

ADAM-6117

ADAM-6118

8-ch Isolated Analog Input
Real-time Ethernet Module

8-ch Thermocouple Input
Real-time Ethernet Module



NEW

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 with accuracy $\pm 0.1\%$ or better of FSR (voltage)
 $\pm 0.2\%$ or better of FSR (current)
- Sampling Rate 10 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



NEW

ADAM-6118



Specifications

Analog Input

- Channels 8 (differential)
- Input Impedance > 1 M Ω (voltage)
- 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 (300 ~ 1,820 $^{\circ}$ C)
- Span Drift ± 30 ppm/ $^{\circ}$ C
- Zero Drift ± 6 μ V/ $^{\circ}$ C
- Resolution 16-bit with accuracy $\pm 0.1\%$ or better (voltage or T/C)
 $\pm 0.2\%$ or better (current)
- Sampling Rate 10 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 8-ch Thermocouple Input EtherNet/IP Module
- ADAM-6118PN 8-ch Thermocouple Input 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)

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



Specifications

Digital Input

- Channels ADAM-6150: 8
ADAM-6151: 16
- Dry Contact Logic level 0: close to GND
Logic level 1: open
- Wet Contact Logic level 0: 0 ~ 3 V_{DC}
Logic level 1: 10 ~ 30 V_{DC}
- Input Impedance 10 kΩ
- 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_{DC}
- 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



ADAM-6160



Specifications

Relay Output

- Channels 6 Form C

Switching Capacity and Lifetime of the Contact (For Resistive Load)

- VDE 30,000 operations (5 A @ 250 V_{AC}, 10 operations/minute at 85° C)
70,000 operations (5 A @ 30 V_{DC}, 10 operations/minute at 85° C)
- UL 60,000 operations (5 A @ 250 V_{AC})
100,000 operations (5 A @ 30 V_{DC})
- Mechanism 20,000,000 operations (no load, 300 operations/min)
- Breakdown Voltage 500 V_{AC} (50/60 Hz)
- Contact Resistance 30 mΩ (maximum)
- Insulation Resistance 1 GΩ (minimum) at 500 V_{DC}

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: 2.4 W @ 24 V_{DC}
ADAM-6151: 2.4 W @ 24 V_{DC}
ADAM-6156: 2.7 W @ 24 V_{DC}
ADAM-6160: 3.5 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) and Communication (programmable)
- 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)