

# 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)