

ADAM-6117

ADAM-6118

ADAM-6124

8-ch Isolated Analog Input Real-time Ethernet Module

7-ch Thermocouple Input Real-time Ethernet Module

4-ch Analog Output Real-time Ethernet Module



Specifications

Analog Input

- **Channels** 8 (differential)
- **Input Impedance** > 10 M Ω (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/ $^{\circ}$ C
- **Zero Drift** ± 6 μ V/ $^{\circ}$ C
- **Resolution** 16-bit with accuracy $\pm 0.1\%$
of FSR (voltage)
 $\pm 0.2\%$ of FSR (current)
- **Sampling Rate** 12 sample/second (total)
- **CMR @ 50/60 Hz** 92 dB
- **NMR @ 50/60 Hz** 60 dB
- **High Common Mode** 200 V_{DC}

Ordering Information

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

Specifications

Analog Input

- **Channels** 7 (differential)
- **Input Impedance** > 1 M Ω (voltage)
120 Ω (current)
- **Input Type** mV, V, mA, Thermocouple
- **Temperature Range** Type J (-210 ~ 1,200 $^{\circ}$ C),
Type K (-270 ~ 1,372 $^{\circ}$ C),
Type T (-270 ~ 400 $^{\circ}$ C),
Type E (-270 ~ 1,000 $^{\circ}$ C),
Type R (0 ~ 1,768 $^{\circ}$ C),
Type S (0 ~ 1,768 $^{\circ}$ C),
Type B (200 ~ 1,820 $^{\circ}$ C)
- **Voltage/Current Range** ± 50 mV, ± 100 mV,
 ± 500 mV, ± 1 V, ± 2.5 V,
 ± 20 mA, 0~20 mA,
4~20 mA
- **Span Drift** ± 30 ppm/ $^{\circ}$ C
- **Zero Drift** ± 6 μ V/ $^{\circ}$ C
- **Resolution** 16-bit with accuracy $\pm 0.1\%$
(voltage or T/C)
 $\pm 0.2\%$ (current)
- **Sampling Rate** 12 sample/second (total)
- **CMR @ 50/60 Hz** 92 dB
- **NMR @ 50/60 Hz** 60 dB
- **High Common Mode** 200 V_{DC}

Ordering Information

- **ADAM-6118EI** 7-ch Thermocouple Input EtherNet/IP Module
- **ADAM-6118PN** 7-ch Thermocouple Input PROFINET Module

Specifications

Analog Output

- **Channels** 4
- **Output Impedance** 2.1 Ω
- **Output Settling Time** 20 μ s
- **Output Slew Rate** 1.0 V/sec
- **Output Type** V, mA
- **Voltage Range** 0 ~ 5 V, 0 ~ 10 V, ± 5 V,
 ± 10 V
- **Current Range** 0~20 mA, 4~20 mA
- **Accuracy** $\pm 0.1\%$ (Voltage) at 25 $^{\circ}$ C
 $\pm 0.1\%$ (Current) at 25 $^{\circ}$ C
- **Resolution** 12-bit

Digital Input

- **Channels** 4
- **Input type** Dry Contact
(Close to Iso. GND)

Ordering Information

- **ADAM-6124EI** 4-ch Isolated Analog Output EtherNet/IP Module
- **ADAM-6124PN** 4-ch Isolated Analog Output PROFINET Module

Common Specifications

General

- **LAN** 10/100Base-T(X)
- **Power Consumption** 3 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) and Communication
(programmable)
- **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 $^{\circ}$ 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)