# 2558 8-Channel Analog Input Module

## Specifications

**Input channels:** 8 analog input channels  
**Signal Range:**  
Unipolar: 0 to 5 VDC, 0 to 10 VDC, or 0 to 20 mA  
Bipolar: -5 to +5 VDC, -10 to +10 VDC, or -20 to +20 mA  
**Update Time:** 8 WX mode; 5 mSec all channels  
**Digital Filtering Time Constant:** 0.3 Sec  
**DC Input Resistance:**  
Voltage mode: 780kΩ  
Current mode: 250Ω  
**Repeatability:** 0.0025%  
**Accuracy:**  
Voltage mode: 0.125% of full scale from 0° to 60° C  
Current mode: 0.225% of full scale from 0° to 60° C  
**Resolution 8 WX Mode:**  
Unipolar 15 bits plus sign:  
- 0 - 5 VDC range = 156µV/step  
- 0 - 10 VDC range = 312µV/step  
- 0 - 20 mA range = .625µA/step  
Bipolar 15 bits plus sign:  
- -5 to +5 VDC range = 156µV/step  
- -10 to +10 VDC range = 312µV/step  
- -20 to +20 mA range = .625µA/step  
**Common Mode Rejection:** >120db @ 60 Hz (digital filtering disabled)  
**Normal Mode Rejection:** >40db @ 500 Hz (digital filtering enabled)  
**Connector:** Removable (requires 2500-40F)  
**Wire Gauge:** 14-22 AWG  
**Backplane Power:** 3 Watts (maximum)  
**Module Size:** Single wide  
**Input Protection:**  
Input ESD Protection: 20,000 V, IEC 1000-4-2, Level 4  
Overrange Protection: +/- 300 VDC  
**Isolation:** 1500 VDC channel-to-PLC  
**Shipping Weight:** 1.5 lb (0.68 Kg)

## Additional Product Information:

On CTI’s Website you will find links to the 2500 Series Std Environmental Specifications and the UL Agency Certificates of Compliance.
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Typical Internal Circuit Voltage Mode

Typical Internal Circuit Current Mode

2558 Wiring Connector