Axis AX — Distributed Audio Booster

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 AX 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 AX 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 AX PerfectSync protocol, the AV-VB audio amplifier can store and broadcast up to sixteen prioritized individual messages/tones. In addition, the Axis AX 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 AX 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.

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.

Features

- PerfectSync Axis AX 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
- Axis AX Fire Alarm Panel Powerful CBE Logic Programming

Listings and Approvals

- ETL ANSI/UL 864/1711/1481 Listed: 101564744NYM-001, 100027836NYM-001c
- CSFM Approved: 7165-1713:0101
- NYCFD COA #6105A2

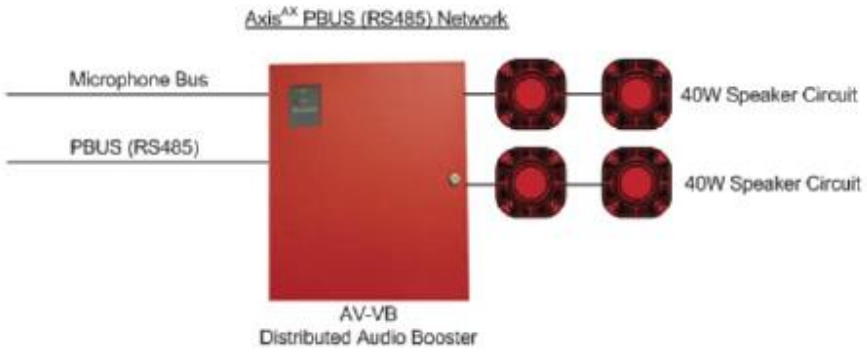
The flash based, digital message/tone generator of the AV-VB provides for sixteen individual field programmable messages that can be tailored to meet any specific installation requirement. Digital messages/tones are programmed in a simple/user-friendly Windows based tool. The users can select from a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

Specification

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 º F -120 º F (0 º C to 48 º C)
Humidity	10-95% (Non-condensing)
Enclosure Dimension	16” W x 19 1/ 8 ” H x 5” D
Weight	19lb 5oz

Wiring Diagram



Order Codes and Options

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

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