# ADAM-6050 ADAM-6051 ADAM-6052

18-ch Isolated Digital I/O Modbus TCP Module

14-ch Isolated Digital I/O Modbus TCP Module with 2-ch Counter

16-ch Source-type Isolated Digital I/O Modbus TCP Module







ADAM-6052

### FCC CE ROHS

### **Specifications**

### **Digital Input**

Wet Contact

Channels
 12

Dry Contact
 Logic level 0: close to GND
 Logic level 1: open

Logic level 0:  $0 \sim 3 V_{DC}$ Logic level 1:  $10 \sim 30 V_{DC}$ 

 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

### **Ordering Information**

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

### **Specifications**

#### **Digital Input**

Channels 1

■ Dry Contact

Logic level 0: close to GND

Logic level 1: open

Wet Contact

Logic level 0: 0 ~ 3 V<sub>DC</sub>

Logic level 1: 10 ~ 30 V<sub>DC</sub>

 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

#### Counter Input

Channels

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

### **Specifications**

#### **Digital Input**

• Channels 8

Dry Contact
 Logic level 0: Open

Logic level 1: Close to Ground

Wet Contact
 Logic level 0: 0 ~ 3 V<sub>DC</sub>
 Logic level 1: 10 ~ 30 V<sub>DC</sub>

 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 8 (Source Type)
 Voltage Range 10 ~ 35 V<sub>DC</sub>
 Current 1 A (per channel)

- Supports 5 kHz Pulse Output

- Supports High-to-Low and Low-to-High Delay Output
- Supports Over Current Protection

### **Ordering Information**

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

## Ordering Information - ADAM-6051 16-ch Isolated DI/O v

- ADAIVI-000

16-ch Isolated DI/O with Counter Modbus TCP Module

### **Common Specifications**

#### General

LAN 10/100Base-T(X)
 Power Consumption 2 W @ 24 V<sub>DC</sub>

Connectors 1 x RJ-45 (LAN), Plug-in screw terminal block (I/O and power)

Watchdog System (1.6 second) and Communication (programmable)

Power Input

 $10 \sim 30 \; V_{DC}$ 

Supports Peer-to-Peer, GCLSupports User Defined Modbus Address

 Supports Modbus/TCP, TCP/IP, UDP, DHCP, SNMP, HTTP and MQTT Protocol

#### **Protection**

Power Reversal Protection

■ Isolation Protection 2,000 V<sub>DC</sub>

### **Environment**

Operating -20 ~ 70°C (-4 ~ 158°F)
 Temperature D version

-40 ~ 70°C (-40~158°F)

• Storage Temperature  $-30 \sim 80^{\circ}\text{C} \ (-22 \sim 176^{\circ}\text{F})$ 

D version

-40 ~ 80°C (-40~176°F)

• Operating Humidity 20 ~ 95% RH

20 ~ 95% RH (non-condensing)

■ **Storage Humidity** 0 ~ 95% RH (non-condensing)

## **Mouser Electronics**

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ADAM-6051-D