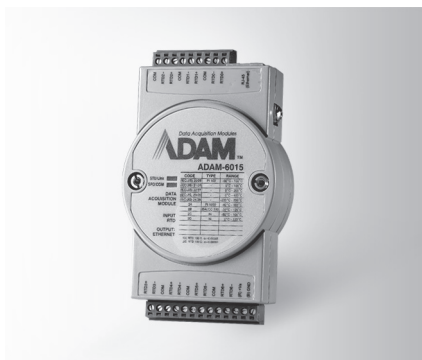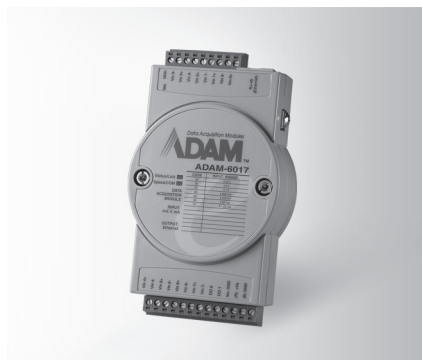# ADAM-6015
ADAM-6017
ADAM-6018

7-ch Isolated RTD Input Modbus TCP Module

8-ch Isolated Analog Input Modbus TCP Module with 2-ch DO

8-ch Isolated Thermocouple Input Modbus TCP Module with 8-ch DO

ADAM-6015 FCC CE RoHS COMPLIANT 2002/95/EC c UL us LISTED E180881 I.T.E.

ADAM-6017 FCC CE RoHS COMPLIANT 2002/95/EC c UL us LISTED E180881 I.T.E.

ADAM-6018 FCC CE RoHS COMPLIANT 2002/95/EC c UL us LISTED E180881 I.T.E.

Specifications

Analog Input

- **Channels**   7 (differential)
- **Input Impedance**   > 10 MΩ
- **Input Connections** 2 or 3 wire
- **Input Type**   Pt, Balco and Ni RTD
- **RTD Types and Temperature Ranges**

Pt 100	-50°C	~	150°C
	0°C	~	100°C
	0°C	~	200°C
	0°C	~	400°C
	-200°C	~	200°C
Pt 1000	-40°C	~	160°C

Supports both IEC 60751 ITS90 (0.0385 W/W/°C) and JIS C 1604 (0.0392 W/W/°C)

Balco 500	-30°C	~	120°C
Ni 518	-80°C	~	100°C
	0°C	~	100°C

- **Accuracy**   ± 0.1 % or better
  High speed mode   ±0.5% or better
- **Span Drift**   ± 25 ppm/°C
- **Zero Drift**   ± 6 μV/°C
- **Resolution**   16-bit
- **Sampling Rate**
  10 sample/ second (total)
  High speed mode:1K sample/second (total)
  CMR @ 50/60 HZ 90dB
  NMR @ 50/60 HZ 60dB
  * high speed mode does not support CMR/NMR
- **Wire Burn-out Detection**

Ordering Information

- **ADAM-6015**   7-ch Isolated RTD Input Modbus TCP Module

Specifications

Analog Input

- **Channels**   8 (differential)
- **Input Impedance**   > 10 MΩ (voltage)
  120 Ω (current)
- **Input Type**   mV, V, mA
- **Input Range**   ±150mV , ±500mV , ±1 V , ±5V , ±10V, 0~150mV, 0~500mV , 0~1V , 0~5V , 0~10V, 0~20mA , 4~20mA , ±20mA
- **Accuracy**   ±0.1% (voltage)
  ±0.2% (current)
- **Span Drift**   ±25 ppm/°C
- **Zero Drift**   ±6 μV/°C
- **Resolution**   16-bit
- **Sampling Rate**   10 or 100 sample/ second (total)
  CMR @ 50/60 HZ 90dB
  NMR @ 50/60 HZ 67dB
- **Common-Mode Voltage**   350V_DC

Digital Output

- **Channels**   2, open collector to 30 V, 100 mA max. load
- **Power Dissipation** 300 mW for each module
- **Output Delay**   On: 100μs
  Off: 150μs

Ordering Information

- **ADAM-6017**   8-ch Isolated AI with 2-ch DO Modbus TCP Module

Specifications

Analog Input

- **Channels**   8 (differential)
- **Input Impedance**   > 10 MΩ
- **Input Type**   Thermocouple
- **Thermocouple Type and Range:**

J	0 ~ 760°C	R	500 ~ 1,750°C
K	0 ~ 1,370°C	S	500 ~ 1,750°C
T	-100 ~ 400°C	B	500 ~ 1,800°C
E	0 ~ 1,000°C		

- **Accuracy**   ±0.1%
- **Span Drift**   ±25 ppm/°C
- **Zero Drift**   ±6 μV/°C
- **Resolution**   16-bit
- **Sampling Rate**   10 sample/ second (total)
  CMR @ 50/60 HZ 90dB
  NMR @ 50/60 HZ 60dB
- **Wire Burn-out Detection**

Digital Output

- **Channels**   8, open collector to 30 V, 100 mA max. load
- **Power Dissipation** 300 mW for each module

Ordering Information

- **ADAM-6018**   8-ch Isolated Thermocouple Input Modbus TCP Module w/ 8-ch DO

Common Specifications

General

- **LAN**   10/100Base-T(X)
- **Power Consumption** 2.5 W @ 24 V_DC (ADAM-6015)
  2.7 W @ 24 V_DC (ADAM-6017)
  2 W @ 24 V_DC (ADAM-6018)
- **Connectors**   1 x RJ-45 (LAN), Plug-in screw terminal block (I/O and power)
- **Watchdog**   System (1.6 second) and Communication (programmable)

- **Power Input**   10 ~ 30 V_DC
- **Supports Peer-to-Peer**
- **Supports GCL**
- **Supports Modbus/TCP, TCP/IP, UDP and HTTP Protocols**

Protection

- **Over Voltage Protection**   ±35 V_DC
- **Isolation Protection**   2,000 V_DC
- **Built-in TVS/ESD Protection**
- **Power Reversal Protection**

Environment

- **Operating Temperature**   -10 ~ 70°C (14 ~ 158°F)
  -20 ~ 70°C (-4 ~ 158°F) (ADAM-6017)
- **Storage Temperature**   -20 ~ 80°C (-4 ~ 176°F)
  -30 ~ 80°C (-22 ~ 176°F) (ADAM-6017)
- **Operating Humidity**   20 ~ 95% RH (non-condensing)
- **Storage Humidity**   0 ~ 95% RH (non-condensing)

ADVANTECH   IoT Ethernet I/O Modules: ADAM-6000

All product specifications are subject to change without notice

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