

AEIO-7083 – 3-Axis High Speed Encoder/Counter, Ethernet Module



Features

- 3 Encoder/Counter Inputs, 32 bits
- Independently Configurable Channels for Quadrant Mode 1 MHz Max
4 MHz CW/CCW
4 MHz Pulse/Detection Mode
- Modbus TCP/UDP

Specifications

Encoder/Counter		Communication	
Axis	3	Ethernet Port	1 x RJ-45, 10/100 Base-TX
Counting Modes	Quadrant	Protocol	Modbus TCP/UDP
	CW/CCW	Security	ID, Password, & IP Filter
	Pulse/Direction	Dual Watchdog	0.8 secs, Communication (Programmable)
Maximum Count	32-bit	2-Way Isolation	
Max Counting Rate	Quadrant Mode 1Mhz	Ethernet	1500 VDC
	CW/CCW Mode 4Mhz	I/O	2500 VDC
	Pulse/Direction Mode 4Mhz	EMS Protection	
Input Signal Level	5VDC	ESD (IEC 61000-4-2)	±4 kV Contact/Terminal ±8 kV Air for Random Point
	12VDC w/ 1K ohm external resistor (½ W)	EFT (IEC 61000-4-4)	±2 kV for Power Line
	24VDC w/ 2K ohm external resistor (½ W)	Power	
Count Value Retention	10 Years, FRAM	Polarity Protection	Yes, Reverse
Counter Preset Value	Programmable	Power Range	10 ~ 30 VDC
Intra-module Isolation	2500Vrms, Field-to-logic	Consumption	2.7 W
		Mechanical	
		Dimensions (W x L x H)	123 mm x 72 mm x 35 mm
		Mounting	DIN-Rail or Wall Mounting
		Connectors	Plug-in Screws, Terminal Block
		LED Indicators	DO Status, Run, Ethernet
		Environment	
		Operating Temperature	-25 ~ +75°C
		Storage Temperature	-30 ~ +80°C
		Relative Humidity	10 ~ 90% Non-condensing