# **ADAM-4053** ADAM-4055 ADAM-4080

### **16-ch Digital Input Module**

### 16-ch Isolated Digital I/O Module with Modbus

### 2-ch Counter/Frequency Module







CEF© ROHS ADAM-4053

# **Specifications**

#### General

Connectors 2 x plug-in terminal blocks (#14 ~ 22 AWG) Power Consumption 0.4 W @ 24 V DC typ.

0.7 W @ 24 V DC max. Watchdog Timer System (1.6 second) ASCII command and Supported Protocols

Modbus/RTU

#### **Digital Input**

Channels 16

Input Level Dry contact:

Wet contact:

Logic level 0: Closed to

Logic level 1: Open Logic level 0: 2 V

Logic level 1:4 ~ 30 V or floating

Support DO type: Sink (NPN) only

 Effective Distance 500 m max. (dry contact only)

# **Specifications**

#### General

Connectors 2 x plug-in terminal blocks (#14 ~ 28 AWG) Power Consumption 1 W @ 24 V DC typ. 1.7 W @ 24 V DC max. Watchdog Timer System (1.6 second) & Communication Supported Protocols ASCII command and Modbus/

RTII Isolation Voltage 2,500 V<sub>DC</sub> **LED Indicators** Yes

#### **Digital Input**

Channels

Dry/Wet Contact decided by switch or jumper

Input Level Dry Contact:

Logic level 0: Open Logic level 1: Closed to **GND** 

Wet Contact: Logic level 0: 0 ~ 3 V max. or floating

> Logic level 1: 10 ~ 50 V Support DO type: Sink (NPN) and Source (PNP)

Overvoltage  $70 V_{DC}$ Protection

#### **Digital Output**

Channels 8, open collector to 40 V (200 mA max. load) Power Dissipation Channel: 1 W max. Total: 2.2 W (8 Channels)

### **Specifications**

#### General

Connectors 2 x plug-in terminal blocks (#14 ~ 22 AWG) ■ Power Consumption 2.0 W @ 24 V<sub>DC</sub> Watchdog Timer System (1.6 second) Supported Protocols ASCII command

LED Indicators 5-digit readout,

Ch 0 or Ch 1 (programmable)

#### **Counter Input**

Channels 2 independent counters (32-bit + 1-bit overflow)

- Input Frequency 50 kHz max. Input Pulse Width >10 µs.

Input Mode Isolated or non-isolated Isolated Input Level Logic level 0: 1 V max.

Logic level 1: 3.5~30 V  $2,\!500\;V_{RMS}$ Isolation Voltage

Programmable Non-isolated Input Level threshold: Logic level 0: 0.8 Vmax.

Logic level 1: 2.4 ~ 5.0 V Maximum Count 4,294,967,295 (32 bits) Preset Type Absolute or relative

**Programmable**  $2 \mu s \sim 65 ms$ **Digital Noise Filter** 

Alarm Alarm comparators on each counter

Frequency 5 Hz ~ 50 kHz Measurement Range

**Programmable** 1 or 0.1 second **Built-in Gate Time** 

#### **Digital Output**

Channels 2. open collector to 30 V. 30 mA max. load Power Dissipation 300 mW for each channel

# **Common Specifications**

#### General

Power Input Unregulated 10 ~ 30 VDC

#### **Environment**

- Humidity 5 ~ 95% RH Operating -10 ~ 70°C Temperature (14 ~ 158° F) ■ Storage Temperature -25 ~ 85°C

(-13 ~ 185° F)

# **Ordering Information**

 ADAM-4053 16-ch Digital Input

Module

 ADAM-4055 16-ch Isolated Digital I/O Module with

Modbus

 ADAM-4080 2-ch Counter/ Frequency Modules

AD\4NTECH |

All product specifications are subject to change without notice.