# **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







### **Specifications**

#### **Digital Input**

Wet Contact

Channels

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

Logic level 0: 0 ~ 3 V<sub>DC</sub> Logic level 1: 10 ~ 30 V<sub>DC</sub>

 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

### **Ordering Information**

ADAM-6050

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 V<sub>DC</sub> Logic level 1: 10 ~ 30 VDC

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

#### **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

### **Specifications**

#### **Digital Input**

Channels

Dry Contact Logic level 0: close to GND

Logic level 1: open

Wet Contact Logic level 0:0~3 V<sub>DC</sub> Logic level 1: 10 ~ 30 V<sub>DC</sub>

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

## **Ordering Information**

ADAM-6051

16-ch Isolated DI/O with Counter Modbus TCP Module

Counter Mode: 0 ~ 4.5 kHz

### **Common Specifications**

### General

- LAN 10/100Base-T(X) Power Consumption 2 W @ 24 V<sub>DC</sub>

Connectors 1 x RJ-45 (LAN), Plug-in screw terminal block (I/O and power)

System (1.6 second) and Watchdog Communication (programmable) Power Input

 $10 \sim 30 \, V_{DC}$ 

Supports Peer-to-Peer

Supports GCL

Supports Modbus/TCP, TCP/IP, UDP and **HTTP Protocol** 

#### **Protection**

Power Reversal Protection

Isolation Protection 2,000 V<sub>DC</sub>

### **Environment**

Operating -10 ~ 70° C  $(14 \sim 158^{\circ} F)$ Temperature

Storage Temperature  $-20 \sim 80^{\circ}$  C (-4 ~ 176° F)

20 ~ 95% RH Operating Humidity (non-condensing) Storage Humidity 0~95% RH

(non-condensing)