

Centralized Banked Amplifiers

Overview

EST3 supports centralized (banked) amplifier configurations for Mass Notification/Emergency Communication (MNEC), life safety, and emergency signaling.

Model 3-ZA20 Zoned Amplifiers at the EST3 control panel provide a channel source(s) for banked amplifiers. The 3-ZA20 amplifiers can select any one (at a time) of the EST3 eight audio channels as a signal source. Examples include; page, alert and evacuation. Standby Amplifier(s) are an option.

Special interface modules, the 3-ATPINT, or MN-ABPM panel-mount, accept analog audio signals @ 25 or 70 Vrms from EST3's zoned amplifiers and passes these signals to the 1B3-125 and 1B3-250 audio power amplifiers via an Amplifier Terminal Panel (ATP). The 3-ATPINT can pass supervised audio signals to other ATPINTs within a local amplifier bank or to other remote banks of amplifiers. The 3-ATPINT mounts on the ATP.

The ATP Audio Terminal Panel interfaces one or two audio power amplifiers and monitors utility power, charges and supervises standby batteries, and provides switch-over to standby. Audio risers connect at this panel. It also has an integral trouble signal and silence switch.

The EST3 System monitors and controls the amplifier bank through Signature series modules such as the SIGA-CT1 or 2 input modules and the SIGA-CR control relay. MR-201/C or MN-204/C relays provide DPDT contacts for switching power amplifier risers when a system has standby amplifiers.

SIGA-CC1 (Single Channel) or CC2 (Dual Channel) output control modules command and supervise each audio circuit or zone. The SIGA-RM1 Riser Monitor Module provides audio riser supervision.

Standard Features

- **Large Supervised Amplifiers [1B3-250 & 1B3-125]**
 - 250 or 125 Watt amplifiers
 - broad frequency response and low distortion
 - thermal and electronic protection
- **Amplifier Terminal Panel [ATP]**
 - supports two audio power amplifiers
 - charges and supervises up to 40 AH batteries
 - standard 19 inch rack mounting
 - Terminal Panel Interface Module [3-ATPINT]
 - supports connection to EST3 Zoned Amplifiers
- **Supported by System Definition Utility**
 - fast rules based programming
- **Part of an end-to-end 520 Hz signaling solution**
 - UL approved for use in sleeping rooms
- **Uses the 3-ASU & 3-ASU/FT Audio Source Units**
 - site-recordable or downloadable messages
 - live paging
 - hierarchical operation of eight distinct digital audio channels
- **Uses the ZA20 amplifier as a source**
 - Class A or B connection
 - Supports Multiple PreAmps
 - Optional Standby PreAmps
 - 25 Vrms or 70 Vrms interface
 - drives multiple 3-ATPINTs in same rack

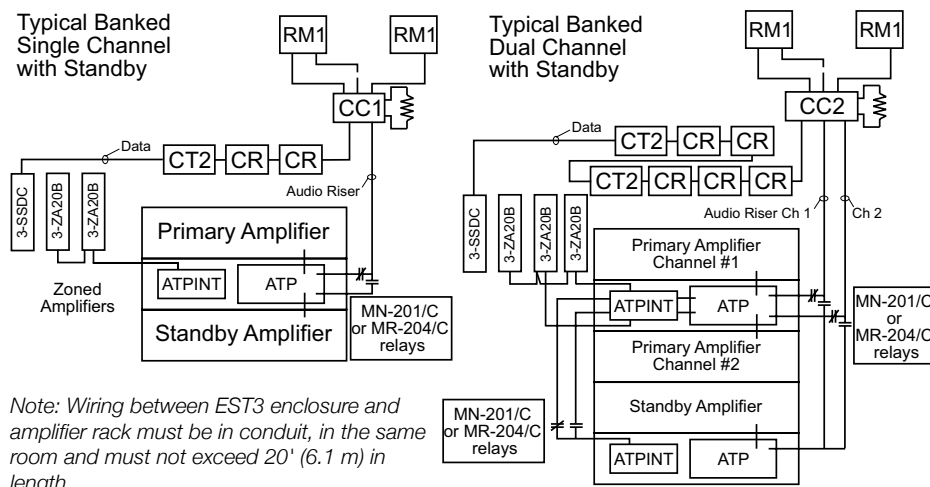
Application

Life Safety Audio provides Emergency Response Personnel with a means to control building evacuation using voice instructions.

Banked Amplifiers provide EST3 with economy audio configurations for Single and some Dual channel applications.

Typical Configuration

Block Wiring Layout



Typical System Components

Data Sheets are available for the following components.

3-ASU/FT	Audio Source Unit with Fire Phone
3-ASU	Audio Source Unit
3-ATPINT	Audio Terminal Panel Interface
ATP	Audio Terminal Panel
ATP-220	Audio Terminal Panel 220 Vac
1B3-250	250 Watt Power Amplifier
1B3-125	125 Watt Power Amplifier
SIGA-CT1	Single Circuit Input Module
SIGA-CT2	Dual Circuit Input Module
SIGA-RM1	Riser Monitor Module
SIGA-CR	Control Relay
SIGA-MP1	Module Mounting Plate, eight spaces
SIGA-MP2	Module Mounting Plate, four spaces
ARM-8	Relay Module /w one relay, space for eight total
MR-201/C	Relay for ARM-8 (single DPDT)
MR-204/C	Relay for ARM-8 (four-position DPDT)
RKU-42	Standard 19 inch Rack Mounting Cabinet, 42 inch
RKU-61	Standard 19 inch Rack Mounting Cabinet, 61.25 inch
RKU-70	Standard 19 inch Rack Mounting Cabinet, 70 inch
RKU-77	Standard 19 inch Rack Mounting Cabinet, 77 inch
VP-1	Vented Panel, 1.75 inch
VP-3	Vented Panel, 3.5 inch
BP-1	Blank Panel, 1.75 inch
BP-2	Blank Panel, 3.5 inch
BP-3	Blank Panel, 5.25 inch
MFC	Module Fire Cabinet