

Composite Video/Stereo Hi-Fi Audio Balun Extender

Operating Instructions

Overview

The Composite Video/Stereo Hi-Fi Audio Balun (LM-CVHFB) allows one composite video, one stereo audio to be transmitted via a single Cat5e /6 cable in a point-to-point connection. The Composite Video/Stereo Hi-Fi Audio Balun features full audio bandwidth response for high fidelity applications. The Composite Video/Stereo Hi-Fi Audio Balun works in pairs, some of the applications are classroom video distribution, commercial and home audio/video systems, hospital video training, videoconferencing, and video kiosks

Applications

classroom video distribution, commercial and home audio/video systems, hospital video training, video conferencing, and video kiosks

Features & Benefits

Video up to 2,200 feet (670m) via Cat5e/6

Audio up to 3,250 ft (1km) via Cat5e/6

20 Hz to 20 kHz audio bandwidth

Cost-efficient cabling

Quicker moves, adds and changes

Quick Setup Guide:

Plug the RCA connectors of the transmit Balun into the Video and Audio outputs of the source component you wish to transmit. Plug the Video and Audio connectors from the receive Balun into your desired input component. Insert the CAT5 cable into both ends of the Baluns. You may use standard EIA 568A/B termination.

Typical Application



Specifications:

Environment	Composite video (NTSC, PAL, SECAM). Line level analog audio.	
Devices	DVD players, VCR, satellite receivers, MPEG players, laptops, notebooks, monitors, DLP projectors, CCD cameras, video switchers, sequencers, digital video servers, video multiplexers, video splitters, video converters and other composite video equipment.	
Transmission	Transparent to the user.	
	Composite video	audio
Bandwidth	Video: 60 MHz, 3 dB roll off	20 Hz to 20 KHz over the distance range

Maximum Input	1.1Vp-p	1.1Vp-p
Impedance	75 ohms	600 ohms min
Insertion Loss	Less than 2 dB per pair over the frequency range from DC to 6 MHz	Less than 2 dB per pair over the frequency range
Return Loss	Better than 15 dB over the frequency range	Better than 15 dB over the frequency range
Common Mode Rejection Ratio	Greater than 40 dB over the frequency range	Greater than 40 dB over the frequency range
Max. Distance Color via Cat 5E/6 UTP/STP Cable	2,200 ft (670 m)	3,250 ft (1,000 m)
Pin Configuration (RJ45)	Video: Pins 4(R) &5(T)	Audio 1: Pins 1(R) & 2(T) Audio 2: Pins 7(R) & 8(T)
Cable: Cat 5E/6 UTP/STP	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	
Connectors	Three RCA-F connectors: Video (yellow) & stereo audio (red, white) One RJ45 for Cat 5E/6	
Temperature	Operating: 0° to 55°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing	
Enclosure	Aluminum alloy	
Dimensions(packaging)	155mm*80mm*30mm (including one pair of Balun)	
Weight(packaging)	260g	

NOTE: Baluns are interchangeable for transmit or receive functions.