

# ADAM-4050 ADAM-4051 ADAM-4052

15-ch Digital I/O Module  
16-ch Isolated Digital Input Module with Modbus

8-ch Isolated Digital Input Module



ADAM-4050



ADAM-4051



ADAM-4052



## Specifications

### General

- **Certification** FCC, CE, UL
- **Connectors** 2 x plug-in terminal blocks (#14 ~ 22 AWG)
- **Power Consumption** 0.4 W @ 24 V<sub>DC</sub>
- **Watchdog Timer** System (1.6 second)
- **Supported Protocols** ASCII command

### Digital Input

- **Channels** 7
- **Input Level** Logic level 0: 1 V max.  
Logic level 1: 3.5 ~ 30 V  
Pull up current: 0.5 mA,  
10 kΩ resistor to 5 V

### Digital Output

- **Channels** 8  
open collector to 30 V,  
30 mA max. load
- **Power Dissipation** 300 mW

## Specifications

### General

- **Certification** FCC, CE, UL, UL Class I Division 2
- **Connectors** 2 x plug-in terminal blocks (#14 ~ 28 AWG)
- **Power Consumption** 1 W @ 24 V<sub>DC</sub>
- **Watchdog Timer** System (1.6 second)
- **Supported Protocols** ASCII command and Modbus/RTU

### LED Indicators

- **LED Indicators** Yes

### Digital Input

- **Channels** 16
- **Input Voltage** 50 V max
- **Input Level**  
Dry contact: Logic level 0: open  
Logic level 1: close to GND  
Wet contact: Logic level 0: 3 V max  
Logic level 1: 10 ~ 50 V  
(Note: Digital Input levels 0 and 1 can be inverted)
- **Isolation Voltage** 2,500 V<sub>DC</sub>
- **Input Resistance** 5.2 kΩ
- **Overvoltage Protection** 70 V<sub>DC</sub>

## Specifications

### General

- **Certification** FCC, CE, UL
- **Connectors** 2 x plug-in terminal blocks (#14 ~ 22 AWG)
- **Power Consumption** 0.4 W @ 24 V<sub>DC</sub>
- **Watchdog Timer** System (1.6 second)
- **Supported Protocols** ASCII command

### Digital Input

- **Channels** 8  
(6 fully independent isolated channels, 2 isolated channels with common ground)
- **Input Level** Logic level 0: 1 V max.  
Logic level 1: 3 ~ 30 V
- **Isolation Voltage** 5,000 V<sub>RMS</sub>
- **Input Resistance** 3 kΩ

## Common Specifications

### General

- **Power Input** Unregulated 10 ~ 30 V<sub>DC</sub>

### Environment

- **Operating Humidity** 5 ~ 95% RH
- **Operating Temperature** -10 ~ 70°C (14 ~ 158°F)
- **Storage Temperature** -25 ~ 85°C (-13 ~ 185°F)

## Ordering Information

- **ADAM-4050** 15-ch Digital I/O Module
- **ADAM-4051** 16-ch Isolated Digital Input Module with Modbus
- **ADAM-4052** 8-ch Isolated Digital Input Module