



Accessories









AD-16x Audio Matrix Switch

Ideal for large, multi-zone audio installations, the AD-16x provides routing for 16 audio sources to 16 zones. For added convenience, the AD-16x also features eight remote source inputs, which allows devices located in other rooms to be used as a global source. If the system grows past 16 zones, up to four AD-16x units can be cascaded for up to 64 output zones. The switch also delivers complete audio management, including parametric equalizing, zone grouping, and balance control - all configurable via a convenient web interface. For amplification, use the RTI CP-16i Cool Power® amplifier to drive crystal-clear audio to every speaker.

Setting the AD-16x apart is the engineering that enables this matrix to become an extension of the RTI ecosystem. At the heart of this powerful integration is the AD64 two-way driver running on an RTI XP processor, providing integrators with unmatched flexibility and programming efficiency.

Key Features

- Provides routing of 16 stereo audio sources to 16 zones.
- Eight remote source inputs allow devices located in other rooms to be used as a global source using the RSP-1 accessory.
- RSO-1 digital to analog converter (sold separately) provides audio input for digital audio sources.
- Up to four AD-16x units may be source-looped, for up to 64 output zones.*
- Custom project labeling allows integrators to name all of the zones and sources for more efficient programming (via AD64 driver).
- Dynamic audio source management tracks the sources that are active, allowing users to select a different one and avoid inadvertent music changes (via AD64 driver).
- Preamp outputs require external amplification via RTI or third-party audio amplifier.
- Eight bands of parametric audio equalizing in all zones.
- Built-in web interface allows zones to be configured and grouped, allowing multiple outputs to be controlled as a single zone.
- Audio input trim adjustment on each source.

Included in the Box

AD-16x, power cord, rack ears (2) with screws, feet with screws (4)

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Specifications

AC Input Voltage
Power switch
Mounting Rack mount or free standing
Dimensions16.9" (430mm) x 5.3" (133mm) x 14.5" (369mm) (WxHxD)
Weight
Operating Temperature+32°F to +122°F (0°C to +50°C)
Operating Humidity 5% to 95% Non-Condensing
Heat Output
Output ZonesSixteen zones of stereo L/R, 16 RCA jack pairs(switchable between fixed or variable)
Audio Source Inputs (Local)Sixteen, 16 RCA jack pairs
Audio Source Inputs (Remote) Eight, RJ-45 jacks
Loop OutputsSixteen, 16 RCA jack pairs
Control Input (CTRL IN)One, 3.5mm jack, compatible withindustry standard IR repeaters and receivers
Control Output (CTRL OUT)One, 3.5mm jack, compatible withindustry standard IR repeaters and receivers
Remote Source IR Inputs
Mute InputOne, 3.5mm jackPhone Input Sensitivity: AC25V-AC100V 20HzDoorbell Sensitivity: AC/DC 3-12VDC
Trigger Output (Status Jack)One, 12VDC, 15mA max
+12VDC Voltage Output One, 12VDC, 500mA max
Serial (RS-232) Port One, Bi-directional DB9
Ethernet Port One, 10/100Base-T, RJ45 Connection
Unit ID Numbers1-8, Set using 3 switches
Total Harmonic Distortion<0.03%



S/N Rating	.92dB (@ mute +1) , 100dB(@ mute)
Frequency Response	20Hz ~ 20KHz +/- 0.5 dB
Input Overload	2.1V
Input Impedance	22K ohms
Channel Separation @1KHz	>60dB
Crosstalk Between Sources	>90dB
Crosstalk Between Zones	90dB
Treble Control @10KHz	8.5dB +/- 0.5 dB
Bass Control Range @100H	z8.5dB +/- 0.5 dB
	32Hz, 64Hz, 256Hz, 512Hz, . 1024Hz, 2048Hz, 4096Hz, 16380Hz
Warranty	Three Years (Parts & Labor)

All Specifications subject to change without notice.

*NOTE: Up to eight AD-16x units may be used to reach 128 output zones using Infrared control. There is a limit of four AD-16x units when the AD64 two-way driver is used, for a maximum of 64 output zones.

Do more with Integration Designer 11

Integration Designer 11 elevates the experience for all RTI systems, from residential to commercial. Its stunning new template - complete with custom slider support, one-click background swapping and more - makes it faster than ever to deliver a beautiful finish to every installation. Drivers are directly accessible from within the software, with notifications to keep you always up to date. The integrated system manager lets you track rooms, room status, and source status to save time on every installation. All this and more in Integration Designer 11.

