## Ethernet I/O Modules: ADAM-6000

### Specifications

#### Digital Input
- **Channels**: 12
- **Dry Contact**: Logic level 0: close to GND, Logic level 1: open
- **Wet Contact**: Logic level 0: 0 ~ 3 VDC, Logic level 1: 10 ~ 30 VDC
- **Supports 3 kHz Counter Input (32-bit + 1-bit overflow)**
- **Keep/Discard Counter Value when Power-off**
- **Supports 3 kHz Frequency Input**
- **Supports Inverted DI Status**

#### Digital Output
- **Channels**: 6 (sink type), open collector to 30 V, 100 mA maximum load
- **Supports 5 kHz Pulse Output**
- **Supports High-to-Low and Low-to-High Delay Output**

#### Counter Input
- **Channels**: 2
- **Mode**: Counter, Frequency
- **Keep/Discard Counter Value when Power-off**
- **Maximum Count**: 4,294,967,295 (32-bit + 1-bit overflow)
- **Input Frequency**: Frequency Mode: 0.2 ~ 4500 Hz, Counter Mode: 0 ~ 4.5 kHz

#### Digital Output
- **Channels**: 2 (sink type), open collector to 30 V, 100 mA maximum load
- **Supports 5 kHz Pulse Output**
- **Supports High-to-Low and Low-to-High Delay Output**

### Ordering Information

#### ADAM-6050-D1
- 18-ch Isolated DI/O Modbus TCP Module

#### ADAM-6051-D
- 16-ch Isolated DI/O with Counter Modbus TCP Module

#### ADAM-6052-D
- 16-ch Source-type Isolated DI/O Modbus TCP Module

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**Common Specifications**

**General**
- **Certification**: FCC, CE, UL
- **LAN**: 10/100Base-T(X)
- **Power Consumption**: 2 W @ 24 VDC, 1 x RJ-45 (LAN), Plug-in screw terminal block (I/O and power)
- **Watchdog**: System (1.6 second) and Communication (programmable)

**Power Input**
- 10 ~ 30 VDC

**Protection**
- **Power Reversal Protection**: 2,000 VDC
- **Isolation Protection**: 2,000 VDC

**Environment**
- **Operating Temperature**: -20 ~ 70°C (-4 ~ 158°F)
- **Storage Temperature**: -40 ~ 80°C (-40 ~ 176°F)
- **Operating Humidity**: 20 ~ 85% RH (non-condensing)
- **Storage Humidity**: 0 ~ 95% RH (non-condensing)

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*For ADAM-6050 and ADAM-6052*
Mouser Electronics

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Advantech:  
ADAM-6050-D1