

ET-7026

6-channel Analog Input, 2-channel Analog Output,
2-channel Digital Input And 2-channel Digital Output Module



Introduction

The ET-7026, a web-based Ethernet I/O module, features a built-in web server, which allows configuration, I/O monitoring and I/O control by simply using a regular web browser. Besides, with the web HMI function, no more programming or HTML skills are needed; creating dynamic and attractive web pages for I/O monitoring and I/O control would be fun to engineers ever after. The ET-7026 offers easily and safely access for users from anytime and anywhere! In addition, ET-7026 also supports Modbus/TCP protocol that makes perfect integration to SCADA software.

The ET-7026 is a multi-function module, there are 6-channel analog inputs, 2-channel analog output, 2-channel digital inputs and 2-channel digital outputs module. It provides programmable input range on all analog inputs(+/-500mV, +/-1V, +/-5V, +/-10V, +/-20mA, 0~20mA and 4~20mA), analog outputs are 12 bit with +/-5V, +/-10V, 0~20mA and 4~20mA and digital output can be set alarm output. Each analog input is allowed to configure an individual range and has 240Vrms high over voltage protection. Jumper selectable for voltage or current inputs/outputs.

Features

- Built-in Web Server
- Communication Security
- 2-way Isolated Noise/Surge Protection
- Modbus/TCP Protocol
- Built-in Dual Watchdog
- 10/100 Base-TX Ethernet
- I/O Pair Connection
- AI: 6 (mV, V, mA)
- AO: 2 (V, mA)
- DO: 2 (Open Collector Output)
- DI: 2 (Dry+Wet)

Specification

Analog Input		
Input Channels		6 (Differential)
Input Type		+/-500 mV, +/-1V, +/-5 V, +/-10 V +0 mA ~ +20 mA, +/-20 mA, 4 ~ 20 mA (Jumper Selectable)
Resolution	Normal Mode	16-bit
	Fast Mode	12-bit
Sampling Rate	Normal Mode	10 Samples/Sec.
	Fast Mode	60 Samples/Sec. (Total)
Accuracy	Normal Mode	+/-0.1%
	Fast Mode	+/-0.5% or better
Bandwidth	Normal Mode	15.7 Hz
	Fast Mode	78.7 Hz
Zero Drift		+/-20 uV/°C
Span Drift		+/-25 ppm/°C
Input Impedance		2 MΩ
Common Mode Rejection		86 dB Min.
Normal Mode Rejection		100 dB
Open Wire for Current Output		4 ~ 20mA
Overvoltage Protection		240 Vrms
ESD Protection		+/-4 kV (Contact for each channel) +/-8 kV air for random point
EFT Protection		+/-4 kV for Power
Analog Output		
Output Channels		2
Span Drift		+0 V~ +5 V, +/-5 V, +0 V~ +10 V, +/-10 V,+0 mA ~ +20 mA, +4 mA ~ +20 mA (jumper selectable)
Resolution		12-bit
Accuracy		+/-0.1% of FSR
Voltage Output Capability		20 mA@10 V
Current Load Resistance		500 Ohms
Power-Up and SafeValue		Yes
Open Wire for Current Output		4 ~ 20mA

Digital Output		
Output Channels	2 (Sink)	
Output Type	Isolated Open Collector	
Max Load Current	700 mA/Channel	
Load Voltage	+5 VDC ~ +50 VDC	
External Power Reversed Protection and Short Circuit Protection	Yes	
Over-Temperature Protection	Yes, 150°C	
Current limited Protection	1.1 A	
Digital Input		
Input Type	2 (Dry+Wet)	
Dry Contact(Source)	On Voltage Level	Close to GND
	Off Voltage Level	Open
	Effective Distance for Dry Contact	500M Max.
Wet contact	On Voltage Level	+1 VDC Max.
	Off Voltage Level	+3.5 VDC ~ +30 VDC
Counters	Channels	2
	Max. Counts	16-bit (65535)
	Max. Input Frequency	100 Hz
	Min. Pulse Width	5 ms
System		
CPU	80186 CPU (80 MHz)	
SRAM	512 KB	
Flash Memory	512 KB	
EEPROM	16 KB	
Dual Watchdog	Yes	
Communication		
Ethernet Port	10 / 100 Base-TX (With Link, Activity LED Indicator) Automatic MDI/MDI-X	
2-way Isolation		
Ethernet	1500 VDC	
AI, AO,DI and DO	2500 Vrms	
LED Display		
L1 LED as run indicator		

L2 LED as Link/Act indicator	
L3 LED as 10/100M indicator	
Power Requirements	
Protection	Power reverse polarity protection
Required Supply Voltage	+10 VDC ~ +30 VDC (non-regulated)
Power Consumption	0.10 A @ 24 VDC Max.
Mechanical	
Dimensions (W x H x D)	72 mm x 123 mm x 35 mm
Installation	DIN-Rail or Wall mounting
Environment	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-30 ~ +80 °C
Relative Humidity	5 ~ 90% RH, non-condensing

More information: http://www.icpdas.com/products/Remote_IO/et-7000/et-7026.htm