

ADAM-6117

ADAM-6124

8-ch Isolated Analog Input Real-time Ethernet Module

4-ch Analog Output Real-time Ethernet Module



ADAM-6117



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
- **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_{DC}

Ordering Information

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



ADAM-6124



Specifications

Analog Output

- **Channels** 4
- **Output Impedance** 2.1 Ω
- **Output Settling Time** 20 μ s
- **Driving Load** Voltage: 2k Ω
Current: 500 Ω
- **Programmable Output Slope** 0.125 ~ 128 mA/sec
- **Output Type** 0.0625 ~ 64 V/sec
V, mA
- **Output Range** 0 ~ 5 V, 0 ~ 10 V, ± 5 V, ± 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 Ω
- **Drift** ± 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_{DC}
ADAM-6124: 6 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 $^{\circ}$ 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

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

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



ADAM-6150



Specifications

Digital Input

- **Channels** 8
- **Dry Contact** Logic level 0: open
Logic level 1: close to DGND
- **Wet Contact** Logic level 0: 0 ~ 3 V_{DC} or 0 ~ -3 V_{DC}
Logic level 1: 10 ~ 30 V_{DC} or -10 ~ -30 V_{DC}
(Dry/Wet Contact decided by switch)
- **Input Impedance** 5.2 kΩ (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** 7
- **Output Voltage Range** 8 ~ 35 V_{DC}
- **Normal Output Current** 100 mA (per channel)

Ordering Information

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



ADAM-6151/6156



Specifications

Digital Input (ADAM-6151)

- **Channels** 16
- **Dry Contact** Logic level 0: open
Logic level 1: close to DGND
- **Wet Contact** Logic level 0: 0 ~ 3 V_{DC} or 0 ~ -3 V_{DC}
Logic level 1: 10 ~ 30 V_{DC} or -10 ~ -30 V_{DC}
(Dry/Wet Contact decided by switch)
- **Input Impedance** 5.2 kΩ (Wet Contact)
- **Transition Time** From logic level 0 to 1: 0.2 ms
From logic level 1 to 0: 0.2 ms

Digital Output (ADAM-6156)

- **Channels** 16
- **Output Voltage Range** 8 ~ 35 V_{DC}
- **Normal Output Current** 100 mA (per channel)

Ordering Information

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

Common Specifications

General

- **LAN** 10/100Base-T(X)
- **Power Consumption** ADAM-6150: 3 W @ 24 V_{DC}
ADAM-6151: 2.7 W @ 24 V_{DC}
ADAM-6156: 3.2 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

- **Over Voltage Protection** ±35 V_{DC}
- **Isolation Protection** 2,500 V_{DC}
- **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)