ADAM-6117
ADAM-6160

8-ch Isolated Analog Input Real-time Ethernet Module

6-ch Relay Real-time Ethernet Module

ADAM-6117

FCC CE RoHS COMPLIANT 2002/95/EC

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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)

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