

# ADAM-6250

# ADAM-6251

# ADAM-6256

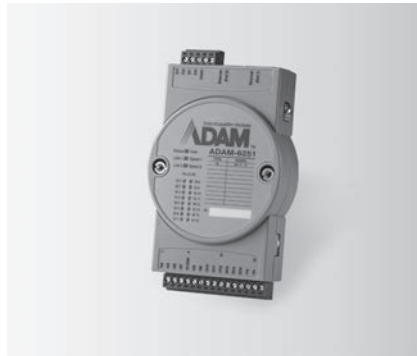
15-ch Isolated Digital I/O Modbus TCP Module

16-ch Isolated Digital Input Modbus TCP Module

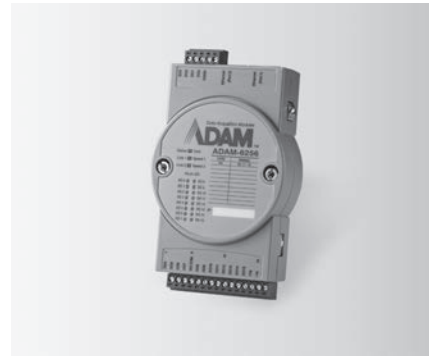
16-ch Isolated Digital Output Modbus TCP Module



ADAM-6250



ADAM-6251



ADAM-6256



## Specifications

### Digital Input

- **Channels** ADAM-6250: 8  
ADAM-6251: 16
- **Dry Contact** Logic 0: Open  
Logic 1: Closed to DGND
- **Wet Contact** Logic 0: 0 ~ 3 V<sub>DC</sub> or 0 ~ -3 V<sub>DC</sub>  
Logic 1: 10 ~ 30 V<sub>DC</sub> or -10 ~ -30 V<sub>DC</sub>  
(Dry/Wet Contact decided by Switch)
- **Input Impedance** 5.2 kΩ (Wet Contact)
- **Transition Time** 0.2 ms
- **Frequency Input Range** 0.1 ~ 3kHz
- **Counter Input** 3kHz (32 bit + 1 bit overflow)
- **Keep/Discard Counter Value when power off**
- **Supports Inverted DI Status**

### Digital Output

- **Channels** ADAM-6250: 7 (Sink Type)  
ADAM-6256: 16 (Sink Type)
- **Output Voltage Range** 10 ~ 30 V<sub>DC</sub>
- **Normal Output Current** 100 mA (per channel)
- **Pulse Output** Up to 5kHz
- **Delay Output** High-to-Low and Low-to-High

## Ordering Information

- **ADAM-6250** 15-ch Isolated Digital I/O Modbus TCP Module
- **ADAM-6251** 16-ch Isolated Digital Input Modbus TCP Module
- **ADAM-6256** 16-ch Isolated Digital Output Modbus TCP Module

## Common Specifications

### General

- **Ethernet** 2-port 10/100 Base-TX (for Daisy Chain)
- **LED Indication** ADAM-6250: 8 DI + 7 DO  
ADAM-6251: 16 DI  
ADAM-6256: 16 DO
- **Protocol** Modbus/TCP, TCP/IP, UDP, HTTP, DHCP, MQTT, SNMP
- **Connector** Plug-in 5P/15P screw terminal blocks
- **Power Input** 10 - 30 V<sub>DC</sub> (24 V<sub>DC</sub> standard)
- **Watchdog Timer** System (1.6 seconds)  
Communication (Programmable)
- **Dimensions** 70 x 122 x 27 mm
- **Protection** Built-in TVS/ESD protection  
Power Reversal protection  
Over Voltage protection: +/- 35V<sub>DC</sub>  
Isolation protection: 2500 V<sub>DC</sub>
- **Power Consumption** ADAM-6250: 3 W @ 24 V<sub>DC</sub>  
ADAM-6251: 2.7 W @ 24 V<sub>DC</sub>  
ADAM-6256: 3.2 W @ 24 V<sub>DC</sub>

### Features

- Daisy chain connection with auto-bypass protection
- Remote monitoring and control with smart phone/pad
- Group configuration capability for multiple module setup
- DI/O LED Indication
- Flexible user-defined Modbus address.
- Intelligent control ability by Peer-to-Peer and GCL function
- Multiple protocol support: Modbus/TCP, TCP/IP, UDP, HTTP, DHCP, MQTT, SNMP
- Web language support: XML, HTML 5, Java Script
- System configuration backup
- User Access Control

### Environment

- **Operating Temperature** -10 ~ 70°C (14 ~ 158°F)  
-40 ~ 70°C (-40~158°F) (B version)
- **Storage Temperature** -20 ~ 80°C (-4 ~ 176°F)  
-40 ~ 80°C (-40~176°F) (B version)
- **Operating Humidity** 20 ~ 95% RH (non-condensing)
- **Storage Humidity** 0 ~ 95% RH (non-condensing)