ADAM-6250
ADAM-6251
ADAM-6256

15-ch Isolated Digital I/O Modbus TCP Module

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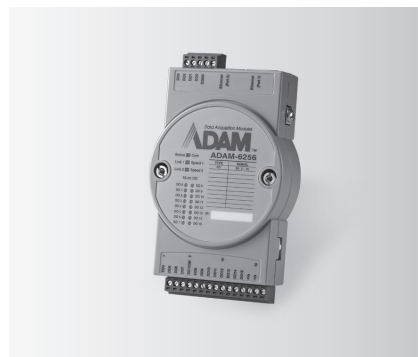
16-ch Isolated Digital Output Modbus TCP Module

ADAM-6250 FCC C€ ☒ ⑩

ADAM-6251 FCC C€ ☒ ⑩

ADAM-6256 FCC C€ ☒ 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: $0 \sim 3\ V_{DC}$ or $0 \sim -3\ V_{DC}$
  Logic 1: $10 \sim 30\ V_{DC}$ or $-10 \sim -30\ V_{DC}$
  (Dry/Wet Contact decided by Switch)
- **Input Impedance** $5.2\ k\Omega$ (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** $10 \sim 30\ V_{DC}$
- **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: $+/- 35 V_{DC}$
  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)
  -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)