

PoE-AI4

4 Channels Analog Input (voltage / current) with PoE PD Module



Features

- 4 Channels Analog Input Module
- Channel Independent Configuration
- Isolation: 2500 Vrms
- High Input Impedance
- Communication Protocol: Modbus TCP



Introduction

The PoE-AI4 is 4 Differential or 8 Single-ended channels analog input (voltage/current) module with PoE PD redundant power input which provides users who requires compact data acquisition.

Analog Input

Channels	4 Differential or 8 Single-ended (Selected by software)
Voltage Range	$\pm 100\text{mV}$, $\pm 500\text{mV}$, $\pm 1\text{V}$, $\pm 5\text{V}$, $\pm 10\text{V}$, $0\sim 100\text{mV}$, $0\sim 500\text{mV}$, $0\sim 1\text{V}$, $0\sim 5\text{V}$, $0\sim 10\text{V}$
Current Input	$\pm 20\text{mA}$, $4\sim 20\text{mA}$, $0\sim 20\text{mA}$
Disconnection Detection	Yes ($4\sim 20\text{mA}$)
Sampling Rates	12 samples / second (Total)
Resolution	24-bit, 22-bit, 20-bit, 18-bit, 16-bit, 14-bit, or 12-bit. (Selected by software)
Accuracy	$\pm 0.1\%$ FSR
Input Impedance	Voltage: $100\text{ M}\Omega$ Current: $470\ \Omega$
Span Drift	$\pm 25\text{ ppm}/^\circ\text{C}$
Zero Drift	$\pm 6\ \mu\text{V}/^\circ\text{C}$
Channel Independent	Yes

General

Interface	Ethernet
Power Consumption	2 W @ 24VDC
Input Range	10 ~ 60 VDC
Isolation	2500 Vrms

Communication

Protocol	Modbus TCP
Speed	10/100 based-T Ethernet

Environmental

Operating Temp.	$-25\sim 70^\circ\text{C}$ ($-13\sim 158^\circ\text{F}$)
Storage Temp.	$-30\sim 75^\circ\text{C}$ ($-22\sim 167^\circ\text{F}$)
Operating Humidity	10% to 90% (non-condensing)

Dimension

LED Indicators	PWR, Comm, Program, Status
Dimension	20 x 100 x 95mm
Weight	65g (Average)