

# ADAM-6050

# ADAM-6051

# ADAM-6052

18-channel Isolated Digital I/O Module

16-channel Isolated Digital I/O w/Counter Module

16-channel Source Type Digital I/O Module



ADAM-6050

CE FCC



ADAM-6051

CE FCC



ADAM-6052

CE FCC

## Specifications

### General

- **Channels** 12 DI, 6 DO
- **Digital Input**
  - Dry Contact: Logic level 0: close to GND  
Logic level 1: open
  - Wet Contact: Logic level 0: 3 V max  
Logic level 1: 10~30 V<sub>DC</sub>
  - Counter: Up to 3 kHz  
Frequency: 0.3 ~ 3000 Hz max.
- **Digital Output** Open Collector to 30 V  
200 mA max. load  
Pulse Output: Up to 5 kHz

## Ordering Information

- **ADAM-6050** 18-channel isolated Digital I/O module

## Specifications

### General

- **Channels** 12 DI, 2 DO, 2 Counter
- **Counter**
  - Maximum Count: 4,294,967,285(32 bit)
  - Input frequency: 0.3 ~ 4500 Hz max. (frequency mode)  
4500 Hz max. (counter mode)
  - Isolation voltage: 2000 V<sub>RMS</sub>
  - Modes: Counter, Frequency
- **Digital Input**
  - Dry Contact: Logic level 0: close to GND  
Logic level 1: open
  - Wet Contact: Logic level 0 : +3 V max  
Logic level 1 : +10 V to 30 V<sub>DC</sub>
  - Counter: Up to 4.5 kHz  
Frequency: Up to 3 kHz
- **Digital Output** Open Collector to 30 V  
200 mA max. load  
Pulse Output: up to 5 kHz

## Ordering Information

- **ADAM-6051** 16-channel isolated Digital I/O with counter module

## Specifications

### General

- **Channels** 8 DI, 8 DO
- **Digital Input**
  - Dry Contact: Logic level 0: close to GND  
Logic level 1: open
  - Wet Contact: Logic level 0 : +3 V max  
Logic level 1 : +10 V to 30 V<sub>DC</sub>
- **Digital Output: (Source Type)** V<sub>DC</sub>: 35 V  
Current: 1 A

## Ordering Information

- **ADAM-6052** 16-channel Source Type Digital I/O module

## Common Specifications

### General

- **Certifications** CE, FCC class A
- **Dimensions (WxHxD)** 70 x 112 x 25 mm
- **Connectors** 1 x RJ-45 (LAN)  
Plug-in screw terminal block (I/O, and power)
- **Enclosure** ABS+PC
- **LAN** 10/100Base-T

- **LED Indicators** Power and communication
- **Mounting** DIN 35 rail, stack, wall
- **Power Consumption** 2 W (typical)
- **Power Input** Unregulated 10~30 V<sub>DC</sub>

### Protection

- **Power Reversal Protection**

- **Optical Isolation** 2,000 V<sub>RMS</sub>

### Environment

- **Humidity (Operating)** 20 ~ 95% RH (non-condensing)
- **Humidity (Storage)** 0 ~ 95% RH (non-condensing)
- **Operating Temperature** -10 ~ 70° C
- **Storage Temperature** -20 ~ 80° C