Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

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