

### Overview

The Quad Audio Wall Balun (500033-WP-US) allows up to four (4) analog line audio signals to be transmitted via unshielded twisted pair (UTP) cable in a point-to-point connection.

Used in pairs, the Quad Audio Wall Balun allows up to four (4) coax audio cables to be replaced by one (1) Cat5e/6 cable. The Quad Audio Balun also works in conjunction with other MuxLab analog audio baluns such as the 500019.

### Applications

Custom commercial and home audio systems, intercom systems, rental and staging systems, audio-video conferencing systems.



### Features & Benefits

- Cost-efficient cabling – save up to four (4) cables
- 20 Hz to 20 KHz bandwidth for high fidelity
- Analog audio up to 3,250 ft (1.0 km) via Cat5e/6
- Compact design for neater wiring
- Compatible with Decora™ face plates

Specifications	
<b>Environment</b>	Unbalanced line-level analog audio.
<b>Devices</b>	DVD players, audio receivers, audio amplifiers and audio mixers, audio matrix switchers and other unbalanced line-level audio equipment.
<b>Transmission</b>	Transparent to the user
<b>Bandwidth</b>	20 Hz to 20 kHz
<b>Peripherals' Impedance</b>	Source 100 $\Omega$ Mx, Receiver 10 k $\Omega$ min.
<b>Insertion Loss</b>	Less than 2 dB per pair over the frequency range
<b>Common Mode Rejection Ratio</b>	Greater than 60 dB at 1 kHz
<b>THD</b>	Less than 0.007% @ 1 kHz
<b>Maximum Input Level</b>	1.1 Vp-p
<b>Impedance Transformation Ratio</b>	Single unit: 4:1 (source: line)
<b>Cable: Cat 5E UTP/STP</b>	24 AWG or lower solid copper twisted pair wire Impedance: 100 ohms at 1 MHz Maximum capacitance: 20 pf/ft Attenuation: 6.6 dB/1,000 ft at 1 MHz
<b>Unbalanced In/ Out Cable</b>	Shielded, coaxial
<b>Ground Loop Isolation</b>	Range of +/-50VDC
<b>Connectors</b>	Four (4) RCA receptacles for audio, one (1) RJ45 jack
<b>Pin Configuration</b>	Audio 1: Pins 7(R) & 8(T) Audio 2: Pins 3(R) & 6(T) Audio 3: Pins 4(R) & 5(T) Audio 4: Pins 1(R) & 2(T)
<b>Max. Distance: Cat 5E/6 UTP/STP</b>	3250 ft (1 km)
<b>Temperature</b>	Operating: 0° to 55°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing
<b>Enclosure</b>	Fire retardant plastic
<b>Weight</b>	4.1 oz (115 g)
<b>Dimensions</b>	4.1" (104 mm) x 1.8" (45.7 mm) x 1.44" (36.6 mm). Choose 1.6" (40 mm) deep back box to allow for Cat 5E/6 wiring connection.
<b>Warranty</b>	Lifetime
<b>Order Information</b>	500033-WP-US Quad Audio Wall Plate Balun, US

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**Typical Application**

