# ADAM-6117

**8-ch Isolated Analog Input Real-time Ethernet Module**

# ADAM-6160

**6-ch Relay Real-time Ethernet Module**

**ADAM-6117**

FCC CE RoHS COMPLIANT 2002/95/EC

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## Specifications

### Analog Input

- **Channels**            8 (differential)
- **Input Impedance**     > 10 MΩ (voltage)
                          120 Ω (current)
- **Input Type**          mV, V, mA
- **Input Range**         ±150 mV, ±500 mV, ±1 V
                          ±5 V, ±10 V, 0 ~ 20 mA,
                          4 ~ 20 mA, ±20 mA
- **Span Drift**          ± 30 ppm/°C
- **Zero Drift**          ± 6 µV/°C
- **Resolution**          16-bit
- **Accuracy**            ± 0.1% of FSR (Current) at 25°C
                          ± 0.2% of FSR (Current) at 25°C
- **Sampling Rate**       10 sample/second (total)
- **CMR @ 50/60 Hz**      92 dB
- **NMR @ 50/60 Hz**      67 dB
- **High Common Mode**    200 $V_{DC}$

## Ordering Information

- **ADAM-6117EI**         8-ch Isolated AI EtherNet/IP Module

## Specifications

### Relay Output

- **Channels**                  5 Form C and 1 Form A
- **Contact Rating (Resistive)** 250 $V_{AC}$ @ 5A
                                30 $V_{DC}$ @ 5A
- **Max. Switching Voltage**     400 $V_{AC}$
                                300 $V_{DC}$
- **Breakdown Voltage**          500 $V_{AC}$ (50/60Hz)
- **Max. Breakdown Capacity**    1250 VA
- **Frequency of Operation**     360 operations/hour with load
                                72,000 operations/hour without load
- **Set/Reset Time**             8 ms/8 ms
- **Mechanical Endurance**       > 15 x $10^6$ operations
- **Isolation between Contact**  1000 $V_{rms}$
- **Insulation Resistance**      > 10 GΩ @ 500 $V_{DC}$

## Ordering Information

- **ADAM-6160EI**         6-ch Relay EtherNet/IP Module

## Common Specifications

### General

- **LAN**                 10/100Base-T(X)
- **Power Consumption**   ADAM-6117: 3.5 W @ 24 $V_{DC}$
                          ADAM-6160: 4.5 W @ 24 $V_{DC}$
- **Connectors**          2 x RJ-45 LAN (Daisy Chain)
                          Plug-in screw terminal block (I/O and power)
- **Watchdog**            System (1.6 second)
- **Power Input**         10 ~ 30 $V_{DC}$

### Protection

- **Isolation Protection**    2,500 $V_{DC}$
- **Built in TVS/ESD Protection**
- **Power Reversal Protection**

### Environment

- **Operating Temperature**   -10 ~ 70°C (14 ~ 158°F)
- **Storage Temperature**     -20 ~ 80°C (-4 ~ 176°F)
- **Operating Humidity**      20 ~ 95% RH (non-condensing)
- **Storage Humidity**        0 ~ 95% RH (non-condensing)

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