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







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 Modbus/RTU

Digital Input

Channels 16

Supported Protocols

Input Level

Dry contact: Logic level 0: close to GND Logic level 1: open Wet contact: Logic level 0: 2 V max. Logic level 1: 4 ~ 30 V

 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/RTU

 Isolation Voltage 2,500 V_{DC} **LED Indicators** Yes

Digital Input

Channels 8

 Input Level Dry Contact:

> Logic level 1: close to GND Logic level 0: 3 V max. Wet Contact: Logic level 1: 10 ~ 50 V $70 V_{DC}$

Logic level 0: open

16-ch Digital Input

16-ch Isolated Digital I/O

2-ch Counter/Frequency

Module with Modbus

Module

Modules

Overvoltage Protection

Digital Output

ADAM-4053

ADAM-4055

ADAM-4080

Channels 8, open collector to 40 V (200 mA max. load)

Power Dissipation Channel: 1 W max. Total: 2.2 W (8 Channels)

Ordering Information

Specifications

General

Connectors 2 x plug-in terminal blocks (#14 ~ 22 AWG) ■ Power Consumption 2.0 W @ 24 V_{DC}

 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

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

■ Storage Temperature -25 ~ 85°C (-13 ~ 185° F)

AD\ANTECH

RS-485 I/O Modules: ADAM-4000