ADAM-6050 **ADAM-6051 ADAM-6052**

18-ch Isolated Digital I/O Modbus TCP

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-6051





ADAM-6052



Specifications

Digital Input

Channels

 Dry Contact Logic level 0: close to GND Logic level 1: open Wet Contact Logic level 0: 0 ~ 3 V_{D0}

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

Supports 5 kHz Pulse Output

Supports High-to-Low and Low-to-High Delay Output

Ordering Information

ADAM-6050-D1

18-ch Isolated DI/O Modbus TCP Module

Specifications

Digital Input

Channels

Dry Contact Logic level 0: close to GND Logic level 1: open **Wet Contact** Logic level 0: 0 ~ 3 VDC 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

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

ADAM-6051-D

Channels

2 (sink type), open collector to 30 V, 100 mA maximum Inad

16-ch Isolated DI/O with Counter Modbus TCP

Supports 5 kHz Pulse Output

Supports High-to-Low and Low-to-High Delay

Ordering Information

Specifications

Digital Input

Channels

Dry Contact Logic level 0: open Logic level 1: close to GND

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 $10 \sim 35 \, V_{DC}$ Current 1 A (per channel)

Supports 5 kHz Pulse Output

Supports High-to-Low and Low-to-High Delay

- Supports Over Current Protection

Ordering Information

ADAM-6052-D

16-ch Source-type Isolated DI/O Modbus TCP Module

Common Specifications

General

Certification

FCC, CE, UL

*Class I, Division 2, Groups A, B, C and D Hazardous Locations 10/100Base-T(X)

Power Consumption 2 W @ 24 V_{DC} **Connectors**

All product specifications are subject to change without notice.

terminal block (I/O and power) Watchdog System (1.6 second) and Communication (programmable)

1 x RJ-45 (LAN), Plug-in screw

Power Input

 $10 \sim 30 V_{DC}$

Module

Supports Peer-to-Peer, GCL **Supports User Defined Modbus Address**

Supports Modbus/TCP, TCP/IP, UDP, RESTful, MQTT (D version), SNMP (D version) Protocol

Protection

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

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 ~ 85°C (-40~185°F)

Operating Humidity

Storage Humidity

20 ~ 95% RH (non-condensing) 0~95% RH (non-condensing)

* For ADAM-6050 and ADAM-6052