

# ADAM-6050

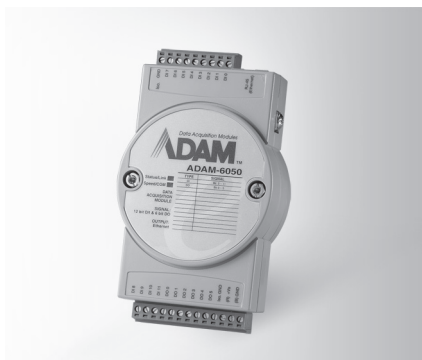
# ADAM-6051

# ADAM-6052

**18-ch Isolated Digital I/O Modbus TCP Module**

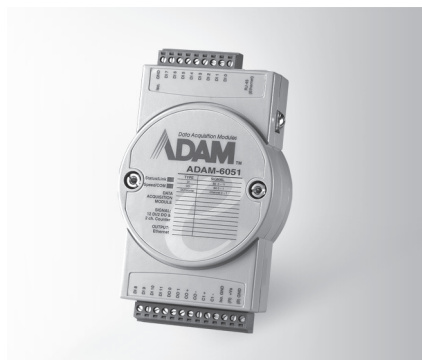
**14-ch Isolated Digital I/O Modbus TCP Module with 2-ch Counter**

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



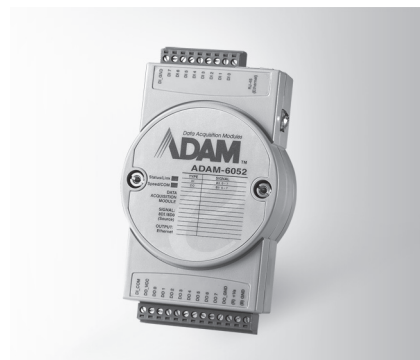
ADAM-6050

FCC CE RoHS COMPLIANT 2002/95/EC



ADAM-6051

FCC CE RoHS COMPLIANT 2002/95/EC



ADAM-6052

FCC CE RoHS COMPLIANT 2002/95/EC

## Specifications

### Digital Input

- **Channels** 12
- **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

### 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** 12
- **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** 2
- **Mode** Counter, Frequency
- **Keep/Discard Counter Value when Power-off** 4,294,967,295 (32-bit + 1-bit overflow)
- **Maximum Count**
- **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-6051** 16-ch Isolated DI/O with Counter Modbus TCP Module

## 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

## 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 ~ 30 V<sub>DC</sub>
- Supports Peer-to-Peer, GCL
- Supports 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 Temperature** -20 ~ 70°C (-4 ~ 158°F)  
D version  
-40 ~ 70°C (-40~158°F)
- **Storage Temperature** -30 ~ 80°C (-22 ~ 176°F)  
D version  
-40 ~ 80°C (-40~176°F)
- **Operating Humidity** 20 ~ 95% RH (non-condensing)
- **Storage Humidity** 0 ~ 95% RH (non-condensing)

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