

APAX-5046

APAX-5060

APAX-5080

24-ch Digital Output Module

12-ch Relay Output Module

4-ch High Speed Counter Module



Specifications

General

- **Dimensions (W x H x D)** 30 x 139 x 100 mm
- **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)
- **Output Voltage Range** 8 ~ 35 V_{DC}
- **Normal Output Current** 0.5 A (per channel)

Protection

- **Isolation Between Channels and Backplane** 2,500 V_{DC}
- **Short Circuit Protection**
- **Thermal Shutdown Protection**

Environment

- **Operating Temperature** 0 ~ 60° C
- **Storage Temperature** -25 ~ 75° 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
- **APAX-5343E** Power Supply for APAX Expansion Module

Specifications

General

- **Dimensions (W x H x D)** 30 x 139 x 100 mm
- **Weight** 195 g
- **Power Consumption** 2 W @ 24 V_{DC} (typical)
- **Status Display** LED per channel
On: Logic level 1
Off: Logic level 0

Relay Output

- **Channels** 12
- **Relay Type** Form A (SPST)
- **Switching Capacity and Lifetime of the Contact (For Resistive Load)**
VDE: 30,000 operations (5 A @ 250 V_{AC}, 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)
- **Breakdown Voltage** 500 V_{AC} (50/60 Hz)
- **Contact Resistance** 30 mΩ (maximum)
- **Insulation Resistance** 1 GΩ (minimum) at 500 V_{DC}

Protection

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

Environment

- **Operating Temperature** 0 ~ 60° C
- **Storage Temperature** -25 ~ 75° C
- **Relative Humidity** 5 ~ 95% (non-condensing)

Ordering Information

- **APAX-5060** 12-ch Relay Output Module
- **APAX-5001** 1-slot Backplane Module
- **APAX-5002** 2-slot Backplane Module
- **APAX-5343E** Power Supply for APAX Expansion Module

Specifications

General

- **Dimensions (W x H x D)** 30 x 139 x 100 mm
- **Weight** 170 g
- **Power Consumption** 2.5 W @ 24 V_{DC} (typical)
- **Status Display** LED per channel (for DI, DO channel)
On: Logic level 1
Off: Logic level 0

Counter/Frequency Input

- **Channels** 8 (Up Pulse, Frequency)
4 (Pulse and Direction, Up/Down Pulse, A/B Phase)
- **Counting Range** 32-bit + 1-bit overflow
- **Minimum Pulse Width** 1 μs
- **Counter Frequency** 1 MHz (max)
- **Input Voltage** For "0" signal: 0 ~ 3 V_{DC}
For "1" signal: 10 ~ 30 V_{DC}

Digital Input

- **Channels** 4
- **Type** Sink (Wet contact)
- **Input Voltage** For "0" signal: 0 ~ 3 V_{DC}
For "1" signal: 10 ~ 30 V_{DC}

Digital Output

- **Channels** 4 (Sink Type)
- **Output Voltage Range** 8 ~ 35 V_{DC}
- **Normal Output Current** 0.5 A (per channel)

Protection

- **Isolation Between Channels and Backplane** 2,500 V_{DC}
- **Short Circuit Protection (For DO channel)**
- **Thermal Shutdown Protection (For DO channel)**

Environment

- **Operating Temperature** 0 ~ 60° C
- **Storage Temperature** -25 ~ 75° C
- **Relative Humidity** 5 ~ 95% (non condensing)

Ordering Information

- **APAX-5080** 4-ch High Speed Counter Module
- **APAX-5001** 1-slot Backplane Module
- **APAX-5002** 2-slot Backplane Module
- **APAX-5343E** Power Supply for APAX Expansion Module