

SI-W109

Multi-Function I/O Module



Features



- 4 Channels Analog input
- 2 Channels Analog output
- 4 Channels Digital input
- 4 Channels Digital output
- All Digital input channels can be used as 32 bit counters
- Support over voltage protection
- Support standard Industrial communication protocol
- Support wide operating temperature -25°C~75°C
- Support wide-ranged voltage DC In (9~50V)

Specifications

System

Communication Interface	RS-485
Baud Rate	9600 bps~115,200 bps (Max)
Communication Protocol	Modbus / RTU
Intra-module Isolation	3000V
Installation	DIN-Rail or Wall Mount
LED Indicator	Power LED, Green R/W LED, Orange Error LED, Red Modbus LED, Green
I ² C Interface	Temperature / Humidity sensor module
Power Supply	9~50VDC In from terminal block
System Weight	210 g
Dimensions (W x H x D)	115 x 90 x 39 mm
Certification	FCC / CE

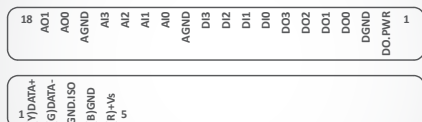
Environment

Operating Temperature (Ambient with airflow)	-25°C~75°C (-13°F~167°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Humidity	20%~90%

Applications

- Building Automation
- Factory Automation
- Machine Automation
- Remote Maintenance
- Remote Diagnosis
- Testing Equipment

Pin Assignments



I/O (Analog Input)

Channels	4
Type	±1V, ±2.5V, ±5V, ±10V ±20mA, 0~20mA, 4~20mA (Jumper Selectable)
Resolution	16 bit
Sampling Rate	Normal Mode: 10Hz Fast Mode: 200Hz
Accuracy	Normal Mode: ±0.1 % Fast Mode: ±0.5 %
Overvoltage Protection	120VDC

I/O (Digital Input / Counter)

Channels	4
Type	Dry Contact: Source
On Voltage Level	Dry Contact: Close to GND
Off Voltage Level	Dry Contact, Open
Counter	Channels: 4 Max. Count: 32 bits (0~4,294,967,285) Max. Input Frequency: 50Hz Min. Pulse Width: 10ms
Overvoltage Protection	60VDC

I/O (Analog Output)

Channels	2
Type	0V~+5V, ±5V, 0V~+10V, ±10V, 0mA~+20mA, +4mA~+20mA (Jumper Selectable)
Resolution	12 bit
Accuracy	3.5~50VDC
Voltage Output Capability	10V @ 20mA
Current Load Resistance	500Ω

I/O (Digital Output)

Channels	4
Type	Source
Max. Load Current	650mA/channel
Load Voltage	11~50VDC
Overvoltage Protection	47VDC
Overload Protection	Yes
Short-circuit Protection	Yes
Power-On Value	Yes, Programmable

* All information contained in this document is subject to change without prior notice. Please log on www.protech.com.tw to acquire latest information. For detail mechanics drawing, please contact our sales.