

# APAX-5017H

# APAX-5028

12-ch High Speed Analog Input Module

8-ch Analog Output Module



APAX-5017H



## Specifications

### General

- **Certification** CE, FCC class A
- **Dimensions (W x H x D)** 30 x 139 x 100 mm
- **Enclosure** ABS+PC
- **Weight** 175 g
- **Power Consumption** 3.5 W @ 24 V<sub>DC</sub> (typical)

### Analog Input

- **Channels** 12
- **Input Impedance** 2 M $\Omega$  (Voltage), 120  $\Omega$  (Current)
- **Input Type** V, mV, mA
- **Input Range** 0 ~ 500 mV,  $\pm 10$  V, 0 ~ 10 V, 0 ~ 20 mA, 4 ~ 20 mA
- **Configure Different Range for Each Channel**
- **Resolution** 12-bit with accuracy  $\pm 0.1\%$  or better of Full Scale Range (Voltage),  $\pm 0.2\%$  or better of Full Scale Range (Current)
- **Sampling Rate** 1,000 sample/second (per channel)

\* Support Integration function to eliminate field site noise at sample rate: 100 sample/second

- **Span Drift**  $\pm 25$  ppm/ $^{\circ}$ C
- **Zero Drift**  $\pm 6$   $\mu$ V/ $^{\circ}$ C
- **Wire Burn-out Detection** Yes (4 ~ 20 mA only)

### Protection

- **Over Voltage Protection**
- **2,500 V<sub>DC</sub> Isolation Between Channels and Backplane**

Note: The voltage between any two pins must not exceed 15 V

### Environment

- **Operating Temperature** -10 ~ 60 $^{\circ}$ C (when mounted vertically)
- **Storage Temperature** -40 ~ 70 $^{\circ}$ C
- **Relative Humidity** 5 ~ 95% (non-condensing)

## Ordering Information

- **APAX-5017H** 12-ch High Speed Analog Input Module



APAX-5028



## Specifications

### General

- **Certification** CE, FCC class A
- **Dimensions (W x H x D)** 30 x 139 x 100 mm
- **Enclosure** ABS+PC
- **Weight** 175 g
- **Power Consumption** 3.5 W @ 24 V<sub>DC</sub> (typical)

### Analog Output

- **Channels** 8
- **Output Type** V, mA
- **Output Range**  $\pm 2.5$  V,  $\pm 5$  V,  $\pm 10$  V, 0 ~ 2.5 V, 0 ~ 5 V, 0 ~ 10 V, 0 ~ 20 mA, 4 ~ 20 mA
- **Configure Different Range for Each Channel**
- **Resolution** 14-bit with accuracy  $\pm 0.1\%$  or better of Full Scale Range
- **Settling time** about 500  $\mu$ s
- **Slew Rate** 0.7 V<sub>DC</sub>/ $\mu$ s (per channel)
- **Span Drift**  $\pm 60$  ppm/ $^{\circ}$ C
- **Zero Drift**  $\pm 275$  mV/ $^{\circ}$ C (Voltage),  $\pm 250$  mV/ $^{\circ}$ C (Current)
- **Drive Voltage (Current Mode)** 15 V<sub>DC</sub>
- **Load (Current Mode)** 0 ~ 500 $\Omega$

### Protection

- **Short Circuit Protection**
- **2,500 V<sub>DC</sub> Isolation Between Channels and Backplane**

### Environment

- **Operating Temperature** -10 ~ 60 $^{\circ}$ C (when mounted vertically)
- **Storage Temperature** -40 ~ 70 $^{\circ}$ C
- **Relative Humidity** 5 ~ 95% (non-condensing)

## Ordering Information

- **APAX-5028** 8-ch Analog Output Module