

PRESENTED AT INFOCOMM 2006

TOA

Most Innovative Audio Product For Commercial Use (Excluding Loudspeakers)

TOA 9000 SERIES

TOA's 9000 Series digital matrix mixer/amplifiers were awarded Most Innovative Audio Product For Commercial Use (Excluding Loudspeakers) at the AV Awards Banquet held June 6, 2006 at InfoComm 2006 in Orlando, FL.

"We are very honored to be recognized with this award," remarked Steve Mate, director of marketing. "The 9000 Series makes it easy for contractors to use digital signal processing in both simple and sophisticated projects."

PRODUCT OVERVIEW

TOA's 9000 Series digital matrix mixer/amplifiers redefine the conventional by combining a modular matrix mixer, dual-channel digital signal processor (DSP), and single or dual-channel power amplifier in a compact, two-rack space package. Ideal for a wide range of multi-zone paging, music distribution, and room-combining applications, the 9000 series is extremely versatile and provides outstanding sound quality with 24-bit, 48 kHz A/D and D/A sampling and 0.0008 percent amplifier distortion.

Each 9000 Series mainframe has a modular eight-by-eight matrix mixer for flexible input to output routing. A multi-function display allows fast and easy programming directly from the front panel without requir-



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FEATURES

The 9000 Series module lineup includes the D-001T dual channel mic/line input module, T-001T dual channel line output module, ZP-001T telephone access zone paging module, AN-001T ambient noise control module, and the C-001T con-

trol expansion module. Each model also includes an RS-232 port for connection to external devices.

Additionally, the 9000 Series features include a mixer out/power amp in patching loops, key lock security, password-protected locks for front panel controls, input/output level metering and fader position, and separate access to the mainframe's mixer output and power amplifier input for connection to an ex-

ternal processor or switching device. All input and output channel signal levels, peak indication, and fader position can be monitored via the front panel display. Each mainframe has an integral two-channel digital signal processor (DSP) with a variety of audio processing tools, including 10-band parametric EQ, high and low pass filters, compressor, delay, and TOA speaker EQ presets.

Available Outputs

Each 9000 Series mainframe has two built-in outputs, each specific

to its applications. The one-power amplifiers with one balanced line output models, the A-9060S (1 x 60W at 25/70V, 4/8 ohms), A-9120S (1 x 120W at 25/70V, 4/8 ohms), and the A-9240SH (1 x 240W at 70V) differ from the two power amplifier models, the A-9060DH (2 x 60W at 70V), A-9120DH (2 x 120W at 70V), and A-9120DL (2 x 120W at 4-16 ohms). The M-9000 mixer has two balanced line outputs. Contractors can easily address different speaker load requirements with the 9000 Series flexible output power feature, which allows up to 50 percent of one amplifier channel to be allocated to the second channel. No configuration is required as the speaker load determines the power output.

Remote Terminals

Each mainframe includes two remote volume control ports which are compatible with 10k ohm linear potentiometer, VCA (0-10 VDC) or optional ZM-9001/ZM-9002 remote panels. Each port is assignable to control any input or output channel.

Also included are four programmable switch buttons for scene/event memory recall or input/output volume control.

Two Diverse Modes

To accommodate both simple and complex project requirements, the 9000 Series includes two distinct operation modes: mixer and

matrix. The primary differences between the two modes are the definition of memories and the method of input-to-output signal routing.

Mixer mode is suitable for speech and sound reinforcement applications in hotel meeting rooms, churches, and conference rooms, and provides auto-mixing and basic paging functions. Users can store configurations up to 32 scenes that can be activated via front panel, switch closure, RS-232, or optional remote panels. For basic paging systems, mixer mode supports up to four zones and two levels of paging priority. One input must be designated as the paging input with the highest priority. One or more inputs can be assigned as lower priority for override when the paging function is activated. Outputs can be selectively disabled from a programmed paging zone with contact closures.

Matrix mode is ideal for more complex multi-zone paging applications, providing multi-event signal distribution, eight-level ducker, and multiple input priority modes. An eight-level ducker allows each input to be assigned a priority level and an adjustable mute depth is provided to allow for unobtrusive lowering of background music during paging. Multiple input priority modes determine the priority order when multiple inputs with the same priority level are broadcast simultaneously.

Telephone Zone Paging

The optional ZP-001T zone paging module supports telephone system DTMF dialing to access up to eight zones (amplifier and/or line outputs). Users can dial up to eight output zones in one operation. The module is compatible with analog extension or page ports. Page port operation requires contact closure activation.

Ambient Noise Control

Using the optional AN-001T ambient noise control module and AN-9001 sense microphone, individual amplifier or line output levels can be automatically increased or reduced in response to changes in ambient noise level. Each 9000 Series mainframe can provide ambient noise control for up to four zones using two AN-001T modules and four AN-9001 microphones.