AUDIO MATRIX SWITCHES

TS-AMS8V2 & TS-AMS16

TRIAD AUDIO MATRIX SWITCHES

The Triad 8×8 and 16×16 Audio Matrix Switches deliver high-resolution audio throughout the home with an all-new powerful DSP and OvrC compatiblity. Featuring a speaker-level EQ and a room-level EQ, these switches deliver precise sound in any space. Connect sources with stereo RCA, digital coax, or digital optical and use the stereo RCA outputs to deliver audio to multi-channel power amplifiers or AVRs. Available in 8x8 and 16x16 models with a compact 1U/2U design, these switches give you excellent features and customization options. Additionally, the custom DSP engine paired with the improved 2.1 zone grouping feature allows for a full range of sound that delivers subtle details and exceptionally clear audio. And the added input and output audio delay make for a perfectly synchronized video performance. These Matrix Switches have OvrC support to provide additional functions when an OVRC Pro host device is present in the system, signal sensing on all inputs, and SDDP for easy Control4 integration.

FEATURES

- Share up to 8 (or 16) audio sources to as many as 8 (or 16) audio zones for multi-room audio distribution
- Triad's revamped high-resolution DSP (Digital Signal Processing) engine is engineered to allow finer adjustments to deliver the best sound.
- Each zone has two parametric EQs—one for speaker-level EQ and one for room-level EQ, ensuring the best possible sound in every room.
- High signal-to-noise ratio delivers dynamic, high-resolution audio to every room in the house
- All audio inputs support resolutions up to 192 kHz/24 bit
- Independent output controls adjust volume, bass, treble, six-band parametric EQ, balance, loudness, and monosumming
- Independent input gain control for each source for consistent levels when switching between sources
- Two output zones can be grouped into a single 2.1 (stereo speakers + subwoofer) audio zone
- 12V trigger outputs enable simple on/off control of Triad power amplifiers or other devices that support 12V power-on capabilities
- Audio sensing supports programmable events based on the presence of audio
- Ethernet control
- Includes pre-installed rack-mount ears
- Built-in EQ presets for Triad speakers

TRIAD AUDIO MATRIX **SWITCHES**

SPECIFICATIONS

AUDIO SPECIFICATIONS	**TS-AMS8V2 & TS-AMS16**
THD	<0.005%, 20 Hz – 20 kHz
SNR	>105 dB, A-weighted—input to output
Frequency response	20 Hz – 20 kHz +/- 0.2 dB
Volume control per channel	+0 to -100 dB range
Mute	Available on all outputs
Source input gain	0.5 dB steps, -12 dB to +12 dB on every input
Monosumming	Configurable per stereo output pair, each output combines the L/R input signal
Six-band parametric EQ	Adjustable per stereo output, +/- 12 dB, 0.1 dB steps
2.1 Audio Zone (Each subwoofer output is enabled on the even output and paired with adjacent odd numbered output)	Subwoofer volume offset- +/-12dB, 0.5 dB steps Crossover type- selectable Linkwitz-Riley / Butterworth Crossover slope- selectable 12/24/48 dB Crossover frequency- 20-300Hz, 1 dB steps Output select- Stereo / Mono
Supported sample rates	44.1 kHz, 48 kHz, 96 kHz, 192 kHz—at 16- or 24-bit resolution
Analog input voltage	2V
Analog output voltage	2V
Audio Delay	0-80 ms
Output Delay	0-80 ms
Tone Control	Low shelf (bass) adjustable per stereo output 20-2000 Hz, +/- 12 dB, 0.1 dB steps High shelf (treble) adjustable per stereo output 20-20000 Hz, +/- 12 dB, 0.1 dB steps

POWER	**TS-AMS8V2**	**TS-AMS16**
AC mains power	AMS8-V2: AC 100-240V, 50/60 Hz, 10W	AMS16: AC 100-240V, 50/60 Hz, 20W

THERMAL	**TS-AMS8V2**	**TS-AMS16**
Operating temperature	0 °C ~ 50 °C (32 °F ~ 122 °F)	0 °C ~ 50 °C (32 °F ~ 122 °F)
Thermal dissipation (heat losses)	1.1W / 3.75 BTU/hour (standby) 8W / 27.7 BTU/hour (max)	1.34W / 4.6 BTU/hour (standby) 15W / 52.0 BTU/hour (max)
Humidity	5% to 95% non-condensing	5% to 95% non-condensing
Storage	-20 °C ~ 70 °C (-4 °F ~ 158 °F)	-20 °C ~ 70 °C (-4°F ~ 158 °F)

CONNECTIONS	**TS-AMS8V2**	**TS-AMS16**
Source inputs (Digital inputs are either coax or optical and are stereo PCM only)	8 × stereo analog (RCA) 4 × digital coax 4 × digital optical Inputs 5-8 are either analog or digital	16 × stereo analog (RCA) 8 × digital coax 8 × digital optical Inputs 9-16 are either analog or digital
Zone outputs	8 × stereo analog (RCA)	16 × stereo analog (RCA)
12V trigger outputs	1 × mono 3.5 mm (1/8″) output 1 x mono 3.5 mm (1/8″) assignable output	2 × mono 3.5 mm (1/8″) outputs 1 x mono 3.5 mm (1/8″) assignable output

DIMENSIONS	**TS-AMS8V2**	**TS-AMS16**
Dimensions without feet (H×W×D)	4.4 × 44.5 × 26.4 cm (1.75 × 17.5 × 10.38″)	8.9 × 44.5 × 26.4 cm (3.5 × 17.5 × 10.38″)
Dimensions with feet (H×W×D)	5.4 × 44.5 × 26.4 cm (2.13 × 17.5 × 10.38″)	9.8 × 44.5 × 26.4 cm (3.88 × 17.5 × 10.38″)

201-00715-A
2021-06-22 PG

TRIAD®