

# 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



ADAM-6160



## Specifications

### Digital Input

- **Channels** ADAM-6150: 8  
ADAM-6151: 16
- **Dry Contact** Logic level 0: open
- **Wet Contact** Logic level 1: close to DGND
- **Input Impedance** Logic level 0: 0 ~ 3 V<sub>DC</sub> or 0 ~ -3 V<sub>DC</sub>  
Logic level 1: 10 ~ 30 V<sub>DC</sub> or -10 ~ -30 V<sub>DC</sub>  
(Dry/Wet Contact decided by switch)
- **Transition Time** 5.2 kΩ (Wet Contact)  
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<sub>DC</sub>
- **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<sub>AC</sub> @ 5A  
30 V<sub>DC</sub> @ 5A
- **Max. Switching Voltage** 400 V<sub>AC</sub>  
300 V<sub>DC</sub>
- **Breakdown Voltage** 500 V<sub>AC</sub> (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<sup>6</sup> operations
- **Isolation between Contact** 1000 V<sub>ms</sub>
- **Insulation Resistance** > 10 GΩ @ 500 V<sub>DC</sub>

## 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<sub>DC</sub>  
ADAM-6151: 2.7 W @ 24 V<sub>DC</sub>  
ADAM-6156: 3.2 W @ 24 V<sub>DC</sub>  
ADAM-6160: 4.5 W @ 24 V<sub>DC</sub>
- **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<sub>DC</sub>

### Protection

- **Over Voltage Protection** ±35 V<sub>DC</sub>
- **Isolation Protection** 2,500 V<sub>DC</sub>
- **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)