

## Axis<sup>AX</sup>

### Distributed Audio Booster AV-VB

The AV-VB distributed audio booster is designed to be a self-contained remote audio amplifier capable of providing message/tone generation and rebroadcasting of any 25 Vrms signal. Used in conjunction with an emergency communications system (Axis<sup>AX</sup> Series audio system or AV-VBM audio panel) the AV-VB provides increased digital audio signaling during an emergency situation (alarm, alerts, warnings, mass notification, etc.) to meet total system wattage requirements via true distributed audio methodology.

The AV-VB distributed audio booster message/tone generation and booster operation can be controlled either via an Axis<sup>AX</sup> fire alarm control panel's PerfectSync protocol or from the activation of one of three (3) prioritized relay trigger inputs.

When controlled via the Axis<sup>AX</sup> PerfectSync protocol, the AV-VB audio amplifier can store and broadcast up to sixteen prioritized individual messages/tones. In addition, the Axis<sup>AX</sup> fire alarm control panel can support a total of sixteen AV-VB distributed audio boosters. These sixteen AV-VB distributed audio boosters, each with their own sixteen audio amplifier messages/tones, can be perfectly synchronized via the Axis<sup>AX</sup> fire alarm control panel. PerfectSync is also completely compatible with the Advanced AD-NeT-PluS 200 node network, providing perfectly synchronized A/V devices across the entire network without the need for any special programming, additional wires or additional modules. In total, network wide, that equates to 800 horn/strobe notification appliance circuits and 3200 networked distributed audio amplifiers, each with their own individual message/tone generators, broadcasting throughout a facility in perfect synchronization.

If controlled by one of the three (3) prioritized relay trigger inputs, two of the relay trigger inputs can be assigned to two separate/individual messages (such as; one input could generate an evacuate message/tone and the other input could generate an alert message/tone) input three is always allocated/assigned as booster mode activation for microphone input rebroadcasting.

The functionality of selecting different prioritized messages, based on specific events, makes the AV-VB distributed audio booster ideal for numerous emergency notification applications. Pre-programmed alarm, evacuation, alerts, warnings and other types of messages, including those required for Mass Notification are extremely easy to implement.



#### Unique Features:

- PerfectSync Axis<sup>AX</sup> Fire Alarm Panel Compatibility
- Advanced Digital Audio Technology
- Dual 40 Watt @ 25 Vrms Amplifiers
- 16-Channel Digital Message/Tone Generator
- Unique Amplifier Booster Option
- High Fidelity Sound Quality

#### Features

- Class A or B Audio Notification Appliance Circuit Wiring
- External AC Power and Trouble LEDs
- Internal Service Diagnostic and Status Indicators
- USB Port Interface for Message/Tone Programming
- Programmable one-to-one Amplifier Backup with Test
- Network or Hardwire Controlled with Priorities
- Axis<sup>AX</sup> Fire Alarm Panel Powerful CBE Logic Programming
- Optional AV-ZS Audio Zone Splitter Module

#### Listings and Approvals:

- ETL ANSI/UL 864/1711/1481 Listed: 101564744NYM-001, 100027836NYM-001c
- CSFM Approved: 7165-1713:0101
- NYCFD COA #6105

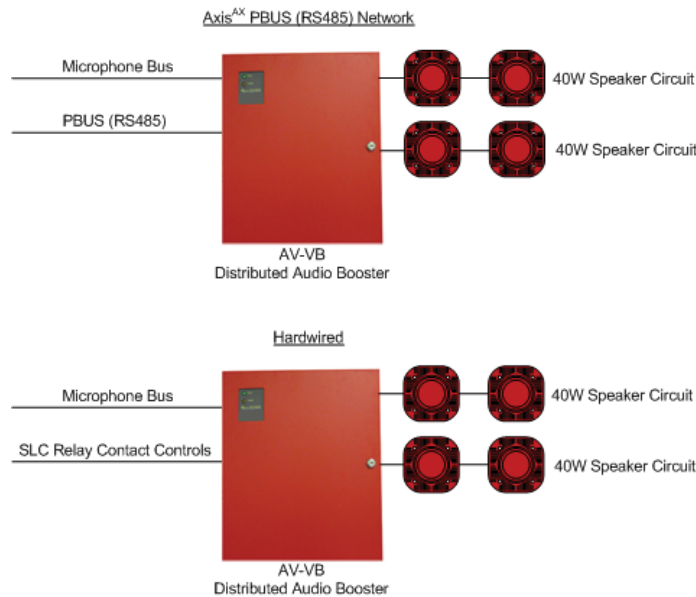
Each AV-VB distributed audio booster incorporates an audio amplifier (AV-AMP-80) containing; two dual 40 Watt amplifiers configured Class A or Class B, a 16 digital message/tone generator, supervision circuitry, a power supply/charger (AX-PSU-6) and an enclosure. A green AC power LED and yellow trouble LED are provided on the front of the enclosure. Additional internal PCB LEDs are provided for detailed service diagnostics as well as amplifier status.

The flash based, digital message/tone generator of the AV-VB provides for sixteen individual field programmable messages that can be tailored to meet any specific installation requirement. Digital messages/tones are programmed in a simple/user-friendly Windows based tool. The users can select from a library of industry recognized messages/

tones. Selection options include; leading and trailing tones, male or female voice messages, message category (such as; evacuation, alert, warnings, etc.) and message priorities. In addition, wave files may be downloaded and added to the library to allow complete customization of messages/tones.

In support of installations requiring strict survivability, where a specification mandates that if a primary amplifier fails, a backup amplifier is required to take over so that critical life safety messages/tones can be delivered to personnel without interruption, the AV-VB distributed audio booster can be configured for one-to-one 40 Watt amplifier backup. In addition, when configured for such operation, the AV-VB audio amplifier has a built in physical test feature to confirm proper backup amplifier operation.

## AV-VB Network & Hardwired Wiring



| AV-VB Audio System Specifications |  |
|-----------------------------------|--|
| Operating Voltage                 |  |
| Input                             | 120 VAC  |
| Output                            | 24 VDC & 25 Vrms                               |
| Operating Current                 |  |
| Quiescent                         | 40 mA (typical)                                |
| Alarm                             | 200 mA (plus total speaker circuit load)       |
| Output Ratings                    | 2x 40 Watts @ 25 Vrms, Class A or B            |
| LED Indicators                    | AC Power & System Trouble                      |
| Operating Temperature             | 32° -120° F (0 to 48° C)                       |
| Humidity                          | 10-95% (non-condensing)                        |
| Enclosure Dimension               | 16"W x 19 <sup>1</sup> / <sub>8</sub> "H x 5"D |
| Weight                            | 19lb 5oz                                       |

| Ordering Information |   |
|----------------------|---|
| AV-VB                | Distributed Audio Booster                             |
| Optional Modules:    |   |
| AV-ZS                | Audio Zone Splitter Module                            |
| AV-V70               | Universal Audio Converter (converts 25Vrms to 70Vrms) |

**As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.**



Advanced Fire Systems Inc  
100 South Street, Hopkinton, MA 01748

**Tel:** (508) 435-9995  
**Fax:** (508) 435-9990  
**Email:** usa@advancedco.com  
**Web:** www.advancedco.com