

# ADAM-6117

# ADAM-6124

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

## 4-ch Analog Output Real-time Ethernet Module



ADAM-6117

FCC CE RoHS COMPLIANT PRODUCT

### Specifications

#### Analog Input

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

### Ordering Information

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



ADAM-6124

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### Specifications

#### Analog Output

- **Channels** 4
- **Output Impedance** 2.1  $\Omega$
- **Output Settling Time** 20  $\mu$ s
- **Driving Load** Voltage: 2k $\Omega$   
Current: 500  $\Omega$
- **Programmable Output Slope** 0.125 ~ 128 mA/sec  
0.0625 ~ 64 V/sec
- **Output Type** V, mA
- **Output Range** 0 ~ 5 V, 0 ~ 10 V,  $\pm 5$  V,  $\pm 10$  V  
0 ~ 20 mA, 4 ~ 20 mA
- **Accuracy** 0.3% of FSR (Voltage) at 25 $^{\circ}$ C  
0.5% of FSR (Current) at 25 $^{\circ}$ C
- **Resolution** 12-bit
- **Current Load Resistor** 0 ~ 500  $\Omega$
- **Drift**  $\pm 50$  ppm/ $^{\circ}$ C

#### Digital Input

- **Channels** 4 (Dry Contact only)
- **Dry Contact** Logic 0: Open  
Logic 1: Closed to DGND

### Ordering Information

- **ADAM-6124PN** 4-ch Isolated Analog Output PROFINET Module

### Common Specifications

#### General

- **LAN** 10/100Base-T(X)
- **Power Consumption** ADAM-6117: 3.5 W @ 24 V<sub>DC</sub>  
ADAM-6124: 6 W @ 24 V<sub>DC</sub>
- **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<sub>DC</sub>

#### Protection

- **Isolation Protection** 2,500 V<sub>DC</sub>
- **Built in TVS/ESD Protection**
- **Power Reversal Protection**

#### Environment

- **Operating Temperature** -10 ~ 70 $^{\circ}$ C (14 ~ 158 $^{\circ}$ F)
- **Storage Temperature** -20 ~ 80 $^{\circ}$ C (-4 ~ 176 $^{\circ}$ F)
- **Operating Humidity** 20 ~ 95% RH (non-condensing)
- **Storage Humidity** 0 ~ 95% RH (non-condensing)