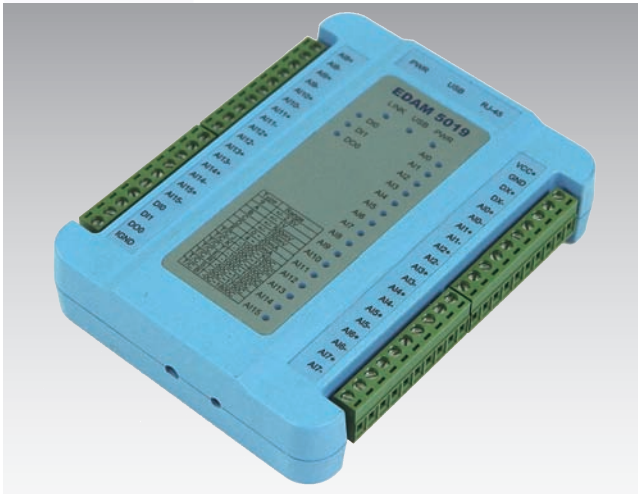


# EDAM-5019

16-ch Thermocouple Input module with 2-ch Isolated DI and 1-ch DO



## Features

- ◆ Protocol USB2.0 TCP/IP, MODBUS RTU, MODBUS TCP ASCII Command
- ◆ Support USB2.0, 10/100 Ethernet, RS485/232C, CAN(optional)
- ◆ Support Thermocouple J, K, T, R, S, E, B, N, C Type
- ◆ Support isolated input channels
- ◆ Fully photo-isolation 3750Vrms
- ◆ Wide supply voltages (10~30V)
- ◆ Built-in TVS/ESD protection
- ◆ Burn-out auto detection

## Specifications

### Interface:

Communication	USB2.0, 10/100 Ethernet, RS485/232C, CAN (optional)
Protocol	TCP, UDP, DHCP, ARP, MODBUS RTU, MODBUS TCP ASCII Command
LED indication	LED for Power, USB and Ethernet link status
Isolation voltage	3000VDC

### Analog input:

Effective resolution	16-bit
Input channels	16 channels Analog input
Input type	Voltage, Current, Thermocouple
Input range	±15mV, ±50mV, ±100mV, ±500mV, ±1V, ±2.5V, ±20mA
Thermocouple Type	J, K, T, R, S, E, B, N, C
Sampling rate	10 Samples / Second
Input Impedance	10MΩ
Accuracy	±0.05% or better
Zero drift	±20uV/ °C
Span drift	25 ppm/ °C

### Digital Input :

Input Channel	2 channels
Input Type	Voltage or Switch On/Off
	Logic Low: $0 < V_{in} < 3V_{dc}$
	Logic High: $5V < V_{in} < 24V_{dc}$
Isolation voltage	2000V

### Digital Output :

Output Channel	1 channel
Output Type	Open Collect to 30Vdc/3A(max)
Isolation voltage	2000V

### Power requirement :

Consumption	1.5 W/Typical, 2W/max
Power input	USB powered (400mA max.) or external unregulated +10 ~ +30 VDC
Humidity	5 ~ 95% RH, non-condensing

### Block diagram

