

Product Data Sheet





מגבר כריזה עצמאי

Distributed Audio Booster AV-VB

The AV-VB, Distributed Audio Booster, is designed to be used in conjunction with an Axis^{AX} "V" Series, Axis^{AX} Command Center Intelligent Fire Alarm Control Panel or a AV-VBM Audio Panel to provide 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, consists of an audio amplifier (AV-AMP-80) containing; two (2) dual 40 Watt amplifiers configured Class A or Class B, a 16 digital message/tone generator and 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 sixteen (16) programmable, flash based, digital message/tone generator of the AV-VB is completely field programmable for tailoring to meet specific installation requirements. Digital messages/tones are programmed in a simple/user-friendly Windows® based tool. The Windows® based programming tool allows users to 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. Used in conjunction with the Windows® based programming tool, the Axis^{AX} Series PC-NeT field configuration programming tool with its powerful control-by-event programming, greatly simplifies and drastically reduces the time it takes to program very large complex applications (see figure 1).

In support of some local requirements, the AV-VB may be set to a "backup mode" whereby as a precaution, should the primary amplifier fail, the secondary amplifier automatically will engage and override the primary amplifier, provided there are no short circuits in the field speaker circuit wiring.

Specifically designed for project flexibility, each AV-VB can be setup to produce its own messages or it can be operated in a unique "booster" mode. Booster mode allows the AV-VB amplifier to simply re-amplify a signal generated from another amplifier/audio signal source [i.e. Axis^{AX} "V" Series, Axis^{AX} Command Center Intelligent Fire Alarm Control Panel and/or AV-VBM Audio Panel] (see Figure 2).



Unique Features:

- Interfaces with any Axis^{AX} "V" Series and/or Axis^{AX} Command Center Fire Alarm Control Panel
- · Advanced Digital Audio Technology
- Dual 40 Watt @ 25 Vrms Amplifiers
- 16-Channel Digital Message/Tone Generator
- Unique Amplifier Booster/Cascading Option
- High Fidelity Sound Quality

Features

- Two (2) Class A or B Speaker Circuits
- External AC Power and Trouble LEDs
- · Internal Service Diagnostic and Status Indicators
- USB Port Interface for Message/Tone Programming
- Simple User-Friendly Message/Tone Programming
- Optional one-to-one Amplifier Backup Capability
- Three Prioritized Relay Trigger Inputs
- Axis^{AX} "V" Series Controlled via PBUS or Relay Inputs
- Axis^{AX} "V" Series Powerful CBE Logic Programming

Listings and Approvals:

- ETL ANSI/UL 864/1711/1481 Listed: 100027836NYM-001c
- CSFM Approved: 7165-1713:0101
- NYCFD COA #6080

AV-VB, Distributed Audio Booster, message/tone generation or booster operation can be controlled either via the Axis^{AX} "V" Series or Axis^{AX} Command Center Intelligent Fire Alarm Control Panel's PBUS (RS-485 network) serial communications bus (contact AFSI regarding correct software version), or from the activation of one of three (3) prioritized relay trigger inputs. When controlled via the PBUS (RS-485 network) serial communications bus (contact AFSI regarding correct software version), one of sixteen messages/ tones stored in the AV-VB amplifier can be selected for broadcasting. 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 (see figure 3). The functionality of selecting different prioritized

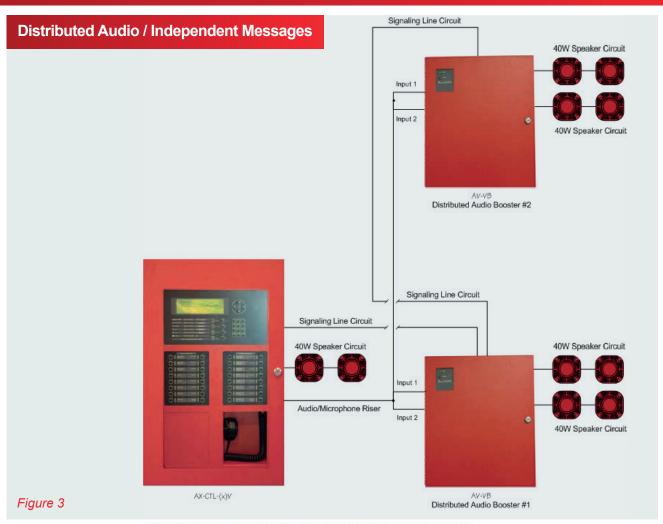
messages, based on specific events, makes the AV-VB ideal for numerous emergency notification applications. Pre-programmed alarm, evacuation, alerts, warnings and other types of messages, including those required for Mass Notification are extremely easy to implement.

In booster mode operation, message/live audio from an Axis^{AX} "V" Series, Axis^{AX} Command Center or AV-VBM Audio Panel is reamplified and the identical message is rebroadcast out each AV-VB, resulting in a distributed audio system.

Simplistic Message/Tone Programming NewFile1 - AV-AMP Move Up 💲 🗶 Leading Tone 53 Seconds mt60_chime.wav Panel 1 43 Seconds mt60_chime.wav CEM3377.wav MT120chime.wav 3 rounds of slow whoop, way CEF5000.way] 🗀 H 🗓 🖨 🖟 🕼 🖟 🖫 S S Q % 53 MxP-538 Switch/LED Module (Address 26) Site List • Voice FACP On-Board User Interface Peripheral Bus Figure 1

Distributed Audio / Booster Mode (Synchronized Audio) Signaling Line Circuit 40W Speaker Circuit 40W Speaker Circuit Input 2 Signal is identical to Audio/Microphone Riser output from AX-CTL-(x)V AV-VB Distributed Audio Booster #2 Signaling Line Circuit Signaling Line Circuit 40W Speaker Circuit 40W Speaker Circuit Input 1 Audio/Microphone Riser 40W Speaker Circuit Input 2 Signal is identical to Audio/Microphone Riser output from AX-CTL-(x)V AV-VB Distributed Audio Booster #1 AX-CTL-(x)V Figure 2

^{*} Trigger input three is activated (via addressable relay module) for live voice communications and message/tone synchronization.



* Trigger input three is activated (via addressable relay module) for live voice communications
Trigger input one or two is activated (via addressable relay module) to broadcast different messages in different locations (non-synchroniz

AV-VB Audio Syster	n Specifications
Operating Voltage Input Output	120 VAC 24 VDC & 25 Vrms
Operating Current Quiescent Alarm	40 mA (typical) 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 ¹ / ₈ "H x 5"D
Weight	19lb 5oz

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

Note: Consult factory for compatible $\mathsf{Axis}^\mathsf{AX}$ software for PBUS (RS-485 network) communications.



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