

PRODUCT AND APPLICATIONS BULLETIN

FILE: Section 5 [Applications]

PRODUCTS: AudiaFLEX - Audia® Digital Audio Platform
Networked Paging Station-1 - Mic/Control Console
MCA8050 - Multi-Channel Amplifier

APPLICATION: Hospital networked paging system, with routing, priority, and lock-out.

REQUIREMENTS:

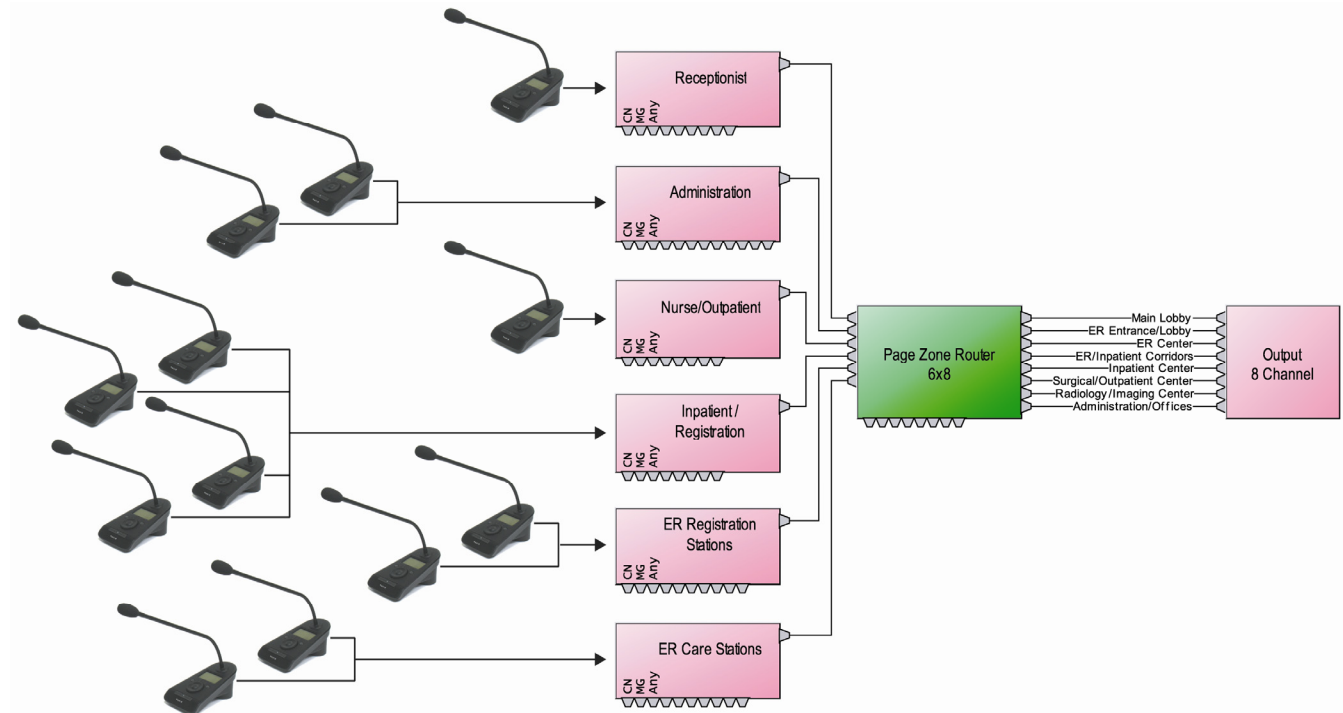
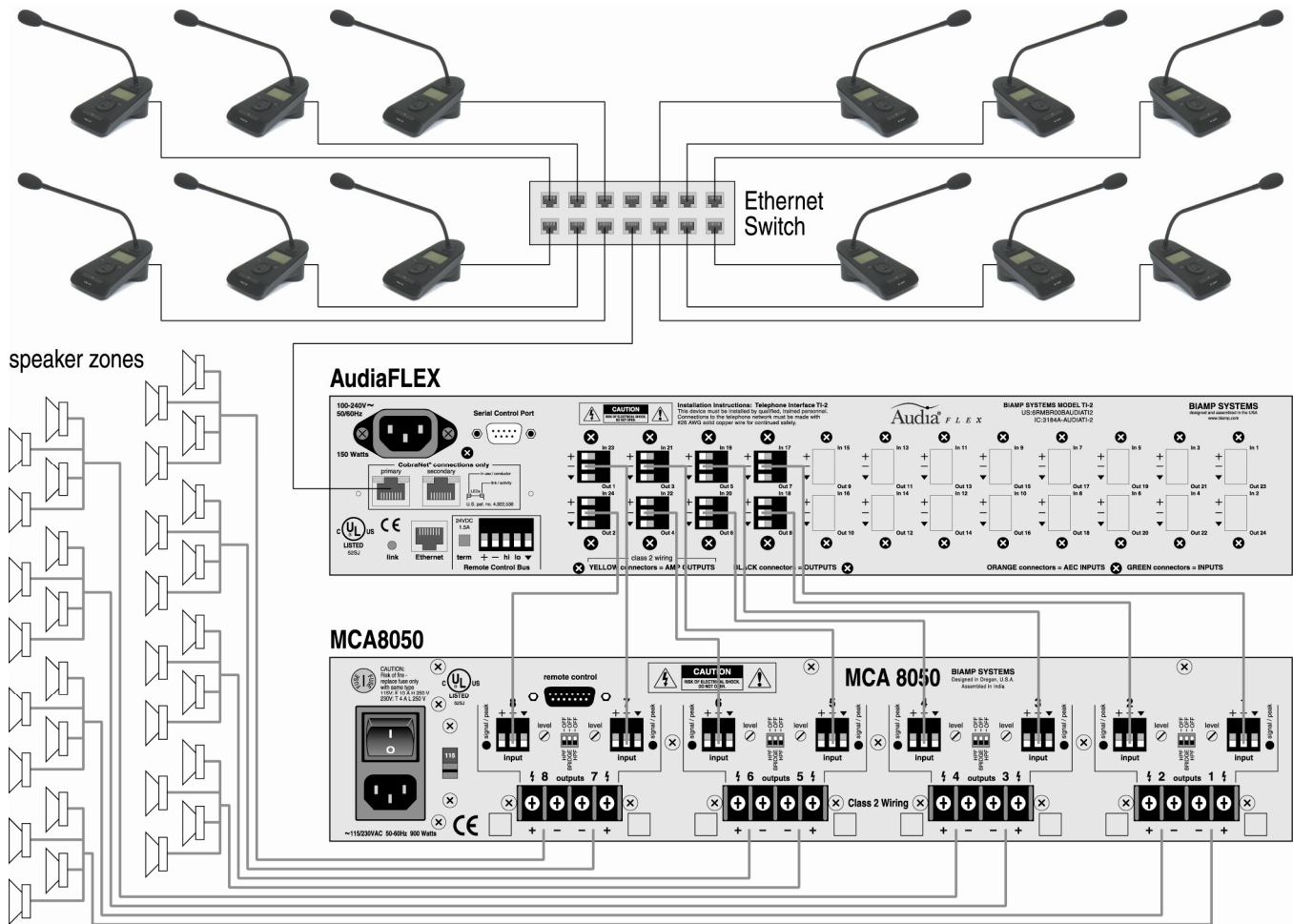
- Twelve paging stations, assigned to six unique routing/priority schemes
- Eight paging zones, each with a distributed ceiling speaker system
- Pre-announcement chimes, assignable to identify origins of paging

PRODUCT OVERVIEW:

AudiaFLEX is an expanded version of Audia, the benchmark in digital audio systems. AudiaFLEX provides the same easy-to-use software and functional algorithms, but with greater flexibility in the choice of I/O configurations. Inputs and outputs may be specified by pairs, in any combination, up to a total of 24. All possible I/O configurations are available with or without CobraNet®, for networked or stand-alone applications. Intuitive design software allows easy selection, viewing, and calibration of numerous audio components: mixers, combiners, matrixes, equalizers, filters, crossovers, dynamics, routers, delays, remote controls, meters, generators, diagnostics, etc.

Networked Paging Station-1 is a microphone console using a single cable to carry audio, control, and power, with an innovative user-interface, designed exclusively for use with AudiaFLEX systems. It provides a powerful and easy-to-use set of tools with a wide range of features and functions for the paging market. Networked Paging Station-1 is ideal for stadiums, convention centers, shopping malls, and other facilities where affordable and reliable delivery of clear audio is paramount. Networked Paging Station-1 integrates with AudiaFLEX networks via CobraNet®. Utilizing the Networked Paging Station-1 LCD display, scroll-wheel, and three buttons, users can quickly switch between pre-programmed groups and zones to address even the most complex page routing network.

MCA8050 is a multi-channel amplifier, providing eight outputs of 50 watts each into 4 ohms. Channels may be bridged in pairs for higher combined wattage. Connections are provided for remote control of channel levels & muting. Internal transformers are available for 25/70/100V speaker systems.



APPLICATION EXAMPLE:

This application shows AudiaFLEX and Networked Paging Station-1 being used for hospital paging. Equipment includes: an AudiaFLEX CM with four OP-2e cards (8 outputs); twelve Networked Paging Station-1 units, and an MCA8050 amplifier with TDT50 distribution transformers installed. A system diagram and the design layout file for this application are shown on the facing page.

Paging Locations: 1-Receptionist Station; 2-Hospital Administration Stations; 1-Nurse/Outpatient Station; 4-Inpatient/Registration Stations; 2-ER Registration Stations; 2-ER Care Stations.

Paging Zones: Main Lobby; ER Entrance/Lobby; ER Center; ER/Inpatient Corridors; Inpatient Center; Surgical/Outpatient Center; Radiology/Imaging Center; Administration/Offices.

System Rules:

- The Receptionist shall handle general, low priority building pages, not related to treatment. They shall have access to all available zones at minimum priority except the ER.
- The Hospital Administrator shall have medium priority page ability to all zones individually. And a high priority All-Call for emergency purposes only.
- Nurse/Outpatient and Inpatient/Registration station shall have medium priority paging to all care related zones only, with a lower priority page into the ER for patient emergencies.
- The ER Registration stations shall have a higher priority to all care related zones, in case of emergency and the ER Lobby zone.
- The ER Care Stations shall have a slightly higher priority than the Registration stations in case of a patient emergency, and all zones will be available to this station.

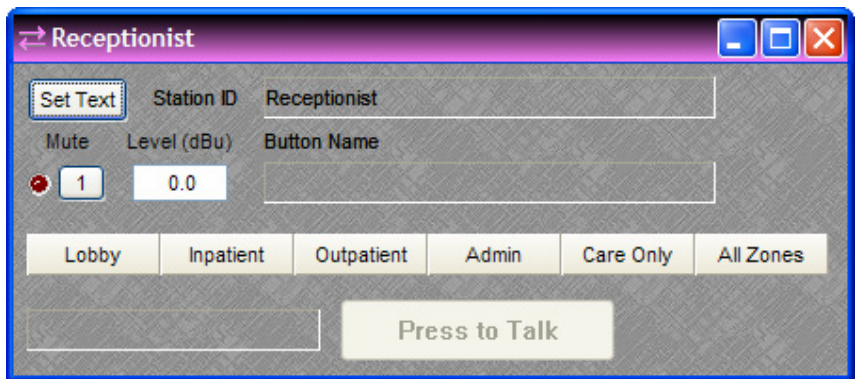
Multiple stations can be assigned to the same block, reducing programming time and overall DSP usage. Each station's buttons are then assigned to their appropriate zones with corresponding priority. Minimal programming is required if rules change. With the various chime options available, different paging stations may be assigned different chimes to audibly cue people where the page is coming from.

The Networked Paging Station has its own unique input block within software (see back page). Each Paging Station block can have up to 32 "buttons". A button is what the user will select via the Networked Paging Station's interface to page into a set of zones. Any number of Networked Paging Stations may correspond to a particular Paging Station block. All Network Paging Stations assigned to a particular NPS block will receive identical buttons. NPS-1 blocks tie to another block: the Page Zone Router. The Page Zone Router is where the Paging Station block's buttons are assigned to zone outputs.

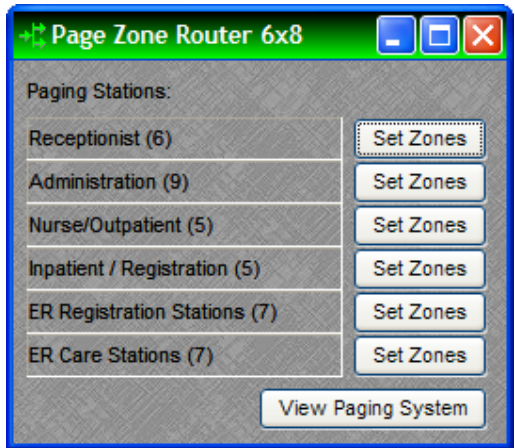
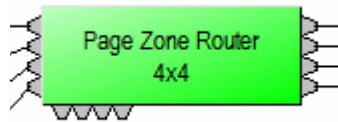
Within the Page Zone Router, there are two ways of viewing/assigning buttons to zones. The first is the "Set Zones" button which will allow you to assign each Paging Station's button's to any combination of zones. For any zone assigned to a button you may assign its own level of priority and unique chime. There are 16 levels of priority and 16 unique chimes available. The second way of viewing the system is by clicking "View Paging System". This displays a complete table of all button-to-zone assignments.

Within the Paging System table, you can sort the view by Paging Station, Button, Zone, or Priority. Also within the table, you can change button to zone assignments, adjust priority levels, and change chimes for the entire Page Zone Router.

Networked Paging Station-1
block and dialog



Page Zone Router
block and dialog



Set Zones
and
View
Paging
System
dialogs

