**Specifications**

**General**
- Certification: FCC, CE
- Power Consumption: 0.5W @ 24 VDC

**Analog Input**
- Channels: 8 differential and independent configuration channels
- Input Impedance: 20 MΩ
- Input Type: T/C, mV, V, mA
- Input Range:
  - Thermocouple:
    - J: 0 ~ 760°C
    - K: 0 ~ 1,750°C
    - T: 0 ~ 400°C
    - E: 0 ~ 1,000°C
  - Voltage mode: 0~15 mV, 0~50 mV, 0~100 mV, 0~500 mV, 0~1 V, 0~2.5 V, ±15 mV, ±50 mV, ±100 mV, ±500 mV, ±1 V, ±2.5 V
  - Current mode: 0~20mA, ±20 mA, 4~20 mA
- Accuracy: Voltage mode: ±0.1% or better
  - Current mode: ±0.2% or better
- Resolution: 16-bit
- Sampling Rate: 10/100 samples/sec (selected by Utility)
- CMRR @ 50/60 Hz: 92 dB
- Overvoltage Protection: ±60 VDC
- High Common Mode: 200 VDC
- Span Drift: ±25 ppm/°C (Typical)
- Zero Drift: ±6μV/°C
- Built-in TVS/ESD Protection
- Burnout Detection

**Common Specifications**
- Power Input: Unregulated 10 ~ 48 VDC
- Watchdog Timer: System (1.6 second) & Communication
- Connector: 2 x plug-in terminal blocks (#14 ~ 22 AWG)
- Isolation Voltage: 3,000 VDC
- Interface (B version): RS-485, micro USB
- Supported Protocols: ASCII Command and Modbus/RTU
- Environment:
  - Operating Humidity: 5 ~ 95% RH
  - Operating Temperature: 0 ~ 85°C (-40 ~ 185°F)
  - Storage Temperature: -40 ~ 85°C (-40 ~ 185°F)

**Ordering Information**
- ADAM-4118-C: Robust 8-ch Thermocouple Input Module with Modbus
- ADAM-4150-C: Robust 15-ch Digital I/O Module with Modbus
- ADAM-4168-C: Robust 8-ch Relay Output Module with Modbus

All product specifications are subject to change without notice. Last updated: 11-Oct-2022
Mouser Electronics

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Advantech: ADAM-4168-C