

ADAM-6050 ADAM-6051 ADAM-6052

18-ch Isolated Digital I/O Module
14-ch Isolated Digital I/O Module
with 2-ch Counter
16-ch Source-type Isolated Digital
I/O Module



ADAM-6050



UL
E19081
LTE

CE FCC



RoHS
COMPLIANT
2002/95/EC



ADAM-6051



UL
E19081
LTE

CE FCC



RoHS
COMPLIANT
2002/95/EC



ADAM-6052



UL
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RoHS
COMPLIANT
2002/95/EC

Specifications

Digital Input

- **Channels** 12
- **Dry Contact** Logic level 0: close to GND
Logic level 1: open
- **Wet Contact** Logic level 0: 0 ~ 3 V_{DC}
Logic level 1: 10 ~ 30 V_{DC}
- Supports 3 kHz Counter Input (32-bit + 1-bit overflow)
- Keep/Discard Counter Value when Power-off
- Supports 3 kHz Frequency Input
- Supports Inverted DI Status

Digital Output

- **Channels** 6 (Sink Type)
- **Open Collector to 30 V, 100 mA maximum load**
- Supports 5 kHz Pulse Output
- Supports High-to-Low and Low-to-High Delay Output

Ordering Information

- **ADAM-6050** 18-ch Isolated DI/O Module

Specifications

Digital Input

- **Channels** 12
- **Dry Contact** Logic level 0: close to GND
Logic level 1: open
- **Wet Contact** Logic level 0: 0 ~ 3 V_{DC}
Logic level 1: 10 ~ 30 V_{DC}
- Supports 3 kHz Counter Input (32-bit + 1-bit overflow)
- Keep/Discard Counter Value when Power-off
- Supports 3 kHz Frequency Input
- Supports Inverted DI Status

Counter Input

- **Channels** 2
- **Mode** Counter, Frequency
- **Keep/Discard Counter Value when Power-off** 4,294,967,295 (32-bit + 1-bit overflow)
- **Maximum Count**
- **Input Frequency** Frequency Mode: 0.2 ~ 4500 Hz
Counter Mode: 0 ~ 4.5 kHz

Digital Output

- **Channels** 2 (Sink Type)
- **Open Collector to 30 V, 100 mA maximum load**
- Supports 5 kHz Pulse Output
- Supports High-to-Low and Low-to-High Delay Output

Ordering Information

- **ADAM-6051** 16-ch Isolated DI/O with Counter Module

Specifications

Digital Input

- **Channels** 8
- **Dry Contact** Logic level 0: close to GND
Logic level 1: open
- **Wet Contact** Logic level 0: 0 ~ 3 V_{DC}
Logic level 1: 10 ~ 30 V_{DC}
- Supports 3 kHz Counter Input (32-bit + 1-bit overflow)
- Keep/Discard Counter Value when Power-off
- Supports 3 kHz Frequency Input
- Supports Inverted DI Status

Digital Output

- **Channels** 8 (Source Type)
- **Digital Output** 10 ~ 35 V_{DC}
- **Current** 1 A (per channel)
- Supports 5 kHz Pulse Output
- Supports High-to-Low and Low-to-High Delay Output
- Supports Over Current Protection

Ordering Information

- **ADAM-6052** 16-ch Source-type Isolated DI/O Module

Common Specifications

General

- **LAN** 10/100Base-T(X)
- **Power Consumption** 2 W @ 24 V_{DC}
- **Connectors** 1 x RJ-45 (LAN), Plug-in screw terminal block (I/O and power)
- **Watchdog** System (1.6 second) and Communication (programmable)

- **Power Input** 10 ~ 30 V_{DC}
- Supports Peer-to-Peer
- Supports GCL
- Supports Modbus/TCP, TCP/IP, UDP and HTTP Protocol

Protection

- **Power Reversal Protection**
- **Isolation Protection** 2,000 V_{DC}

Environment

- **Operating Temperature** -10 ~ 70° C
- **Storage Temperature** -20 ~ 80° C
- **Humidity (Operating)** 20 ~ 95% RH (non-condensing)
- **Humidity (Storage)** 0 ~ 95% RH (non-condensing)