ADAM-6117
ADAM-6160

8-ch Isolated Analog Input Real-time Ethernet Module

6-ch Relay Real-time Ethernet Module



ADAM-6117



ADAM-6160

Specifications

Analog Input

- **Channels** 8 (differential)
- **Input Impedance** > 10 MΩ (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/°C
- **Zero Drift** ± 6 μV/°C
- **Resolution** 16-bit
- **Accuracy** ± 0.1% of FSR (Current) at 25°C
  ± 0.2% of FSR (Current) at 25°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

Specifications

Relay Output

- **Channels** 5 Form C and 1 Form A
- **Contact Rating (Resistive)** 250 V_{AC} @ 5A
  30 V_{DC} @ 5A
- **Max. Switching Voltage** 400 V_{AC}
  300 V_{DC}
- **Breakdown Voltage** 500 V_{AC} (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 10^6 operations
- **Isolation between Contact** 1000 V_{rms}
- **Insulation Resistance** > 10 GΩ @ 500 V_{DC}

Ordering Information

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

Common Specifications

General

- **LAN** 10/100Base-T(X)
- **Power Consumption** ADAM-6117: 3.5 W @ 24 V_{DC}
  ADAM-6160: 4.5 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°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)

All product specifications are subject to change without notice.

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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



ADAM-6151/6156

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

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)
  0 ~ 95% RH (non-condensing)

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