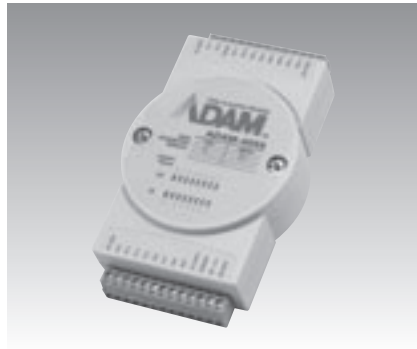


# ADAM-4053 ADAM-4055 ADAM-4056S/4056SO

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



ADAM-4053



ADAM-4055



ADAM-4056S/4056SO



## Specifications

### General

- **Connectors** 2 x Plug-in terminal blocks (#14 ~ 22 AWG)
- **Watchdog Timer** System (1.6 second)
- **Support Protocol** ASCII command

### Digital Input

- **Channels** 16
- **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)
- **Watchdog Timer** System (1.6 second) & Communication
- **Support Protocol** ASCII command and Modbus/RTU
- **Isolation Voltage** 2500 V<sub>DC</sub>
- **LED Indicators** Yes

### Digital Input

- **Channels** 8
- **Input Level**  
Dry Contact: Logic level 0: open  
Logic level 1: close to GND  
Wet Contact: Logic level 0: +3 V<sub>max</sub>  
Logic level 1: +10 ~ 50 V  
(Note: The Digital Input Level 0 and 1 status can be inverted)
- **Overvoltage Protection** 70 V<sub>DC</sub>

### Digital Output

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

## Specifications

### General

- **Connectors** 2 x Plug-in terminal blocks (#14~22 AWG)
- **Watchdog Timer** System (1.6 second) & Communication
- **Support Protocol** ASCII command and Modbus/RTU
- **Isolation Voltage** 5000 V<sub>DC</sub>
- **Digital Output Channels** 12
- **LED Indicators** Yes

### ADAM-4056S

- **Digital Output** Open collector to 40V (200mA max. load)
- **Power Dissipation** Channel: 1 W max  
Total: 2.2 W (8 Channels)
- **Digital Output Type** Sink

### ADAM-4056SO

- **Digital Output** VCC: 10 ~ 35 V<sub>DC</sub>  
Current: 1A (per channel)
- **Digital Output Type** Source
- **Over Current Detection and Protection**

## Common Specifications

- **Power Input** Unregulated 10 ~ 30 V<sub>DC</sub>
- **Power Consumption** 1W @ 24 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-4056S** 12-ch Sink Type Isolated Digital Output Module with Modbus
- **ADAM-4056SO** 12-ch Source Type Isolated Digital Output Module with Modbus