

SI-W509

5 Channels Digital Input and 6 Channels Relay Output Remote I/O Module



Features



- 5 channels Digital input
- 4 channels Power Relay output and 2 channels Signal Relay 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	220 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

18	REL5 NO	REL5 COM	REL5 COM	REL4 COM	REL4 COM	REL3 COM	REL3 COM	REL2 NO	REL2 COM	REL2 COM	REL1 NO	REL1 COM	REL0 NO	REL0 COM	DA	D3	D2	D1	D0	DI.COM	1
(V)DATA+	(G)DATA-	(G)NDISO	(B)GND	(R)+V5	5																

I/O (Digital Input /Counter)

Channels	5
Type	Wet Contact, Sink / Source
On Voltage Level	Wet Contact, +3.5~+50VDC
Off Voltage Level	Wet Contact, +1VDC Max.
Input Impedance	10KΩ, 0.5W
Counter	Channels: 8 Max. Count: 32 bits (0~4,294,967,285) Max. Input Frequency: 50Hz Min. Pulse Width: 10ms
Overvoltage Protection	70VDC
Power-on Value	Yes

I/O (Power Relay Output-Form A)

Channels	4
Contact Rating	6A @ 35VDC 6A @ 240VAC
Max. Load Current	700mA/channel
Min. Contact Load	100mA @ >= 12V
Contact Material	AgNi 90/10
Operation Time	5ms (typical)
Release Time	1ms (typical)
Mechanical Endurance	30 x 10 ⁶ ops
Electrical Endurance	1 x 10 ⁵ ops
Power-on Value	Yes
Power-off Value	Yes

I/O (Signal Relay Output-Form A)

Channels	2
Contact Rating	2A @ 30VDC 0.24A @ 220VDC 0.25A @ 250VAC
Max. Load Current	700mA/channel
Min. Contact Load	10mA @ 20mV
Contact Material	AgNi, Gold-covered
Operation Time	3ms (typical)
Release Time	4ms (typical)
Mechanical Endurance	10 ⁸ ops
Electrical Endurance	2 x 10 ⁵ ops

* 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.