FIRECOM™

Technology Protecting Life ®

BDA Buddy™

SAM-2

Supervised Antenna Module

Features

- Adds Supervision Functions To Standard Antennas, Creating a Supervised Life Safety Antenna
- Facilitates the Integrity Monitoring of All Coaxial Infrastructure and Passive Devices
- Addressable by BBAS-1
- Polling Status LED

Description

The SAM-2 Supervised Antenna Module is an intelligent addressable device that it supervised by a BDA Buddy BBAS-1 Antenna Supervision Module. The BBAS-1 provides a Signaling Line Circuit that is electrically combined with the radio frequency signals delivered to each antenna in a building's Distributed Antenna System. Up to 125 SAM-2 devices can be monitored by a single BBAS-1. The SLC communication signal passes through all coaxial wiring and signal splitting equipment and thus also monitors all passive equipment for integrity. Antenna supervision status is monitored by the BBAS-1, reported to the BBCPU-1 and is displayed on the BBGUI-1 Graphical User Interface. This allows location information pertaining to antennas that have failed to be presented to Firefighter personnel so that they can assess locations in the building that could be lacking appropriate RF coverage, possibly inhibiting communication capabilities of wireless radio devices.

Application

Use of the SAM-2 with a standard antenna creates a Supervised Life Safety Antenna. The BBAS-1 Antenna Supervision Module creates an signaling line circuit that is combined with radio frequency information on an in-building distributed antenna system's coaxial wiring. The BBAS-1 communicates with the SAM-2 based Supervised Life Safety Antennas that make up the DAS within a building via the passive coaxial radio distribution equipment and wiring.

Approvals and Listings

Underwriters Laboratories (File No. PENDING)

FIRECOM ™ , INC.
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Woodside, NY 11377
718.899.6100 TEL
718.899.1932 FAX

QAS INTERNATIONAL ISO 9001:2015 REGISTERED COMPANY

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Engineering Specifications

The SAM-2 shall be permanently attached to a conventional antenna.

Up to 125 SAM-2 based Supervised Life Safety Antennas may be configured to be supervised by a BBAS-1 Antenna Supervision Module.

The signaling between the BBAS-1 and the SAM-2 based 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 shall result in one or more antenna communication troubles to be detected. Proper communication to the SAM-2 shall be indicated by a flash of its status indicator.

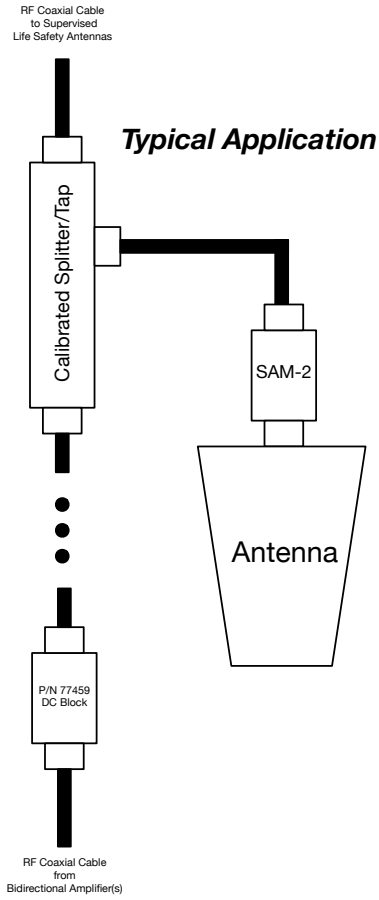
Antenna communication trouble conditions shall be reported to the BBCPU-1 and displayed upon the BBGUI-1 Graphical User Interface.

Installation

Permanently affix the SAM-2 to its antenna.

Ensure that the SLC connections of a BBAS-1 is wired to a Firecom 77459 RF DC Block/Injector, which must be wired in series with the in-building DAS coaxial wiring.

Use signal splitting and tapping devices that have been approved by Firecom to ensure proper signal passage.



Electrical Specifications

Operating Voltage	24V Nominal
Operating Current	1mA Average
Frequency Range	100MHz-1000MHz
VSWR	2:1
Attenuation	0.8db Max
Impedance	50 Ohm
Connector RF	N Female
Connector Antenna	N Male
Operating Temperature	0°C to 49°C
Operating Relative Humidity Range	0% to 93% @ 32°C
Dimensions	1.25x1.25x3.56 in
Weight	0.35 lb

Ordering Information

Model No.	Part No.	Description
SAM-2	78776	Supervised Antenna Module

It is our intention to keep the 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.

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