

CTSIO-015

8-channel AI/DI Acquisition Module

Features:

- Operating Temperature: -40°C to 85°C
- Operating Current: 100 mA@ 12V Max
- Baud Rate: 1,200 - 115,200 bps



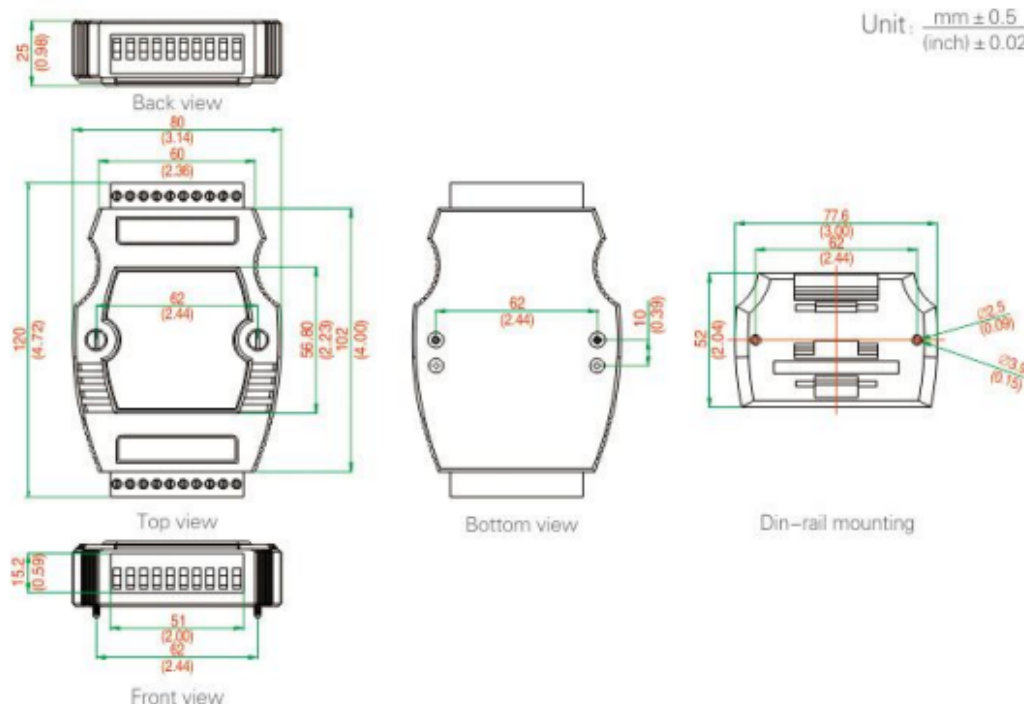
Introduction:

The CTSIO-015 supports 8-channel AI (Analog Input) and DI (Digital Input) acquisition. For ease of use, the analog signal type (voltage or current) is software-selectable, eliminating the need for external resistors. Communication with the host computer is handled via an RS-485 serial bus with a software-configurable baud rate. The device includes integrated surge protection and is widely utilized in telecommunications, data acquisition, and industrial control systems.

Specification:

Hardware	
Operating Voltage	12 - 24 VDC
Operating Current	100 mA@ 12V Max
Sampling Frequency	25Hz (All Channels)
Resolution	24-bit
Acquisition Accuracy	0.5%
Analog Inputs	8-channel Single-ended or 4-channel Differential
Input Impedance	Voltage 50 k Ω , Current 120 Ω
Communication Interface	RS-485
Baud Rate	1,200 - 115,200 bps
Communication Protocol	Modbus RTU
Surge Protection	Power Supply: 1 kV Differential Mode RS-485: 600 W per wire
Measurement Range	Differential Input: $\pm 10V$ Single-ended Input: 0 to 10V, 0 to 20mA
Operating Temperature	-40°C to 85°C
Storage Temperature	-40°C to 85°C
Relative Humidity	5% to 95%

Dimension Drawing:



Ordering Information:

CTSIO-015

8-channel AI/DI Acquisition Module, 8AI / 8DI, Baud Rate: 1,200 - 115,200 bps, Measurement Range: Differential Input $\pm 10\text{V}$, Single-ended Input 0 - 10V, 0 - 20 mA, 1 kV Differential Mode (Power Supply), 600W per wire (RS-485), Operating Temperature: -40°C to 85°C .

Other Models Are Available Upon Request.