

# DATENBLATT

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## ADAM-6100-PN-Serie

### **HABEN SIE FRAGEN ODER WÜNSCHEN SIE EIN INDIVIDUELLES ANGEBOT?**

Unser Team berät Sie gerne persönlich.

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D-82239 Alling bei München



# 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



ADAM-6124

FCC CE RoHS

### 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-6117E1 8-ch Isolated AI EtherNet/IP Module
- ADAM-6117PN 8-ch Isolated AI PROFINET Module

### 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)

# ADAM-6150 ADAM-6151/6156 ADAM-6160

15-ch Isolated Digital I/O Real-time Ethernet Module

16-ch Isolated Digital Input/ Digital Output Real-time Ethernet Module

6-ch Relay Real-time Ethernet Module



ADAM-6150/6151/6156

FCC CE RoHS



ADAM-6160

FCC CE RoHS

## Specifications

### Digital Input

- **Channels** ADAM-6150: 8  
ADAM-6151: 16
- **Dry Contact** Logic level 0: open  
Logic level 1: close to DGND
- **Wet Contact** Logic level 0: 0 ~ 3 V<sub>DC</sub> or 0 ~ -3 V<sub>DC</sub>  
Logic level 1: 10 ~ 30 V<sub>DC</sub> or -10 ~ -30 V<sub>DC</sub>  
(Dry/Wet Contact decided by switch)
- **Input Impedance** 5.2 k $\Omega$  (Wet Contact)
- **Transition Time** From logic level 0 to 1: 0.2 ms  
From logic level 1 to 0: 0.2 ms

### Digital Output

- **Channels** ADAM-6150: 7  
ADAM-6156: 16
- **Output Voltage Range** 8 ~ 35 V<sub>DC</sub>
- **Normal Output Current** 100 mA (per channel)

## Ordering Information

- **ADAM-6150EI** 15-ch Isolated DI/O EtherNet/IP Module
- **ADAM-6151EI** 16-ch Isolated DI EtherNet/IP Module
- **ADAM-6156EI** 16-ch Isolated DO EtherNet/IP Module
- **ADAM-6150PN** 15-ch Isolated DI/O PROFINET Module
- **ADAM-6151PN** 16-ch Isolated DI PROFINET Module
- **ADAM-6156PN** 16-ch Isolated DO PROFINET Module

## Specifications

### Relay Output

- **Channels** 5 Form C and 1 Form A
- **Contact Rating** 250 V<sub>AC</sub> @ 5A  
30 V<sub>DC</sub> @ 5A
- **Max. Switching Voltage** 400 V<sub>AC</sub>  
300 V<sub>DC</sub>
- **Breakdown Voltage** 500 V<sub>AC</sub> (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<sup>6</sup> operations
- **Isolation between Contact** 1000 V<sub>rms</sub>
- **Insulation Resistance** > 10 G $\Omega$  @ 500 V<sub>DC</sub>

## Ordering Information

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

## Common Specifications

### General

- **LAN** 10/100Base-T(X)
- **Power Consumption** ADAM-6150: 3 W @ 24 V<sub>DC</sub>  
ADAM-6151: 2.7 W @ 24 V<sub>DC</sub>  
ADAM-6156: 3.2 W @ 24 V<sub>DC</sub>  
ADAM-6160: 4.5 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

- **Over Voltage Protection**  $\pm$ 35 V<sub>DC</sub>
- **Isolation Protection** 2,500 V<sub>DC</sub>
- **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)  
0 ~ 95% RH (non-condensing)