# **BAS-3018 BAS-3024**

## 8-ch UI Expansion Module

## 4-ch UI, 4-ch AO, 4-ch DO Expansion Module



## **Features**

- 24 V<sub>DC</sub> or 24 V<sub>AC</sub> input
- Universal input supports 0 ~ 10 V, 0 ~ 20 mA, 4 ~ 20 mA, RTD, Thermistor (3K, 10K), and digital input
- Analog output supports  $0 \sim 10 \text{ V}$ ,  $0 \sim 20 \text{ mA}$ , and  $4 \sim 20 \text{ mA}$  (BAS-3024 only)
- Supports PWM output (BAS-3024 only)

# Introduction

BAS-3018/BAS-3024 expansion I/O modules can be stacked on the DDC controller, or can serve as remote standalone I/O modules through an RS-485 network. These expansion I/O modules add both scalability and flexibility to Advantech BAS-3000 solutions. Like the DDC, I/O expansion modules can be programmed using the BASPro programming tool.

# **Specifications**

#### General

■ **Dimension (W x H x D)** 120 x 120 x 44 mm (4.72" x 4.72" x 1.73")

Enclosure ABS + PC
 Power Input 24 V<sub>DC</sub>/24 V<sub>AC</sub>

■ **Power Consumption** 3 W @ 24 V<sub>DC</sub> (BAS-3018)/4 W @ 24 V<sub>DC</sub> (BAS-3024)

Watchdog Timer

Yes

Communication
 Local Bus (Connect to BAS-3520/3512/3520C)

RS-485 (Standalone as Remote IO Device)

## **Universal Input**

• Channels 8 (BAS-3018)/4 (BAS-3024)

Resolution 16-bitSample Rate 10 Hz (Total)

Accuracy ±0.1% of FSR (Voltage, Current)

• Type and Range Analog Input:  $0 \sim 10 \text{ V}$ ,  $0 \sim 20 \text{ mA}$ ,  $4 \sim 20 \text{ mA}$ ,

Pt-100/1000, RTD, Thermistor (3 k, 10 k) Digital Input Logic High: Close

(Dry Contact) Logic Low: Open

■ Over Voltage Protection ±35 V

## Analog Output (BAS-3024 only)

Channels 4
 Resolution 12-bit
 Accuracy ± 0.1% of FSR

■ Range 0 ~ 10 V, 0 ~ 20 mA, 4 ~ 20 mA

### Digital Output (BAS-3024 only)

• Channels 4 (Source Type)

■ Vcc 10 ~ 35 V<sub>DC</sub>, Current: 1 A (per channel)

PWM Output (2 channels)

Minimum Period 1 second (for PWM output)
Minimum Pulse Width 0.1 second (for PWM output)

#### **Protection**

■ Isolation Voltage 3,000 V<sub>DC</sub>

#### **Environment**

Operating Temperature -10 ~ 60° C (14 ~ 140° F)
 Storage Temperature -20 ~ 80° C (-4 ~ 176° F)
 Operating Humidity 20 ~ 95% (Non-condensing)
 Storage Humidity 0 ~ 95% (Non-condensing)

# **Ordering Information**

**BAS-3018-AE** 8-ch UI Expansion Module

**BAS-3024-AE** 4-ch UI, 4-ch AO, 4-ch DO Expansion Module