

ADAM-4053 ADAM-4055 ADAM-4056S/4056SO

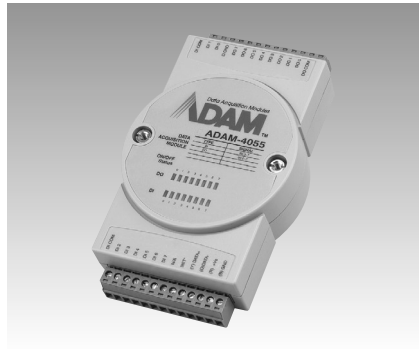
16-channel Isolated Digital Input Module

16-channel Isolated Digital I/O Module with LED and Modbus®

12-channel Sink/Source Type Isolated Digital Output Module



ADAM-4053



ADAM-4055



ADAM-4056S/4056SO



Specifications

General

- **Connectors** 2 x Plug-in terminal blocks (#14 ~ 22 AWG)
- **Power Consumption** 1 W @ 24 V_{DC}

Digital Input

- **Channels** 16
- **Digital 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 (dry contact only)** 500 m max.

Specifications

General

- **Connectors** 2 x Plug-in terminal blocks (#14 ~ 28 AWG)
- **LED Indicators** Power
- **Power Consumption** 1 W @ 24 V_{DC}

Digital Input

- **Channels** 8
- **Digital Input**
 - Dry Contact: Logic level 0: open
Logic level 1: close to GND
 - Wet Contact: Logic level 0: +3 V_{max}
Logic level 1: +10~50 V

- **Optical Isolation** 2500 V_{DC}
- **Overvoltage Protection** 70 V_{DC}

Digital Output

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

Power Dissipation

- **Channel Max** 1 W
- **Total** 2.2 W

Specifications

General

- **Connectors** 2 x Plug-in terminal blocks (#14 ~ 28 AWG)
- **DO Channels** 12
- **Optical Isolation** 5,000 V_{DC}
- **Power Consumption** 1 W @ 24 V_{DC} (Both)

ADAM-4056S

- **Digital Output** Open collector to 40V (200mA max. load)
- **Power Dissipation** Channel Max: 1 W
- **Total** 2.2 W
- **Digital Output Type** Sink
- **I/O Type** Sink Type Output

ADAM-4056SO

- **Digital Output** VCC: 10 ~ 35 V_{DC}
Current: 1A (per ch.)
- **Digital Output Type** Source
- **I/O Type** Source Type Output
- **Over Current Detection and Protection**

1
Software

2
IPPC

3
TPC

4
FPM

5
ATM & AWS

6
DA&C

7
cPCI

8
ADAM-3000

9
Motion Control

10
ICOM

11
Industrial Networking

12
UNO

13
ADAM-4000

14
ADAM-5000

15
ADAM-6000

16
ADAM-8000

17
BAS

Common Specifications

- **Dimensions** 70 x 122 x 30 mm
- **Enclosure** ABS+PC
- **Mounting** DIN 35 rail, stack, wall
- **Power Input** Unregulated 10~30 V_{DC}
- **Watchdog Timer** 1.6 sec. (system)

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-channel Isolated Digital Input Module
- **ADAM-4055** 16-channel Isolated Digital I/O Module with LED and Modbus®
- **ADAM-4056S** 12-channel Sink Type Isolated Digital Output Module
- **ADAM-4056SO** 12-channel Source Type Isolated Digital Output Module

ADAM 4000/4100 Series

Common Specifications

Communication

- RS-485 (2-wire) to host
- Speeds: 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps (ADAM-4080, ADAM-4080D only support up to 38400 bps)
- Max. communication distance: 4000 feet (1.2 km)
- Power and communication LED indicator
- ASCII command/response protocol
- Communication error checking with checksum
- Asynchronous data format:
 Advantech protocol: 1 start bit, 8 data bits, 1 stop bit, no parity
 Modbus protocol: 1 start bit, 8 data bits, 1 or 2 stop bit, parity check (none, odd, even) (ADAM-4100 series only)
- Up to 256 multidrop modules per serial port
- Online module insertion and removal
- Transient suppression on RS-485 communication lines

Dimensions

