

A Series Remote Modules

Catalogue • 2016.08



WIFI/ETHERNET/RS-485 Remote Modules

eAutomation Solution

 Yottacontrol Co.

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 Monitor PC Software "YottaUtility"



For more information, please refer to

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 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: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 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"



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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			

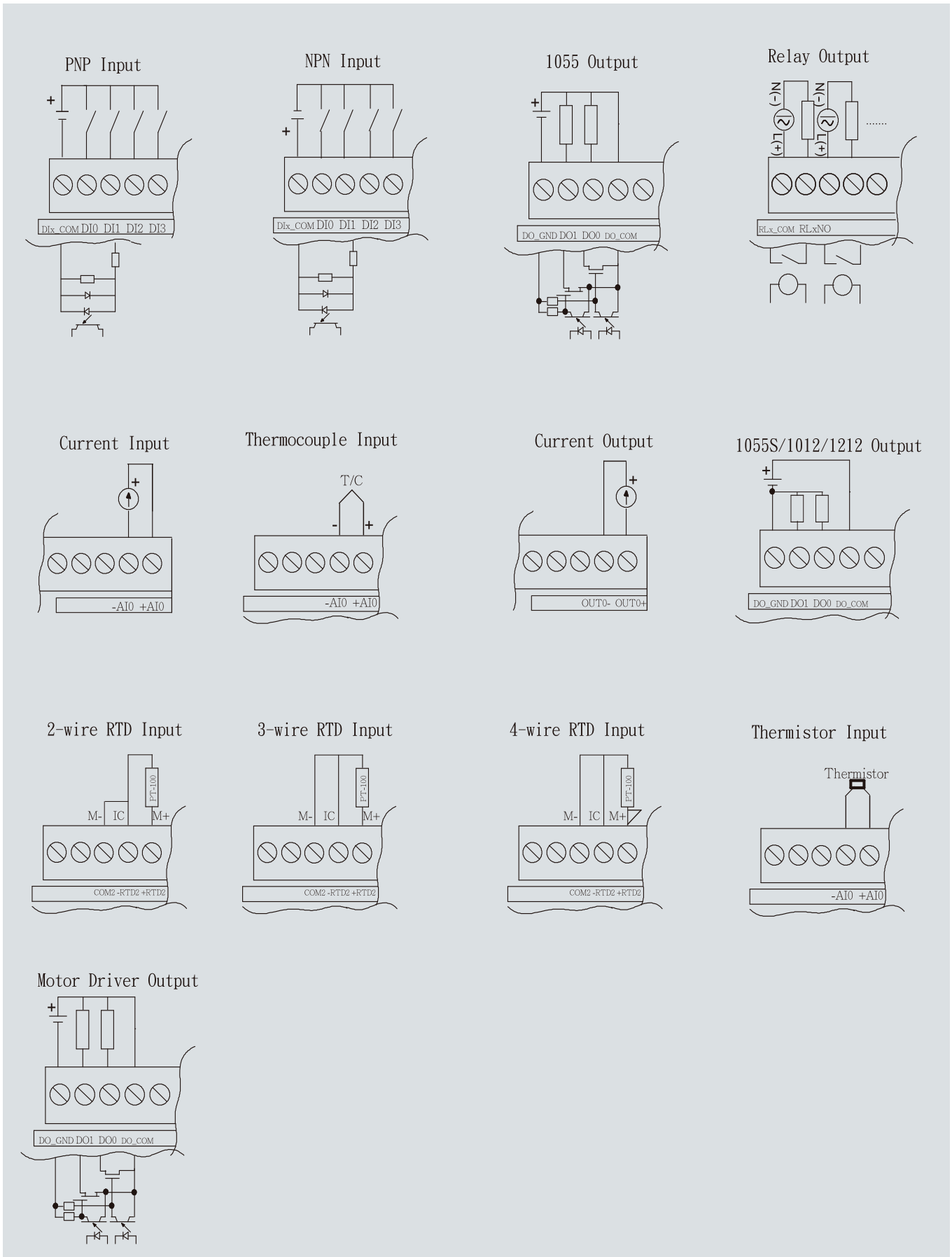
Type	A-1055S	A-1060
	DIO	DIO
Operation Voltage	10-30VDC/24VAC	10-30VDC/24VAC
Inputs	8*Isolation DI status low:<1VDC status high:>5-30VDC	8*Isolation DI status low:<1VDC status high:>5-30VDC
Outputs	8 (Source Transistor)	4 (Power Relay)
Continuous Current	10-35VDC(1A)	250VAC(5A)/30VDC(5A)
Communication 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

Wiring Diagrams & Pin Out

Remote Modules

A-1x Series

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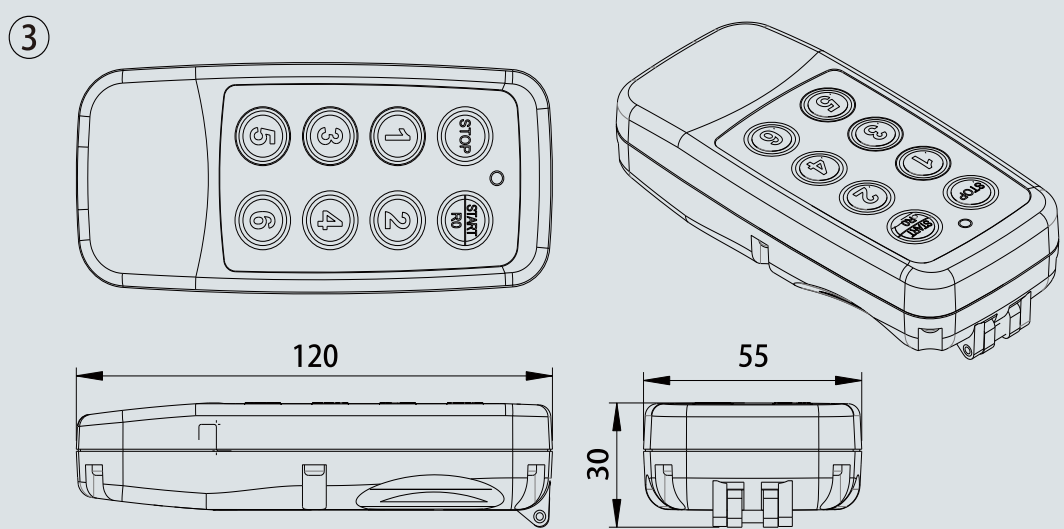
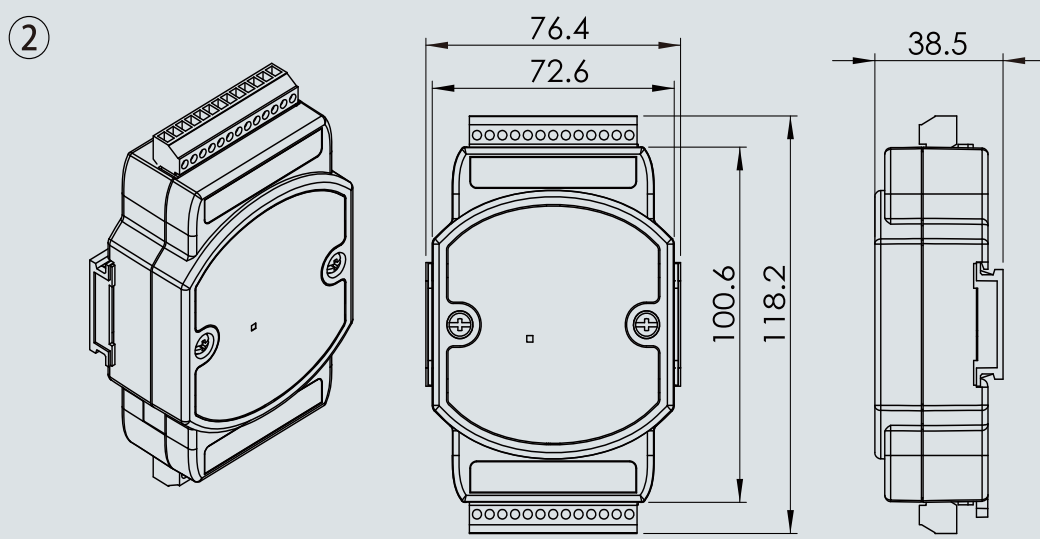
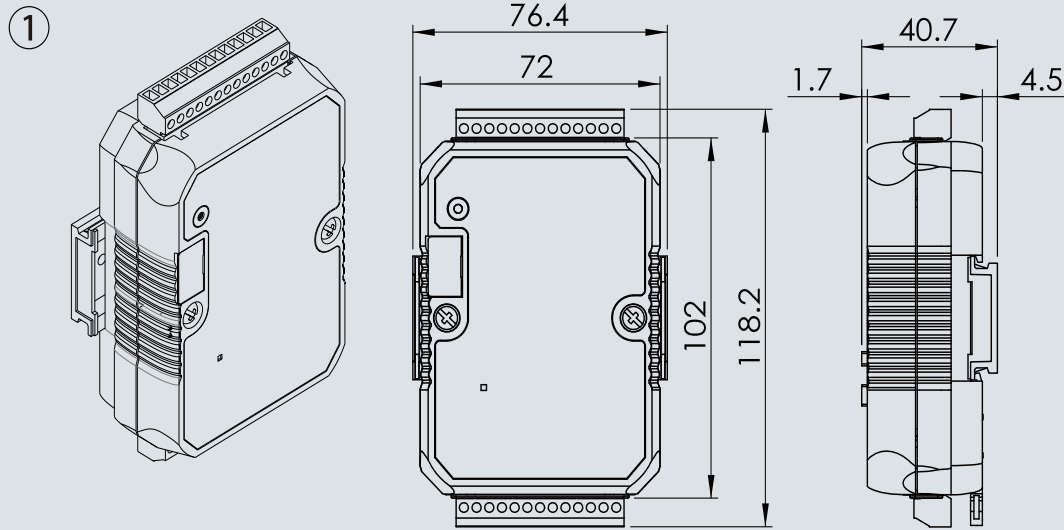
For more information, please refer to www.yottacontrol.com

Dimension

Remote Modules

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Dimension



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Pin Assignments

Remote Modules

Remote Modules

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Pin Table

<p>A-1251</p> <p>26 D18 D17 D16 D16-8COM D15 D14 D14-5COM D13 D12 D12-3COM D11 D11 D10-1COM1 D10 D10 D11 D112-15COM D12 D13 D14 D15 (V)DATA+ (G)DATA- (R)+V5 (B)GND 13 14 D10-1COM</p>	<p>A-1255</p> <p>26 D16 D15 D14 D13 D12 D11 D10 D10-6COM D10-3GND A10-3GND A13 A12 A11 A10 14 A10</p> <p>D17COM1 D17 NC D00-3COM D00 D01 D02 D03 D00-3GND (V)DATA+ (G)DATA- (R)+V5 (B)GND 13</p>	<p>A-1260</p> <p>26 D16 D15 D14 D13 D12 D11 D10 D10-6COM A10-3GND A13 A12 A11 A10 14 A10</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</p>
<p>A-1269</p> <p>26 RL3 COM RL3 NO RL2 COM RL2 NO RL1 COM RL1 NO RL0 COM RL0 NO A10-3GND A13 A12 A11 A10 14 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</p>	<p>A-1212</p> <p>26 D11 D10 COM3 D10-1COM -RTD3 +RTD3 COM2 -RTD2 +RTD2 -A11 +A11 -A10 +A10 14 +A10</p> <p>OUT0+ 1 OUT0- OUT1+ OUT1- NC D00-1COM D00 D01 D00-1GND (V)DATA+ (G)DATA- (R)+V5 (B)GND 13</p>	<p>A-1219</p> <p>26 -A13 +A13 -A12 +A12 -A15 +A15 -A16 +A16 +A17 -A17 D13 D12 D11 D10 14 D10-3COM</p> <p>+A14 1 -A14 +A15 -A15 +A16 -A16 +A17 -A17 NC (V)DATA+ (G)DATA- (R)+V5 (B)GND 13</p>
<p>A-1851</p> <p>20 D15 D14 D13 D12 D11 D10 14 D10-5COM RJ-45 (Ethernet)</p> <p>85Ω D16-15COM1 D16 D17 D18 D19 D10 D11 D12 D13 D14 D15 (R)+V5 (B)GND 13</p>	<p>A-1855</p> <p>20 D15 D14 D13 D12 D11 D10 14 D10-5COM RJ-45 (Ethernet)</p> <p>85Ω D16-7COM1 D16 D17 D00-3COM D00 D01 D00-3GND D00-3COM D02 D03 D00-3GND (R)+V5 (B)GND 13</p>	<p>A-1860</p> <p>20 D15 D14 D13 D12 D11 D10 14 D10-5COM RJ-45 (Ethernet)</p> <p>85Ω 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</p>
<p>A-1869</p> <p>20 RL2 COM RL2 NO RL1 COM RL1 NO RL0 COM RL0 NO NC 14 RJ-45 (Ethernet)</p> <p>85Ω RL3 NO 1 RL3 COM NC RL4 NO RL4 COM RL5 NO RL5 COM RL6 COM RL6 NO RL7 NO RL7 COM (R)+V5 (B)GND 13</p>	<p>A-1812</p> <p>20 D11 D10 D10-1COM -OUT1 +OUT1 -OUT0 14 +OUT0 RJ-45 (Ethernet)</p> <p>85Ω +A10 1 -A10 +A11 -A11 +RTD2 -RTD2 COM2 +RTD3 -RTD3 COM3 NC (R)+V5 (B)GND 13</p>	<p>A-1819</p> <p>20 -A12 +A12 -A11 +A11 -A10 +A10 NC 14 RJ-45 (Ethernet)</p> <p>85Ω +A13 1 -A13 +A14 -A14 +A15 -A15 +A16 -A16 +A17 -A17 NC (R)+V5 (B)GND 13</p>

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