

### Overview

The VideoEase Quad Audio Balun 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 Balun allows up to four (4) coax audio cables to be replaced by one (1) Cat5 cable. The Quad Audio Balun also works in conjunction with other MuxLab analog audio baluns such as the 500019.



### Applications

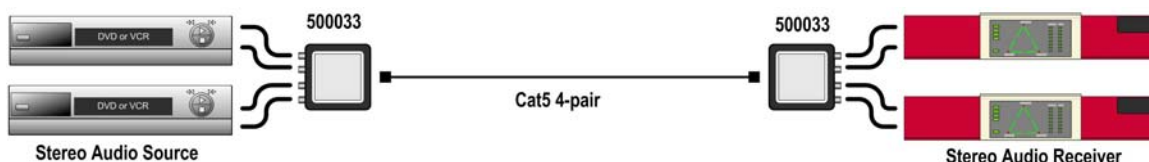
Custom commercial and home audio systems, intercom systems, rental and staging systems, audio-video conferencing systems.

### Features & Benefits

Cost-efficient cabling – save up to four (4) cables  
Analog audio up to 5,000 ft (1.5 km) via Cat 5  
Compact design for neater wiring

Specifications	
Environment	Unbalanced line-level analog audio.
Devices	DVD players, audio receivers, audio amplifiers and audio mixers, audio matrix switchers and other unbalanced line-level audio equipment.
Transmission	Transparent to the user.
Bandwidth (3dB roll-off point) (400 $\Omega$ source & 50 k $\Omega$ receiver)	Up to 1,000 ft (305m): 60Hz - 20 kHz 1,000 ft (305m) to 5,000 ft (1.5 km): 100Hz - 20 kHz
Maximum Input Level	1.1Vp-p (+20 dBu, unbalanced < 1% THD)
Insertion Loss per Balun Pair	Less than 1 dB per pair over the frequency range
Common Mode Rejection (CMMR)	Greater than 60 dB @ 1 kHz
Audio Source Impedance	100 to 600 $\Omega$
Audio Receiver Impedance	10 k $\Omega$ to 100 k $\Omega$
Impedance Transformation Ratio	Single unit: 4:1 (source: line)
Cable – UTP	24 gauge or lower solid copper twisted pair wire impedance: 100 ohms at 1 MHz. Maximum capacitance: 20 pf/foot. Attenuation: 6.6 dB/1000 ft at 1 MHz
Cable - Coax	75-ohm coaxial cable
Connectors	Four (4) RCA-receptacle for audio. One (1) RJ45 jack
Pin Configuration	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)
Impedance	Video: 75 ohms (RCA) unbalanced.
Temperature	Operating: 0° to 55° C. Storage:-20° to 85° C. Humidity: up to 95%
Enclosure	Fire retardant plastic
Dimensions	2.40" x 2.25" x 1.00" (6.1 x 5.7 x 2.54 cm)
Warranty	Lifetime
Order Information	500033      VideoEase Quad Audio Balun

### Typical Application



### MuxLab Inc.

8114 Trans Canada Hwy, Ville St. Laurent, Quebec, H4S 1M5  
Tel: (514) 905 0588 Fax: (514) 905 0589  
Toll Free: 1 877 689-5228  
E-mail: [videoease@muxlab.com](mailto:videoease@muxlab.com)  
URL: [www.muxlab.com](http://www.muxlab.com)