![Chipsmall logo]

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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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

FCC CE RoHS COMPLIANT 2002/95/EC

ADAM-6160

FCC CE RoHS COMPLIANT 2002/95/EC

Specifications

Digital Input

- **Channels**
  ADAM-6150: 8
  ADAM-6151: 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

- **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

Specifications

Relay Output

- **Channels**   5 Form C and 1 Form A
- **Contact Rating**   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
- **ADAM-6160PN**   6-ch Relay 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}
                              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

- **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)