Wherever you go - let the music move with you.

Ideal for large, multi-zone audio installations, the AD-16x provides routing for 16 audio sources to 16 zones, while RTI’s Cool Power® amplifier CP-16i drives crystal clear audio to every speaker. 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.

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. The driver features custom project labeling, allowing integrators to name all of the zones and sources, eliminating tedious programming by ID number. Pushing the user experience to new levels, the driver also allows dynamic audio source management, which tracks the active sources. This allows a user to determine if a source is already in use and select a different one to avoid an inadvertent music change.

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.
Specifications

- **AC Input Voltage**: 100VAC - 240VAC, 50–60Hz Switching Power Supply, 20W
- **Power Switch**: Front Panel On/Off with LED
- **Mounting**: Rack mount or free standing
- **Dimensions (W x H x D)**: 16.9” (430mm) x 5.3” (133mm) x 14.5” (369mm)
- **Weight**: 14.5lb (6.6kg)
- **Operating Temperature**: 32°F - 104°F (0°C – 40°C)
- **Operating Humidity**: 5% to 95% Non-Condensing
- **Heat Output**: 68 BTU/hr
- **Output Zones**: Sixteen zones of stereo L/R
- **Audio Source Inputs (Local)**: Sixteen, 16 RCA jack pairs
- **Audio Source Inputs (Remote)**: Eight, RJ-45 jacks
- **Loop Outputs**: Sixteen, 16 RCA jack pairs
- **Control Input (CTRL IN)**: One, 3.5mm jack
- **Control Output (CTRL OUT)**: One, 3.5mm jack
- **Remote Source IR Inputs**: Eight discrete, One universal (All)
- **Mute Input**: Phone Input Sensitivity: AC25V-AC100V 20Hz
- **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 Numbers**: 1-8, 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 @100Hz**: 8.5dB +/- 0.5 dB
- **Equalizer Bands (8)**: 32Hz, 64Hz, 125Hz, 250Hz, 500Hz, 1KHz, 2KHz, 4KHz
- **Warranty**: One Year (parts & labor)

*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.*