

# ADAM-6024

## 12-ch Isolated Universal I/O Module



### General

- **Certification:** CE, FCC, UL
- **LAN:** 10/100Base-T(X)
- **Connectors:**
  - 1 x RJ-45 (LAN)
  - 2 x plug-in terminal blocks (#14 ~ 28 AWG)
- **Power Input:** 10 ~ 30 VDC
- **Power Consumption:** 4 W @ 24 VDC
- **Watchdog Timer:** System (1.6 s) & Communication
- **Supports Peer-to-Peer (Receiver only)**
- **Supports GCL (Receiver only)**
- **Supports Modbus/TCP, TCP/IP, UDP, RESTful Protocols**

### Protection

- **Isolation Protection:** 2000 VDC
- **DI Over Voltage Protection:** 35 VDC
- **Built-in TVS/ESD Protection**
- **Power Reversal Protection**

### Environment

- **Operating Humidity:** 20 ~ 95% RH (non-condensing)
- **Storage Humidity:** 0 ~ 95% RH (non-condensing)
- **Operating Temperature:** -10 ~ 50°C (14 ~ 122°F)
- **Storage Temperature:** -20 ~ 80°C (-4 ~ 176°F)

### Analog Input

- **Channels:** 6 differential
- **Input Type:** V, mA
- **Input Range:**  $\pm 10$ VDC, 0~20mA, 4~20mA
- **Input Impedance:** 20 M $\Omega$
- **Accuracy:**  $\pm 0.1\%$  FSR
- **Resolution:** 16-bit
- **Sampling Rate:** 10 samples/sec
- **CMR @ 50/60 Hz:** 90 dB
- **NMR @ 50/60 Hz:** 60 dB
- **Span Drift:**  $\pm 25$  ppm/°C
- **Zero Drift:**  $\pm 6$   $\mu$ V/°C

### Analog Output

- **Channels:** 2
- **Output Type:** V, mA
- **Output Range:** 0~10VDC, 4~20mA, 0~20mA
- **Accuracy:**  $\pm 0.1\%$  of FSR
- **Resolution:** 12-bit
- **Drift:**  $\pm 50$  ppm/°C
- **Current Load Resistor:** Max. 500  $\Omega$
- **Voltage Load Resistor:** Min. 1 K $\Omega$

### Digital Input

- **Channels:** 2
- **Logic level 0:**
  - Dry Contact:** Close to GND
  - Wet Contact:** 0 ~ 3VDC
- **Logic level 1:**
  - Dry Contact:** Open
  - Wet Contact:** 10 ~ 30VDC

### Digital Output

- **Channels:** 2
- **Type:** Open Collector
- **Load Voltage:** up to 30V
- **Max Load Current:** 100mA
- **Power Dissipation:** 300mW for each module