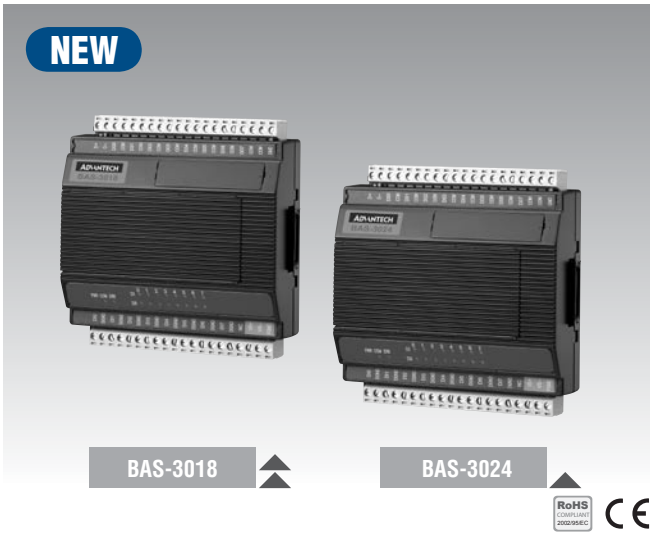
BAS-3018
BAS-3024

8-ch UI Expansion Module

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



Features

- Acts as local I/O or remote I/O
- Universal input supports 0 ~ 10 V, 0 ~ 20 mA, 4 ~ 20 mA, RTD, Thermistor (3K, 10K), and digital input (Dry contact)
- Analog output supports 0 ~ 10 V, 0 ~ 20 mA, and 4 ~ 20 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

- **Power Input** 24 V_{DC}/24 V_{AC}
- **Power Consumption** 3 W @ 24 V_{DC} (BAS-3018) / 4 W @ 24 V_{DC} (BAS-3024)

Universal Input

- **Channels** 8 (BAS-3018) / 4 (BAS-3024)
- **Resolution** 16-bit
- **Sample Rate** 10 Hz (Total)
- **Accuracy** ±0.1% of FSR (Voltage, Current)
- **Type and Range** Analog Input: 0 ~ 10 V, 0 ~ 20 mA, 4 ~ 20 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_{DC}, Current: 1 A (per channel)
- **Minimum Period** 1 second (for PWM output)
- **Minimum Pulse Width** 0.1 second (for PWM output)

Protection

- **Isolation Voltage** 3000 V_{DC}

Ordering Information

- **BAS-3018** 8-ch UI Expansion Module
- **BAS-3024** 4-ch UI, 4-ch AO, 4-ch DO Expansion Module

Common Specifications

General

- **Dimension (W x H x D)** 120 x 120 x 44 m
- **Enclosure** ABS + PC
- **Watchdog Timer** Yes
- **Operating Mode** 1. Connect to BAS-3520/3512 (Powered by BAS-3520/3512)
  2. Standalone as remote I/O devices (Need external power 24 V_{DC})
- **Communication** Local Bus (Connect to BAS-3520/3512)
  RS-485 (Standalone as remote I/O devices)

Environment

- **Operating Temperature** -10 ~ 60° C
- **Storage Temperature** -20 ~ 80° C
- **Operating Humidity** 20 ~ 95% (Non-condensing)
- **Storage Humidity** 0 ~ 95% (Non-condensing)