# **APAX-5040 APAX-5045**

## 24-ch Digital Input Module

### 24-ch Digital Input/Output Module





APAX-5040

ROHS COMPLIANT 2002795EC C FCC

## APAX-5045

# RoHS C E FCC

## **Specifications**

#### General

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

ABS+PC Enclosure - Weight 160 g

2 W @ 24 VDC (typical) Power Consumption LED per channel Status Display On: Logic level 1 Off: Logic level 0

#### **Digital Input**

Channels 24 Points per Common 12

Type Sink or Source Load Rated Value: 24 V<sub>DC</sub> Input Voltage For "0" signal:  $-5 \sim 5 V_{DC}$ 

For "1" signal:  $15 \sim 30 \ V_{DC}$  and  $-15 \sim -30 \ V_{DC}$ 

Input Impedance

Input Delay From logic level 0 to 1: 0.2 ms From logic level 1 to 0: 0.2 ms

- Operating Frequency Input Filter 3 ms

#### **Protection**

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

• Over Voltage Protection

#### **Environment**

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

-20 ~ 70°C (for PE version)

 Storage Temperature -40 ~ 70°C

 Relative Humidity 5 ~ 95% (non-condensing)

## **Ordering Information**

 APAX-5040 24-ch Digital Input Module

 APAX-5040PE 24-ch Digital Input Module with Wide Temperature

# **Specifications**

#### General

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

ABS+PC **Enclosure** Weight

165 g 2.5 W @ 24 V<sub>DC</sub> (typical) **Power Consumption** Status Display LED per channel On: Logic level 1 Off: Logic level 0

#### **Digital Input**

12 12 Channels Points per Common

Sink or Source Load Type Fated Value: 24  $V_{DC}$ For "0" signal: -5  $\sim$  5  $V_{DC}$ For "1" signal: 15  $\sim$  30  $V_{DC}$  and -15  $\sim$  -30  $V_{DC}$ Input Voltage

Input Impedance

Input Delay From Logic level 0 to 1: 0.2 ms From Logic level 1 to 0: 0.2 ms

**Operating Frequency** 3 kHz Input Filter

#### **Digital Output**

Channels 12 (Sink) **Voltage Range** 8 ~ 35 V<sub>DC</sub>

Rated Current Output 0.5 A (per channel, at signal "1")
Permitted Current Output Max. 0.75 A (at signal "1") Leakage Current 0.1 mA (at signal "0") Resistive load: 300 Hz (max.) Switch Rate:

Inductive load: max. 20 Hz (max.) Lamp load: max. 200 Hz (5W lamp and under 50  $\Omega$ ,

#### **Protection**

 $2,500\ V_{DC}$  Isolation Between Channels and Backplane

Over Voltage Protection (for DI channel) Short Circuit Protection (For DO channel)

Thermal Shutdown Protection (For DO channel)

#### **Environment**

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

-40 ~ 70°C Storage Temperature

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

## Orderina Information

 APAX-5045 24-ch Digital Input/Output Module