

Specifications

Environment	Digital Audio
Standard Supported	LPCM, Dolby Digital® 5.1, DTS, and Dolby® True HD
Input / Output signal	S/PDIF coax cable or TOSLINK optic cable, input selectable.
Sampling rate	Up to 96kHz/24bits
Maximum distance between unit	500 ft. (150m)
Connectors	RCA, TOSLINK, POWER, RJ45 on each unit.
Power requirement	1W max, 5V DC
S/PDIF spec	Coax 75 ohm with RCA connector, level: 500mVp-p into 75 ohm
TOSLINK spec	Plastic optic cable with EIAJ/JEITA RC-5720C connector, Wavelength: red 660nm, level: -15dBm max.
Cabling Requirement (not supplied)	Any 4-pair straight cable CAT5/5E/6 with RJ-45 connector. Coax and second Optic Cable.
Included in this kit	1 x TX unit, 1 x RX unit, 1 x 5V Power supply, 1 x Optic Cable 3ft (1m) and 1 x Installation guide.
RJ45 Pin Configuration	Pair 4+5 (data), 1+2+7(+5V), 3+6+8(0V)
Compatible mounting hardware	500902, 500900, 500910, 500915
Temperature	Operating: -40° to 85°C (-40° to 185°F) Storage: -40° to 85°C (-40° to 185°F)
Humidity	Maximum 95% (non-condensing)
Enclosure	ABS UL94HB fire retardant plastic
Dimensions	2.25" x 2.25" x 1.0" (6 x 6 x 2.5 cm) each box.
Shipping Weight	1 lb. (450g)
Warranty	2 Years
Order Information	500086 Digital Audio Extender



DIGITAL AUDIO EXTENDER KIT 500086

Quick Installation Guide

Overview

The Digital Audio Extender allows one (1) source of digital audio signal: coax (S/PDIF) or optic (TOSLINK) to be connected to a receiver: coax or optic to up to 500 ft. (150m) in a point-to-point configuration. The Extender supports most standards to transmit two channels of uncompressed lossless PCM audio or compressed 5.1/7.1 surround sound, such as Dolby Digital Plus or DTS-HD High Resolution Audio (multichannel digital audio Dolby Digital® 5.1, DTS, and Dolby® True HD).

Applications

Transmission of Digital Audio Signal



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Installation

One source unit can be connected to one receiver unit using a CAT5/6 cable. To install the unit, perform the following steps:

Caution: Do not attempt to open the housing. There are no user-serviceable parts inside the unit. Opening the unit will void your warranty.

Do not connect the unit to a telecommunication outlet wired to unrelated equipment. Making such a connection may damage the equipment and/or the unit. Verify that the desired twisted pairs are not being used for other LAN or telephone equipment.

1. Use a dedicated 4-pair Cat5e/6 cable between the source and the receiver unit.
2. Patch panels are compatible.
3. Verify the wiring is “straight-through”, has 4 twisted pairs and has the standard Ethernet RJ45 connector.
4. Connect the 5V power supply to one side only. Any side can be used.
5. Connect the unit to the audio source, either by coax source or optic. On the source side, select which type of input is used. Both sides can be connected but only one is used to transmit audio. At the receiver side both outputs will contain the same signal. Note that some AV system may require that you connect only one signal.

Troubleshooting

The following tables describe some of the symptoms, probable causes and possible solutions regarding the unit:

Symptom	Probable Cause	Possible Solutions
No audio	No signal from source	Source off. Power missing. Check led. Check continuity on all pair. Check if pairs are not swapped. Check if the four pairs are present. Malfunctioning unit.
Intermittent audio or no audio	Cable too long	

If you still can't diagnose the problem, please call MuxLab Customer Technical Support at 877-689-5228 (toll-free in North America) or (+1) 514-905-0588 (International).

