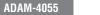
ADAM-4055 ADAM-4056S/4056SO ADAM-4080

16-ch Isolated Digital I/O Module with 12-ch Sink/Source Type Isolated Digital **Output Modules with Modbus**

2-ch Counter/Frequency Module













ADAM-4080

FM (E ROHS

Specifications

General

Connectors 2 x plug-in terminal blocks (#14 ~ 28 AWG)

 Power Consumption 1 W @ 24 V_{DC} Watchdog Timer

System (1.6 second) & Communication

ASCII command and Supported Protocols

Modbus/RTU Isolation Voltage 2.500 Vpc

LED Indicators **Digital Input**

Channels

Input Level

Logic level 0: open Dry Contact: Logic level 1: close to GND Wet Contact: Logic level 0: 3 V max. Logic level 1: 10 ~ 50 V

 $70 V_{DC}$

Yes

Overvoltage Protection

Digital Output

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

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

Specifications

General

Connectors 2 x Plug-in terminal blocks (#14~22 AWG)

 Watchdog Timer System (1.6 second) & Communication

ASCII command and **Support Protocol** Modbus/RTU

 Isolation Voltage 5000 V_{DC} LED Indicators Yes

ADAM-4056S

 Digital Output Channels Open collector to 40V

(200mA max. load) Power Dissipation Channel: 1 W max

Total: 4 W (12 Channels)

 Digital Output Type Sink

ADAM-4056SO

Digital Output Channels

VCC: 10 ~ 35 V_{DC}

Current: 1A (per channel)

 Digital Output Type Source

Over Current Detection and Protection

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

Counter Input

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

Input Frequency 50 kHz max. Input Pulse Width >10 us.

 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

Non-isolated Programmable Input Level threshold:

Logic level 0: 0.8 Vmax. Logic level 1: 2.4 ~ 5.0 V Maximum Count 4,294,967,295 (32-bit) Preset Type Absolute or relative

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

Alarm Alarm comparators on each

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

300 mW for each channel Power Dissipation

Common Specifications

General

 Power Input Unregulated 10 ~ 30 V_{DC}

Environment

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

(-13 ~ 185°F)

Ordering Information

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

ADAM-4056S 12-ch Sink Type Isolated Digital Output Module with Modbus

ADAM-4056SO 12-ch Source Type Isolated Digital Output

Module with Modbus ADAM-4080 2-ch Counter/Frequency

Modules