tvONE

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Stereo Audio Extender

Quick Reference
&
Setup Guide

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Appendix A. Cabling Pinouts
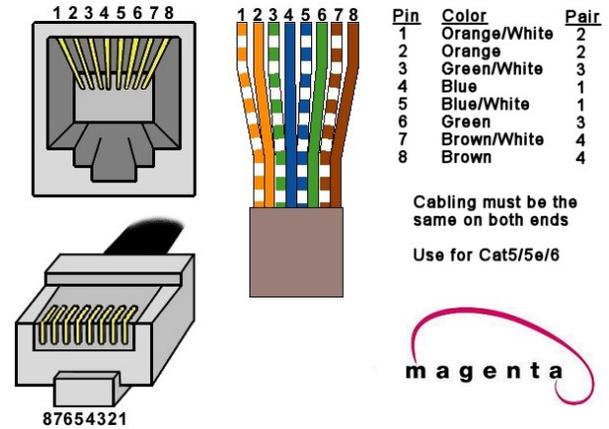
Table A-1. T568B CAT5 pinout

Appendix B: Cyan Extender Modes

The Cyan Stereo Audio Extender can be re-configured for two other modes when used with tvONE's Magenta Research equipment.
Contact tvONE on the usage of these modes.
Jumpers are inside the unit and not accessible externally.

Audio Balun II Jumper settings

Mode	JP1	JP2	Pairs Used
Stereo Audio (Default mode)	OUT	1-2 IN 5-6 IN 9-10 IN 13-14 IN	Pair 1 Blue and Pair 4 Brown
Right/Left Summed (requires Magenta MultiView Products)	IN	9-10 IN 13-14 IN	Pair 4 Brown
AudioCast (legacy product) (Requires Audiocast DA)	OUT	3-4 IN 7-8 IN 11-12 IN 15-16 IN	Pair 1 Blue and Pair 3 Green

4. Troubleshooting

4.1 Common Problems

In most cases, nearly every issue with the Cyan Audio Extenders can be resolved by checking the CAT5/5e/6 termination and making sure that it's pinned to the T568B wiring specification. However, there may be other problems that cause the system to not perform as it's designed. Below are solutions to the most common installation errors.

Problem: Poor audio quality:
Solution: • Powered speakers are required. Make sure speaker power is
        ON.
      • Check input source levels from the source device. Make sure
        the audio source is not overdriven or underdriven.
      • Ensure line level audio is used.

1. Specifications

Cable Required:	Category 5, 5e, 6 twisted pair (UTP)
Maximum Distance:	2,000 ft (610m)
Audio Support:	Line Level Stereo
Connectors:	(2) RCA , (1) RJ-45
Temperature Tolerance:	Operating: 32 to 104°F (0 to 40°C); Storage: -4 to +140°F (-20 to +60°C)
Humidity Tolerance:	Up to 80% noncondensing
Enclosure:	Plastic
Size:	0.94"H x 2.62"W x 2.94"D (2.3 x6.6x7.5 cm) each unit
Weight:	0.16 lb. (0.07 kg) - each unit
Power:	Not Required

2. Introduction

2.1 Overview

The Cyan Stereo Audio extenders extend line level stereo audio signals over Category 5/5e/6 cable.

WARNING
This equipment is not intended for, nor does it support, distribution through an Ethernet network. Do not connect these devices to any sort of networking or telecommunications equipment!

2.2 Equipment You May Also Need

• Stereo audio RCA cables

2.3 Compatible Cabling

Cyan Stereo Audio extender products are compatible with Cat5/5e/6 data cabling.

CAT5/5e/6 cabling for the Cyan Stereo Audio extender must be pinned to the TIA-EIA T568B wiring specification (see appendix A). We also highly recommend that all CAT5/5e/6 cables be pre-terminated and tested. Cables terminated on-site or in an existing infrastructure should be tested before use to ensure compliance with the TIA-EIA T568B specification. Using incorrectly terminated CAT5/5e/6 cables can damage the units.

3. Setup and Installation

3.1 Making the Connections

3.1.1 CONNECTIONS AND SETUP IN GENERAL

This section contains figures showing connections with the specific Cyan Extenders. Note that the extender unit's can be used at the sender end or receiver end. In general the connection and setup procedure at both transmitter and receiver ends is as follows:

At the sender end:

1. Connect the source audio to the Cyan Extender Right/Left RCA ports.
2. Connect the CAT5/5e/6 cables to the sender.

At the receiver end :

1. Connect the speakers to the Cyan Extender Right/Left RCA ports
2. Connect the CAT5/5e/6 cables to the UTP connection.

3.1.2 CONNECTIONS ON THE CYAN AUDIO EXTENDER:

Figure 3-1 shows the Stereo Audio connections. Note that either unit can be the sender or receiver.
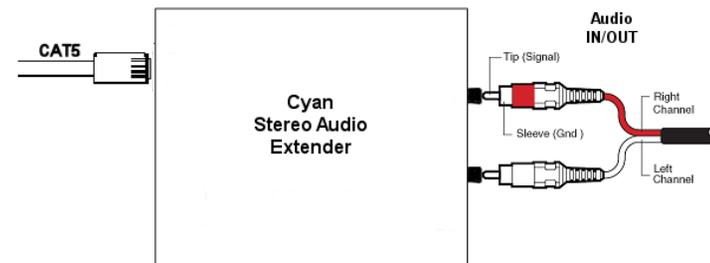
Figure 3-1. Connections on the Stereo Audio Extenders