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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# ADAM-6050

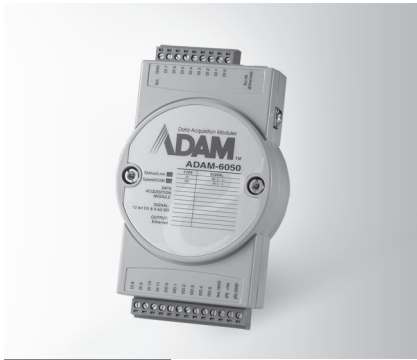
# ADAM-6051

# ADAM-6052

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

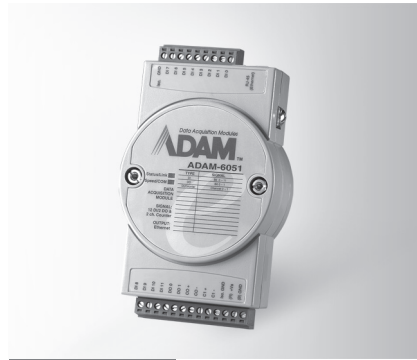
## 14-ch Isolated Digital I/O Modbus TCP Module with 2-ch Counter

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



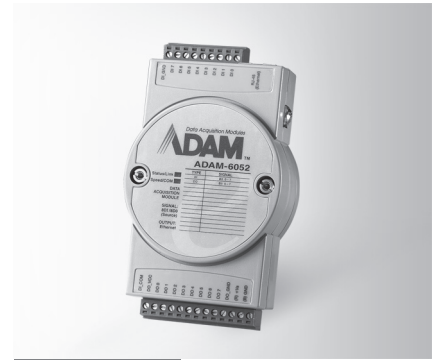
ADAM-6050

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)