# APAX-5017H APAX-5028

## 12-ch High Speed Analog Input Module

### 8-ch Analog Output Module





### 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 TypeV, mV, mA

■ Input Range  $0 \sim 500 \text{ mV}, \pm 10 \text{ V}, 0 \sim 10 \text{ V}, 0 \sim 20 \text{ mA}, 4 \sim 20 \text{ mA}$ 

• Configure Different Range for Each Channel

■ **Resolution** 12-bit with accuracy ±0.1% or better of Full Scale

Range (Voltage),

±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/°C - Zero Drift  $\pm 6 \,\mu\text{V/°C}$ 

• 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°C (when mounted vertically)

■ Storage Temperature -40 ~ 70°C

• Relative Humidity 5 ~ 95% (non-condensing)

# **Ordering Information**

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



# **Specifications**

#### General

Certification CE, FCC class A
Dimensions (W x H x D) 30 x 139 x 100 mm

Enclosure ABS+PCWeight 175 g

■ Power Consumption 3.5 W @ 24 V<sub>DC</sub> (typical)

### **Analog Output**

Channels 8Output Type V, mA

Output Range  $\pm 2.5 \text{ V}, \pm 5 \text{ V}, \pm 10 \text{ V}, 0 \sim 2.5 \text{ V}, 0 \sim 5 \text{ V}, 0 \sim 10 \text{ V},$ 

0 ~ 20 mA, 4 ~ 20 mA

Configure Different Range for Each Channel

**Resolution** 14-bit with accuracy ±0.1% or better of Full Scale

Range

- **Settling time** about 500 μs

■ **Slew Rate** 0.7 V<sub>DC</sub>/µs (per channel)

Span Drift ±60 ppm/°C

Zero Drift ±275 mV/°C (Voltage)

±250 mV/°C (Current)

■ Drive Voltage 15 V<sub>DC</sub>

(Current Mode)

• Load (Current Mode)  $0 \sim 500\Omega$ 

### **Protection**

Short Circuit Protection

■ 2,500 V<sub>DC</sub> Isolation Between Channels and Backplane

### **Environment**

■ Operating Temperature -10 ~ 60°C (when mounted vertically)

■ Storage Temperature -40 ~ 70°C

■ **Relative Humidity** 5 ~ 95% (non-condensing)

## **Ordering Information**

APAX-5028
8-ch Analog Output Module