Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

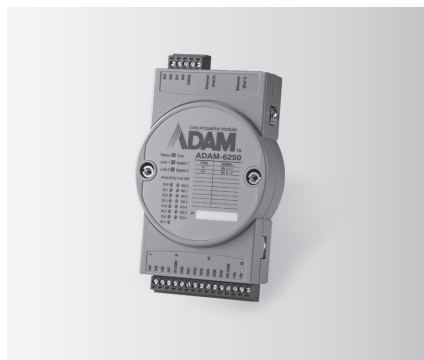## Contact us

ADAM-6250
ADAM-6251
ADAM-6256

15-ch Isolated Digital I/O Modbus TCP Module

16-ch Isolated Digital Input Modbus TCP Module

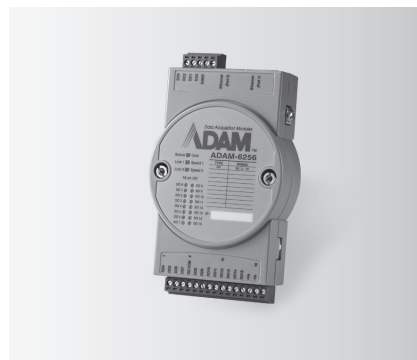**16-ch Isolated Digital Output Modbus TCP Module**

ADAM-6250   FCC CE ☒ ⑩   ADAM-6251   FCC CE ☒ ⑩   ADAM-6256   FCC CE ☒ ⑩

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_{DC} or 0 ~ -3 V_{DC}
                            Logic 1: 10 ~ 30 V_{DC} or -10 ~ -30 V_{DC}
                            (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_{DC}
- **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_{DC} (24 V_{DC} 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_{DC}
                            Isolation protection: 2500 V_{DC}
- **Power Consumption**   ADAM-6250: 3 W @ 24 V_{DC}
                            ADAM-6251: 2.7 W @ 24 V_{DC}
                            ADAM-6256: 3.2 W @ 24 V_{DC}

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)
- **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: 18-Oct-2017