

# Specifications

<b>Environment</b>	Audio Distribution using CAT cabling
<b>Device Targeted</b>	Audio System using the Muxlab HiFi Balun.
<b>Power Output</b>	30W RMS maximum (PMPO) per channel into 8 ohm
<b>Frequency response</b>	15 – 20,000 Hz (+/- 3 dB)
<b>Front Control</b>	Volume, push to save power-up default
<b>Front Display</b>	Input level left and right: L R Volume level: ((o)), Set volume memory: M
<b>Mounting Brackets (not included)</b>	Muxlab M500917
<b>Power Requirement</b>	120W max, 24V 5A.
<b>Compatible Source Unit</b>	Audio matrix: 500210 Balun: 500019, 500027, 500028*, 500030 (*recommend)
<b>Cabling Requirement</b>	Any 4-pair straight cable UTP Cat5, 5E or 6
<b>Connectors</b>	Input: One RJ45 connector Output: Four binding posts: red & black, for each channel Power input: One power coaxial jack, 2.0 mm
<b>RJ45 Pin Configuration</b>	Pin 1+2, 3+6 for audio left and right
<b>Temperature</b>	Operating : 32° to 90°F (0° to 40°C) Storage: -40° to 185°F (-40° to 85°C)
<b>Humidity</b>	Maximum 90% (non-condensing)
<b>Enclosure</b>	Aluminum, black anodized.
<b>Dimensions</b>	4" x 5" x 2" (9 x 13 x 5 cm)
<b>Weight</b>	5 lbs (2 kg)
<b>Warranty</b>	2 Years
<b>Order Information</b>	M500219 Analog Audio Balun Amplifier



## ANALOG AUDIO BALUN AMPLIFIER 500219

### Quick Installation Guide

#### Overview

The Analog Audio Balun Amplifier allows one (1) analog source using the Muxlab Audio Balun (500028) or Muxlab Audio Matrix Switch (500210) to feed a 30W/channel stereo amplifier using UTP Cat5e/6 cable.

#### Applications

Audio Distribution Systems



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# Installation

One source using a Muxlab Audio Balun (500028) or a Muxlab Audio Matrix (500210) is needed to complete the connection via UTP cable.

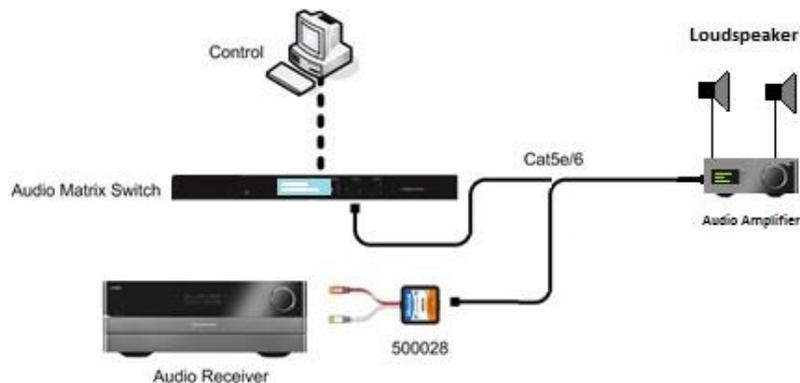
**Caution: Do NOT connect any output wire together or to the ground.**

Do not block the ventilation holes.

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

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

1. Use a 4-pair Cat5/5e/6 cable between the source and the amplifier. Patch panels are allowed.
2. Verify the wiring is “straight-through”, has 4 twisted pairs and has the standard Ethernet RJ45 connector.
3. It is recommend to use the unit with speakers with impedance of 8 ohms and a rating of 50W minimum. Higher impedance will work but less power will be available but lower can overheat the unit.
4. Use wires with at least 18 AWG to connect the binding posts to the speaker. Any standard electrical wire with minimum gage is acceptable but bigger is better. Limit the distance to less than 15ft (5m).
5. Turn the front button to adjust the volume. You should see the lowest bar moving.
6. Push the front button to save the default volume at power-up. A small ‘M’ should appear near the volume symbol ‘(o)’ until you turn the button again.



# 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 continuity	Check continuity on each pair. Check if pairs are not swapped or reversed. Check if the four pairs are present.
	Volume off	Check display to see the input level and turn the front volume.
	Equipment off	Check the audio source equipment.
Loss of Hi Frequency	Exceeded distance	Verify total cable length.
Hum or Buzz	Defective cable or equipment incorrectly connected or grounded.	Change cable or verify wiring interface. Try grounding equipment on each side to safety ground.
Sound chopped or cut	Volume too loud	Check display.
	Overheat unit	Place the unit in a ventilated area. Speaker impedance too low.

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).