

## Bravelink™ BBAS-1 Antenna Supervision Option Card

### Description

The Bravelink™ BBAS-1 Antenna Supervision Option Card is a component of the Bravelink™ Bidirectional Amplifier (BDA) Monitoring system. It provides supervision of the antenna wiring to a maximum of 125 life-safety antennas that are part of the building's Distributed Antenna System (DAS).

### Features

The Bravelink™ BBAS-1 provides an addressable loop that is electrically combined with the RF signals delivered to each DAS antenna in the building. The signal passes through all coaxial wiring and signal-splitting devices and thus, all passive devices are also monitored for integrity.

**Note:** The addressable loop is coupled with the coax cable signals via a Dual DC Voltage Injector (P/N DC-A29).

Antenna supervision status, along with location information, is reported to the BBCPU-1 and displayed on the Bravelink system's BGGUI-1 Graphic User Interface(s). This alerts emergency responders of areas in the building that could be lacking appropriate coverage, possibly inhibiting radio communication capabilities. It also helps technicians quickly identify and resolve individual antenna wiring issues.

The Bravelink™ BBAS-1 option card provides:

- ◆ Supervision of up to 125 DAS antennas
- ◆ Monitors all passive coaxial interconnect devices for integrity
- ◆ Diagnostic LEDs
- ◆ Convenient DIN-Rail Mounting

**Note:** One (1) Bravelink™ BBAS-1 option card is required/supported on the Bravelink™ system.



### Mounting and Installation

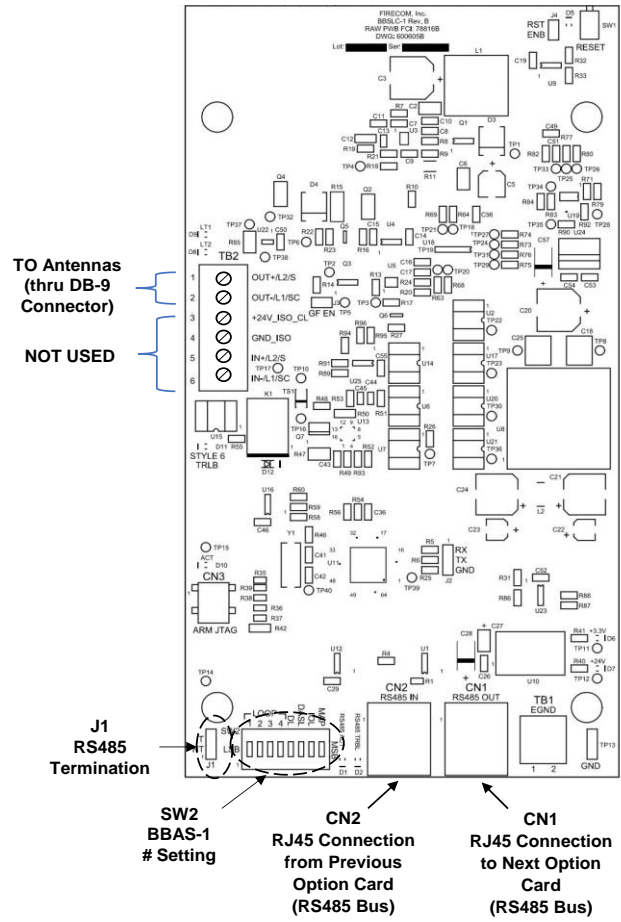
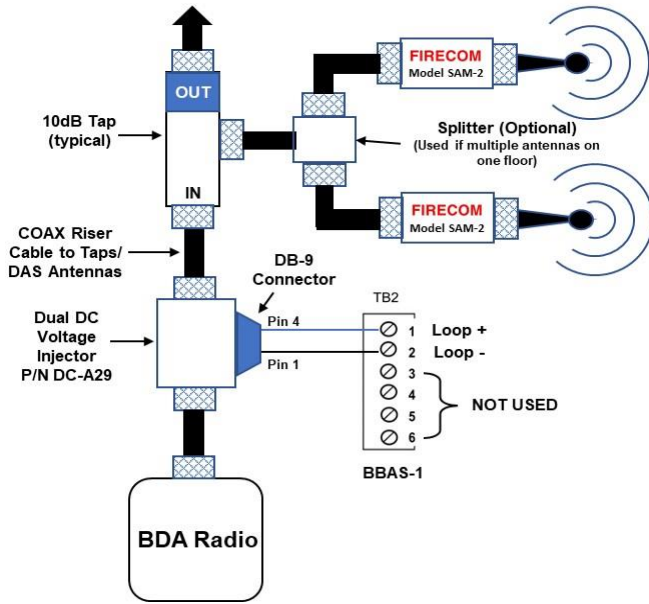
The Bravelink™ BBAS-1 clips onto a standard DIN mounting rail along with the CPU and other Bravelink™ option cards, installed within a NEMA-4/UL50E enclosure.

The Bravelink™ BBAS-1 connects to the Bravelink™ BBCPU-1 and other option cards using short CAT-6 cables with RJ-45 connectors on each end (included). All connections are supervised for integrity.

A Dual DC Voltage Injector (P/N DC-A29) is installed between the BDA radio, the addressable loop of the Bravelink™ BBAS-1, and the coax connected to the antennas.

Each antenna must be connected to a Bravelink™ SAM-2 Supervised Antenna Module. This module must be programmed with the antenna's address.

The signaling between the Bravelink™ BBAS-1 and the supervised life-safety antennas must pass properly through the passive coaxial radio distribution wiring and splitting devices. A fault in any of the intermediary devices or pathways results in one or more antenna communication troubles to be detected.



### Electrical Specifications

|                                  |             |
|----------------------------------|-------------|
| Operating Voltage:               | 24V         |
| Operating Current:               | 80mA        |
| Antenna Circuit Max Current:     | 250mA       |
| Antenna Circuit Max Capacitance: | 1uF         |
| Antenna Circuit Max Resistance:  | 25 Ohms     |
| Operating Temperature:           | 0°C to 49°C |
| Operating Relative Humidity      | 0% to 93% @ |
| Range:                           | 32°C        |

### Ordering Information

| Model No. | Part No. | Description       |
|-----------|----------|-------------------|
| BBAS-1    | 79185    | Relay Option Card |

See Installation Guide P/N 79790 for wiring and setup details.

### Approvals and Listings



(File no. pending)

It is our intention to keep product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact FIRECOM, INC

