Specifications

Bandwidth	20 Hz to 20 kHz	
Impedance	600:600 ohms, balanced to unbalanced	
Max Distance	2500 feet	
Common Mode Rejection	Greater than 40 dB	
Nominal Level	1.0 volts	
Cable (Cat 3, Cat 5, Cat 5e, Cat 6, Cat 7 compatible)	UTP (24 gauge or lower solid copper UTP)	Maximum capacitance: 20 pf/foot Impedance: 100 ohms @ 1 MHz Attenuation: 6.6 dB/1000 ft. @ 1 MHz
	BNC	Impedance: 75 ohms @ 1 MHz
Connectors	Two (2) RCA to one (1) RJ45	
Pin Configuration	Channel 1 (R): 1 & 2, pair 2 Channel 2 (L): 3 & 6, pair 3	
Isolation	500V	
Insertion Loss	1 dB	
Environment	Conference, corporate AV, meeting halls, houses of worship, schools, auditoriums, kiosks, monitoring stations	
Temperature	Operating: 32 to 131 F (0 to 55 C) Storage: -4 to 185 F (-20 to 85 C) Humidity: up to 95%	
Enclosure	Black Plastic	
Dimensions	2.6" x 2.6" x 1.1" (6.6 x 6.6 x 2.8 centimeters)	
Weight	70 grams (2.5 oz)	
Warranty	2 Years	

*Specifications subject to change without notice

intelix
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A2 Stereo Audio Balun Installation Guide

Overview
The Intelix A2 balun passively transmits two mono or one stereo analog audio signal via Cat 5 unshielded twisted pair (UTP) cable, such as Cat 5. Used in pairs, the A2 transmits analog audio in either direction up to 2500 feet, providing a low-cost, versatile cabling solution which uses a building's existing structured cabling system

Applications
The A2 is ideal for corporate AV, houses of worship, schools, auditoriums, and virtually any other situation involving structured audio distribution

Installation

Caution: Do not attempt to open the balun housing. There are no user-serviceable parts inside the A2. Opening the unit will void your warranty.

To install an A2 balun, perform the following steps:

1. Turn off power and disconnect the audio equipment by following the manufacturer's instructions.

2. Make certain that outlets and cross connects to which you will connect the A2 are configured properly and labeled appropriately to identify the circuit.

Caution: Do not connect the A2 to a telecommunication outlet wired to unrelated equipment. Making such a connection may damage the equipment and/or balun. Please ensure all wiring is "straight-through."

3. Verify the desired twisted pairs are not being used for other LAN or telephony equipment.

4. Connect the RCA inputs from the source equipment to one of the two baluns. Two A2's are needed--one at each end of the run--and are interchangeable.

Caution: Do not mount the balun over equipment ventilation openings. Covering the openings may cause the equipment to overheat.

5. Connect a 4-pair Cat 5 cable from the RJ45 8-position modular jack of the A2 to the twisted pair cabling of the building.

6. Connect the second balun's RCA inputs to the destination equipment.

7. Connect a 4-pair Cat 5 cable from the RJ45 8-position modular jack of the A2 to the appropriate modular wall outlet.

8. Power on the source and destination equipment and test for correct operation.
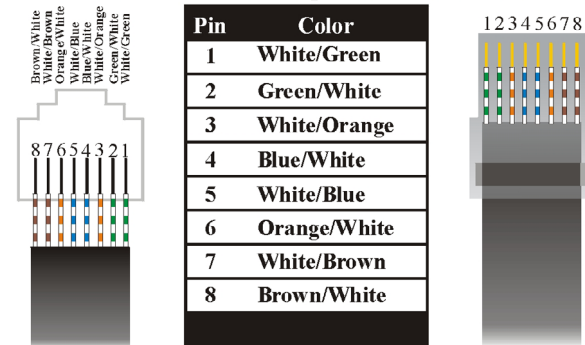

Troubleshooting

If your equipment malfunctions with A2 baluns in place, follow the troubleshooting procedures below:

1. Perform diagnostics on your audio equipment by following the manufacturer's instructions.
2. Check all the connections and the structured cabling system. Verify the RJ45 crimp pattern conforms to either EIA/TIA 568A or 568B standards, as shown below.
3. Check pin configuration.
4. The maximum operational distances over which the A2 can be transmitted is dependant on the equipment used and cable. Ensure that the maximum recommended operational distances have not been exceeded.
5. Check that only twisted pair patch cords are being used.
6. Replace the A2 balun with another A2 that is known to be working.
7. If you still cannot diagnose the problem, call Intelix for support.

EIA/TIA 568A Crimp Pattern Standard

Pin	Color
1	White/Green
2	Green/White
3	White/Orange
4	Blue/White
5	White/Blue
6	Orange/White
7	White/Brown
8	Brown/White

EIA/TIA 568B Crimp Pattern Standard

Pin	Color
1	White/Orange
2	Orange/White
3	White/Green
4	Blue/White
5	White/Blue
6	Green/White
7	White/Brown
8	Brown/White