APAX-5046 APAX-5060 APAX-5080

24-ch Digital Output Module

12-ch Relay Output Module

4/8-ch High Speed Counter Module







Specifications

General

 Certifications CE. FCC class A 30 x 139 x 100 mm Dimensions $(W \times H \times D)$

ABS+PC Enclosure Weight 165 g

Power Consumption 2.5 W @ 24 V_{DC} (typical)

 Status Display LED per channel On: Logic level 1 Off: Logic level 0

Digital Output

Channels 24 (Sink Type) Voltage Range $8 \sim 35 \, V_{DC}$

• Rated Current Output 0.5 A (per channel, at signal

"1")

 Leakage Current 0.1 mA (at signal "0")

Switch Rate: Resistive load: 300 Hz (max.)

Inductive load: max. 20 Hz (max.)

Lamp load: max. 200 Hz (5W lamp and under 50 Ω ,

24 V)

Protection

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

Short Circuit Protection

Thermal Shutdown Protection

Environment

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

• Storage Temperature $-40 \sim 70^{\circ}$ C

Relative Humidity 5 ~ 95% (non-condensing)

Ordering Information

APAX-5046 24-ch Digital Output Module APAX-5001 1-slot Backplane Module APAX-5002 2-slot Backplane Module Power Supply for APAX APAX-5343E

Expansion Module

Specifications

General

Certifications CE. FCC class A 30 x 139 x 100 mm Dimensions (W x H x D) ABS+PC Enclosure 195 g Weight **Power Consumption** 2 W @ 24 V_{DC} (typical) LED per channel Status Display On: Logic level 1

Relay Output

Channels Relay Type Form A (SPST) **Contact Rating** 5 A @ 250 V_{AC}/30 V_{DC} (Resistive load)

Off: Logic level 0

Switching Capacity and Lifetime of the Contact (For Resistive Load)

30,000 operations (5 A @ 250 V_{AC}, **VDF** 10 operations/minute at 8° C) 70,000 operations (5 A @ 30 V_{DC}, 10 operations/ minute at 85° C) UL: 60,000 operations (5 A @ 250 V_{AC}) 100,000 operations (5 A @ 30 V_{DC}) Mechanism: 20,000,000 operations (no load, 300 operations/min)

Contact Resistance $30 \text{ m}\Omega$ (max.)

Insulation Resistance 1 G Ω (min.) at 500 V_{DC}

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

Environment

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

Storage Temperature $-40 \sim 70^{\circ}$ C

Relative Humidity 5 ~ 95% (non-condensing)

Ordering Information

APAX-5060 12-ch Relay Output Module APAX-5001 APAX-5002

1-slot Backplane Module 2-slot Backplane Module APAX-5343E Power Supply for APAX

Expansion Module

Specifications

General

Certifications CE, FCC class A Dimensions 30 x 139 x 100 mm (WxHxD) ABS+PC Énclosure Weight 170 g 2.5 W @ 24 V_{DC} (typical) **Power Consumption** Status Display LED per channel (for DI, DO channel)

Counter/Frequency Input

Channels and Mode 8 (Up and Frequency mode)

4 (Pulse/Direction, Up/Down, A/B phase mode)

On: Logic level 1

Off: Logic level 0

 Counting Range 32-bit + 1-bit overflow/ underflow

Minimum Pulse Width **Counter Frequency** 1 MHz (max.)

For "0" signal: 0 ~ 3 V_{DC} For "1" signal: 10 ~ 30 V_{DC} Input Voltage

Digital Input

Channels Type Source Load For "0" signal: $0 \sim 3 \ V_{DC}$ For "1" signal: $10 \sim 30 \ V_{DC}$ Input Voltage

Digital Output

Channels Output Voltage Range 8 ~ 35 V_{DC} Rated Output Current 0.5 A (per channel)

Protection

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

Over Voltage Protection (For DI and counter channel)

Short Circuit Protection (For DO channel)

Thermal Shutdown Protection (For DO channel)

Environment

Operating -10 ~ 60° C Temperature (when mounted vertically) Storage Temperature 5 ~ 95% (non condensing) Relative Humidity

Ordering Information

APAX-5080 4/8-ch High Speed Counter

Module 1-slot Backplane Module APAX-5001 APAX-5002 2-slot Backplane Module APAX-5343E Power Supply for APAX

Expansion Module