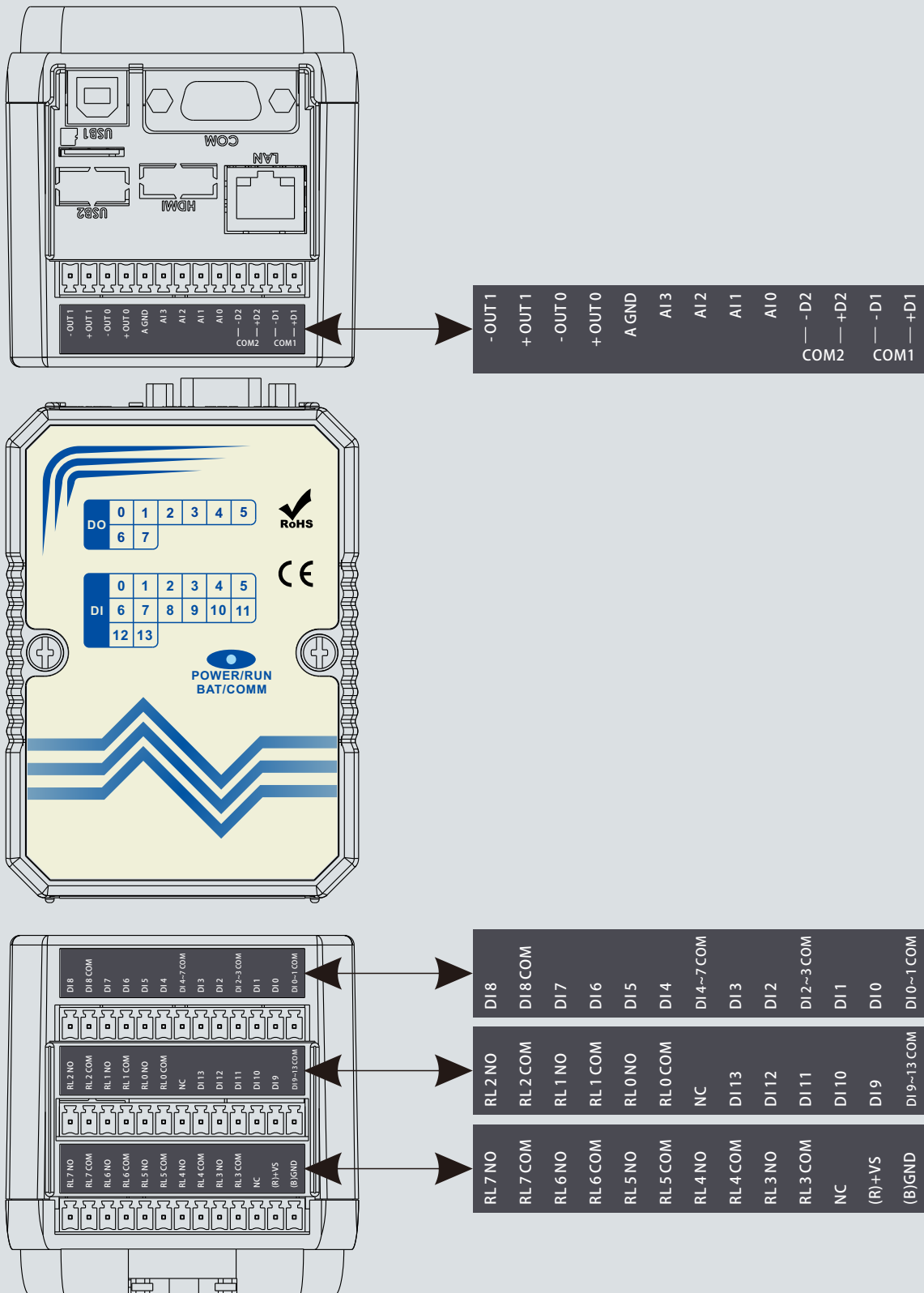
Wiring Diagrams & Pin Out

DCS & Remote Modules

A-5389

Pin Table

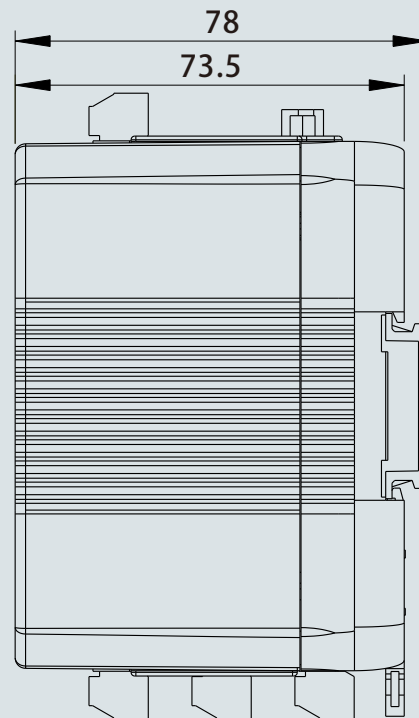
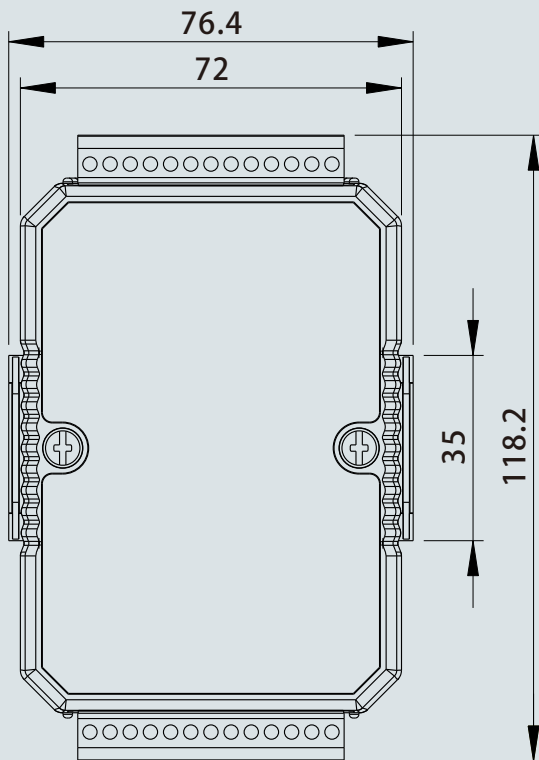
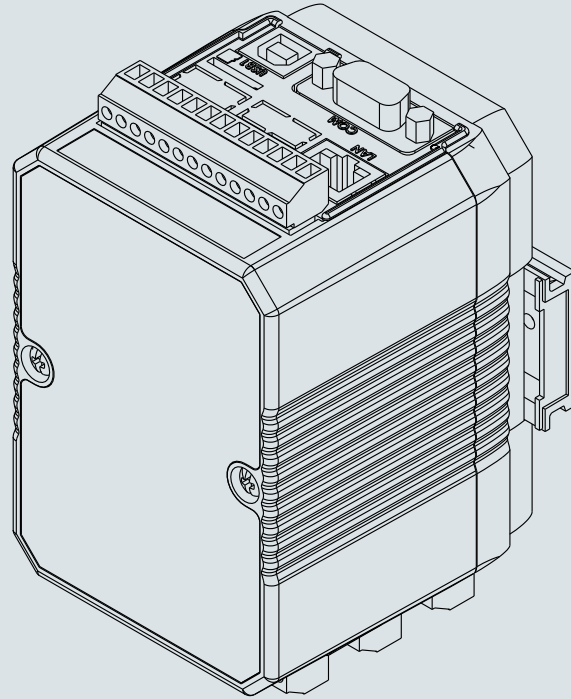
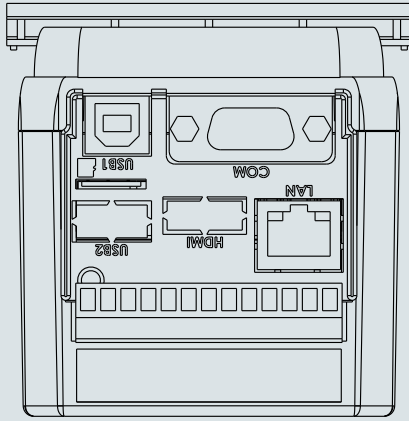
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Dimension

DCS & Remote Modules

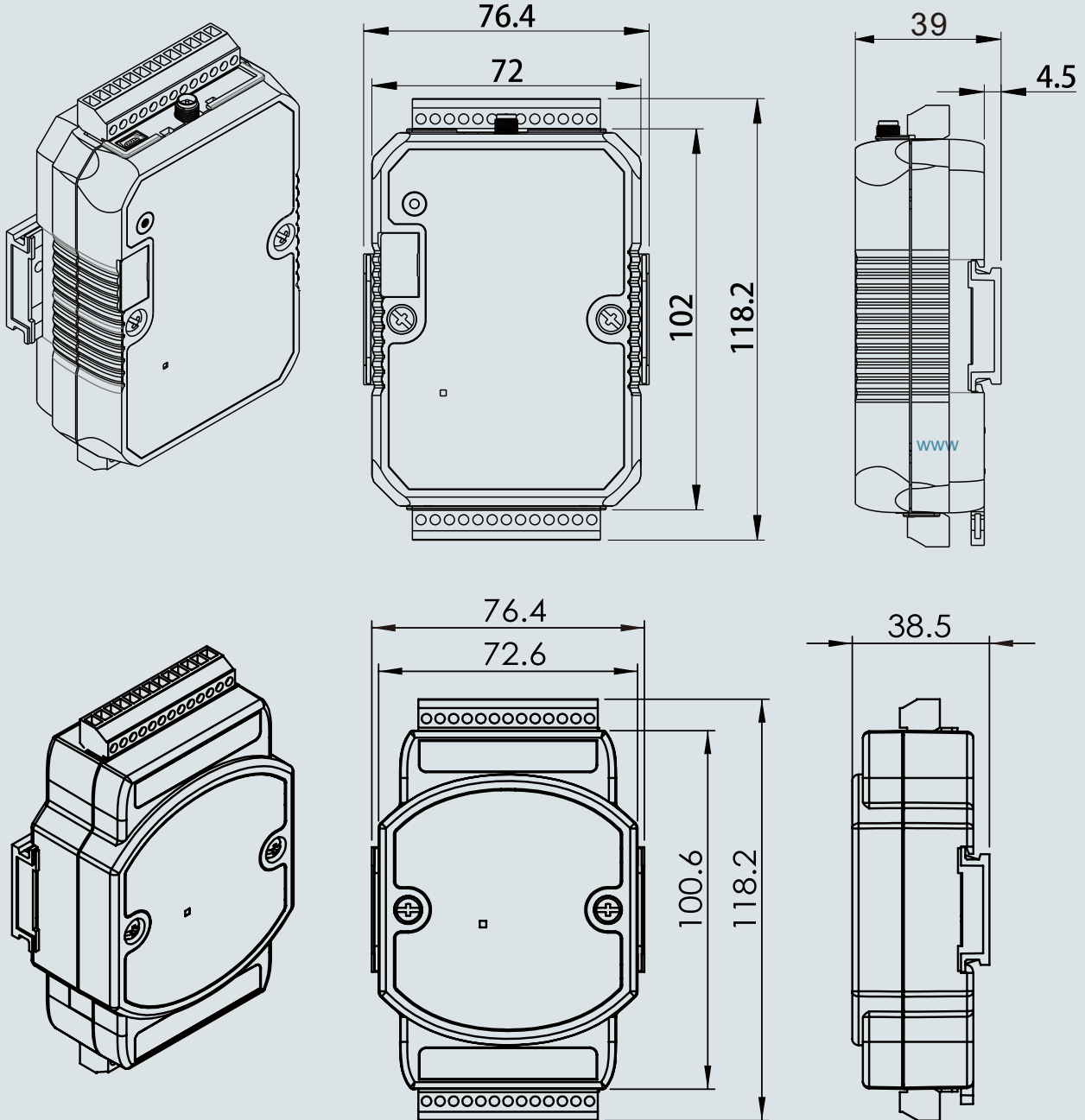
DCS



Dimension

DCS & Remote Modules

DCS



Dimension

DCS & Remote Modules

DCS

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