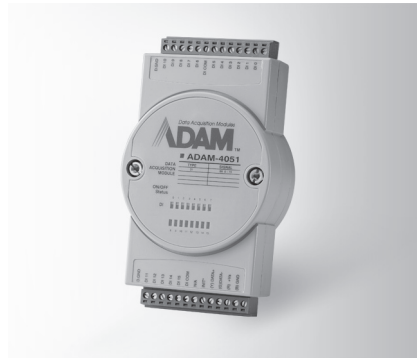# ADAM-4050
ADAM-4051
ADAM-4052

15-ch Digital I/O Module

16-ch Isolated Digital Input Module with Modbus

8-ch Isolated Digital Input Module

| ADAM-4050 | ADAM-4051 | ADAM-4052 |

Specifications

General

- **Connectors** — 2 x plug-in terminal blocks (#14 ~ 22 AWG)
- **Power Consumption** — 0.4 W @ 24 V_{DC}
- **Watchdog Timer** — System (1.6 second)
- **Supported Protocols** — ASCII command

Digital Input

- **Channels** — 7
- **Input Level** — Logic level 0: 1 V max.
  Logic level 1: 3.5 ~ 30 V
  Pull up current: 0.5 mA,
  10 kΩ resistor to 5 V

Digital Output

- **Channels** — 8
  open collector to 30 V,
  30 mA max. load
- **Power Dissipation** — 300 mW

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)
- **Supported Protocols** — ASCII command and Modbus/RTU
- **LED Indicators** — Yes

Digital Input

- **Channels** — 16
- **Input Voltage** — 50 V max
- **Input Level**
  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
  (Note: Digital Input levels 0 and 1 can be inverted)
- **Isolation Voltage** — 2,500 V_{DC}
- **Input Resistance** — 5.2 kΩ
- **Overvoltage Protection** — 70 V_{DC}

Specifications

General

- **Connectors** — 2 x plug-in terminal blocks (#14 ~ 22 AWG)
- **Power Consumption** — 0.4 W @ 24 V_{DC}
- **Watchdog Timer** — System (1.6 second)
- **Supported Protocols** — ASCII command

Digital Input

- **Channels** — 8
  (6 fully independent isolated channels, 2 isolated channels with common ground)
- **Input Level** — Logic level 0: 1 V max.
  Logic level 1: 3 ~ 30 V
- **Isolation Voltage** — 5,000 V_{RMS}
- **Input Resistance** — 3 kΩ

Common Specifications

General

- **Power Input** — Unregulated 10 ~ 30 V_{DC}

Environment

- **Operating Humidity** — 5 ~ 95% RH
- **Operating Temperature** — - 10 ~ 70°C (14 ~ 158°F)
- **Storage Temperature** — - 25 ~ 85°C (-13 ~ 185°F)

Ordering Information

- **ADAM-4050** — 15-ch Digital I/O Module
- **ADAM-4051** — 16-ch Isolated Digital Input Module with Modbus
- **ADAM-4052** — 8-ch Isolated Digital Input Module