

# BAS-3050 BAS-3051

8-ch DI, 8-ch DO Expansion Module

16-ch DI Expansion Module



RoHS  
Compliant  
2002/95/EC

CE FCC

## Features

- 24 V<sub>DC</sub> or 24 V<sub>AC</sub> input
- 3000 V<sub>DC</sub> isolation protection
- Supports 1 kHz counter input and 1 kHz frequency input (2 channels)
- Supports PWM output (2 channels) (BAS-3050 only)
- Supports Modbus /RTU Protocol

## Introduction

BAS-3050/BAS-3051 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

- **Dimensions (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>
- **Watchdog Timer** Yes
- **Communication** Local Bus (Connect to BAS-3520/3512/3520C)  
RS-485 (Standalone as Remote IO Device)
- **Supported Protocols** Modbus/RTU

### Digital Input

- **Channels** 8 (BAS-3050)/16 (BAS-3051)
- **Dry Contact** Logic High Close  
Logic Low Open  
Support 1 kHz Counter Input (2 channels)  
Support 1 kHz Frequency Input (2 channels)

### Digital Output (BAS-3050 only)

- **Channels** 8 (Source Type)
- **V<sub>CC</sub>** 10 ~ 35 V<sub>DC</sub>, Current: 1 A (per channel)
- **Supports 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 ~ 17°F)
- **Operating Humidity** 20 ~ 95% (Non-condensing)
- **Storage Humidity** 0 ~ 95% (Non-condensing)

## Ordering Information

- **BAS-3050-AE** 8-ch DI, 8-ch DO Expansion Module
- **BAS-3051-AE** 16-ch DI Expansion Module