

# 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



ADAM-4053



ADAM-4055



ADAM-4080



### 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)
- **Supported Protocols** ASCII command and Modbus/RTU

#### Digital Input

- **Channels** 16
- **Input Level**  
Dry contact: Logic level 0: Closed to GND  
Logic level 1: Open  
Wet contact: 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/RTU
- **Isolation Voltage** 2,500 V<sub>DC</sub>
- **LED Indicators** Yes

#### Digital Input

- **Channels** 8  
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 Protection** 70 V<sub>DC</sub>

#### 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  $\mu$ s.
- **Input Mode** Isolated or non-isolated
- **Isolated Input Level** Logic level 0: 1 V max.  
Logic level 1: 3.5~30 V
- **Isolation Voltage** 2,500 V<sub>RMS</sub>
- **Non-isolated Input Level** Programmable threshold:  
Logic level 0: 0.8 V<sub>max</sub>.  
Logic level 1: 2.4 ~ 5.0 V
- **Maximum Count** 4,294,967,295 (32 bits)
- **Preset Type** Absolute or relative
- **Programmable Digital Noise Filter** 2  $\mu$ s ~ 65 ms
- **Alarm** Alarm comparators on each counter
- **Frequency Measurement Range** 5 Hz ~ 50 kHz
- **Programmable Built-in Gate Time** 1 or 0.1 second

#### 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 V<sub>DC</sub>

#### Environment

- **Humidity** 5 ~ 95% RH
- **Operating Temperature** -10 ~ 70°C (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

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [I/O Modules](#) category:*

*Click to view products by [Advantech](#) manufacturer:*

Other Similar products are found below :

[70L-OAC-L](#) [G21960000700](#) [G34960002700](#) [G88104401](#) [IDC-5B](#) [OACU](#) [C4SWOUT](#) [FC6A-T32K3](#) [SNAP-OAC5MA](#) [FC6A-N16B3](#)  
[FC6A-N32B3](#) [FC6A-T16P3](#) [G3TAOD201SDC24](#) [PB32HQ](#) [PB16T](#) [PB8](#) [PB8H](#) [C200H-OD211](#) [GT1-AD04CST](#) [GT1-DA04](#) [70GRCQ24-](#)  
[HS](#) [M-OAC5](#) [G4OAC24AMA](#) [2736505](#) [6202](#) [6402](#) [IL MOD BK DI8 DO4-PAC](#) [FC6A-J2C1](#) [FC6A-KC1C](#) [FC6A-N08A11](#) [FC6A-M24BR1](#)  
[FC6A-K4A1](#) [FC6A-T32P3](#) [9-1393028-2](#) [GP32900003700](#) [641-480-5022](#) [PB16H](#) [WISE-4050/LAN-B](#) [WISE-S614T-A](#) [ADAM-4068-C](#)  
[56475](#) [ADAM-4017+-F](#) [ADAM-4118-C](#) [AMAX-4856-B](#) [WISE-4050-B](#) [ADAM-4051-C](#) [ADAM-4053-F](#) [GT1-AD08MX](#) [TM5SDO6TBFS](#)  
[70Q3446](#)