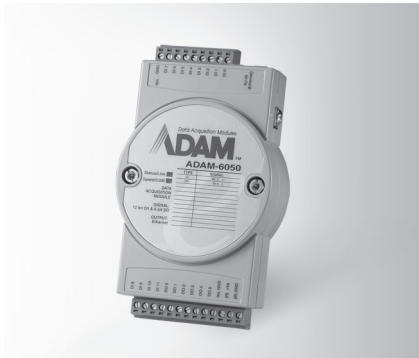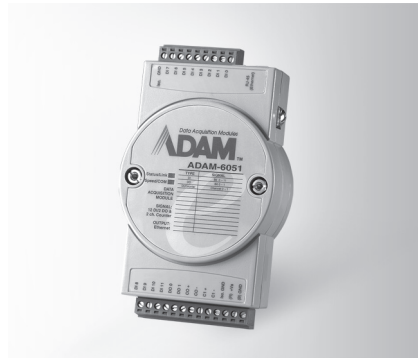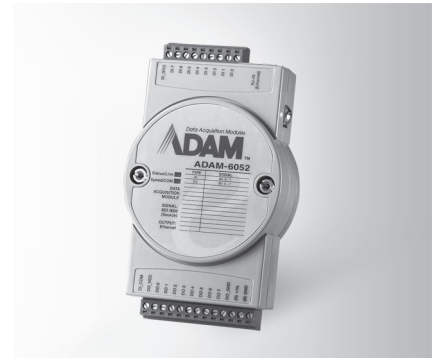# ADAM-6050
ADAM-6051
ADAM-6052

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 LISTED E180881 I.T.E.

ADAM-6051 FCC CE RoHS COMPLIANT 2002/95/EC LISTED E180881 I.T.E.

ADAM-6052 FCC CE RoHS COMPLIANT 2002/95/EC LISTED E180881 I.T.E.

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_{DC}
                        Logic level 1: 10 ~ 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**   12
- **Dry Contact**   Logic level 0: close to GND
                        Logic level 1: open
- **Wet Contact**   Logic level 0: 0 ~ 3 V_{DC}
                        Logic level 1: 10 ~ 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**

Counter Input
- **Channels**   2
- **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**

Ordering Information
- **ADAM-6051**   16-ch Isolated DI/O with Counter Modbus TCP Module

Specifications

Digital Input
- **Channels**   8
- **Dry Contact**   Logic level 0: close to GND
                        Logic level 1: open
- **Wet Contact**   Logic level 0 : 0 ~ 3 V_{DC}
                        Logic level 1 : 10 ~ 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**   8 (Source Type)
- **Voltage Range**   10 ~ 35 V_{DC}
- **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_{DC}
- **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_{DC}
- **Supports Peer-to-Peer, GCL**
- **Supports User Defined Modbus Address**
- **Supports Modbus/TCP, TCP/IP, UDP, DHCP and HTTP Protocol**

Protection
- **Power Reversal Protection**
- **Isolation Protection**   2,000 V_{DC}

Environment
- **Operating Temperature**   -10 ~ 70°C (14 ~ 158°F)
- **Storage Temperature**   -20 ~ 80°C (-4 ~ 176°F)
- **Operating Humidity**   20 ~ 95% RH (non-condensing)
- **Storage Humidity**   0 ~ 95% RH (non-condensing)

All product specifications are subject to change without notice

Last updated : 19-Mar-2014