

CONPROSYS Robust I/O Series
Modbus-TCP Ethernet Remote I/O
Digital Input (Counter) 16ch
CPSR-ET7051



* Specifications, color and design of the products are subject to change without notice.

Features

Built-in Web Server
Web HMI
Support for both Modbus TCP and Modbus UDP Protocols
Communication Access Control
Dual Watchdog
I/O Pair Connection
Built-in I/O
DI/Counter: 16 Channels

The product provides 16 wet contact digital input channels. Each input channel can be used as a 32-bit counter. It features optical isolation for 3750 Vrms of transient overvoltage protection but doesn't provide channel-to-channel isolation. It can safely be used in applications where hazardous voltages are present.

- * The contents in this document are subject to change without notice.
- * Visit the CONTEC website to check the latest details in the document.
- * The information in the data sheets is as of June, 2025.

Specifications

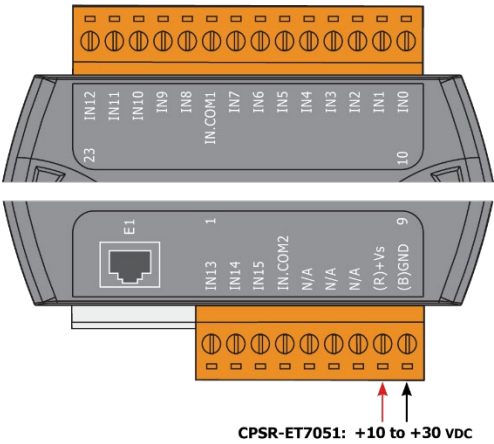
System specification

Item	Description
Software	
Built-in Web Server	Yes
CPU Module	
Watchdog Timer	Module, Communication (Programmable)
2-Way Isolation	
Ethernet	1500 VDC
I/O	2500 VDC
EMS Protection	
EFT (IEC 61000-4-4)	±4 kV for Power Line
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal, ±8 kV Air for Random Point
LED Indicators	
Status	Run, Ethernet
Ethernet	
Ports	1 x RJ-45, 10/100 BASE-TX
Access Control	ID, Password and IP Filter
Protocol	Modbus TCP, Modbus UDP
Power	
Reverse Polarity Protection	Yes
Consumption	2.1 W (Max)
Powered from Terminal Block	+10 to +30 VDC
Mechanical	
Dimensions (mm)	72(W) x 123(L) x 35(H)
Installation	DIN-Rail mounting
Environment	
Operating Temperature	-25 - +75 °C
Storage Temperature	-30 - +80 °C
Humidity	10 - 90% RH, Non-condensing
Standard	VCCI Class A, FCC Class A, CE Marking (EMC Directive Class A, RoHS Directive), UKCA

I/O specification

Item	Description
Digital Input/Counter	
Channels	16
Type	Wet Contact
Sink/Source (NPN/PNP)	Sink/Source
ON Voltage Level	+10 to +50 VDC
OFF Voltage Level	+4 VDC (Max.)
Max. Counts	4,294,967,295 (32-bit)
Frequency	500 Hz
Min. Pulse Width	1 ms
Input Impedance	10 kΩ
Overvoltage Protection	+70 VDC

Pin Assignments



Wire Connections

Digital Input/Counter	Readback as 1
Sink	+10 to +50 VDC
	Readback as 0
Source	OPEN or <4 VDC
	Readback as 0
	OPEN or <4 VDC
	Readback as 0
	OPEN or <4 VDC