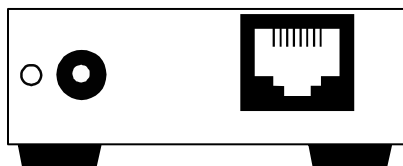


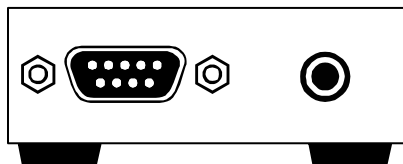
Technical Specifications

AR100 SPECIFICATIONS	
RS232	(TX - DB9Female) (RX - DB9Male)
Protocol	Full duplex, transparent to all baud rate
Audio	Signal Type Stereo Audio Bandwidth 15MHz, 0dB Impedance 100 Ohm Connector 3.5mm mini jack, Female
Cat5	UTP Cat5, up to 3300ft
Power	5VDC
Dimensions	(L) 3.5" x (W) 2.75" x (H) .825"
Weight	0.20 lbs

Front



Back



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Smart-AVI

Smart Audio Video Integration

User Manual

AR100



Extend any RS232 and stereo device up to 3000ft using a single Cat5 cable.

Smart-AVI

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www.smartavi.com

Introduction

The AR100 RS232 - Sound Cat5 extender allows you to extend any full Duplex RS232 with any Stereo sound up to 3000ft using a single unshielded Cat5 cable.

Features

- Unbalanced stereo line level analogue audio to be transmitted via UTP Cat5 Hi-fidelity audio frequency response.
- Extend any touch screen up to 3000ft.
- Extend any sound system up 3000ft.
- Supports all protocol and baud rates.
- Uses easy to install inexpensive CAT5.
- Output reaches up to 3000 feet.
- Compatible with line level stereo audio signals.
- High ground loop immunity.
- Built-in lightning, power surge and transient protection.
- Remote units come with buffered outputs.
- Compact enclosure.
- Optional power supply for remote unit.
- Fully transparent path for all protocols and data transfers.

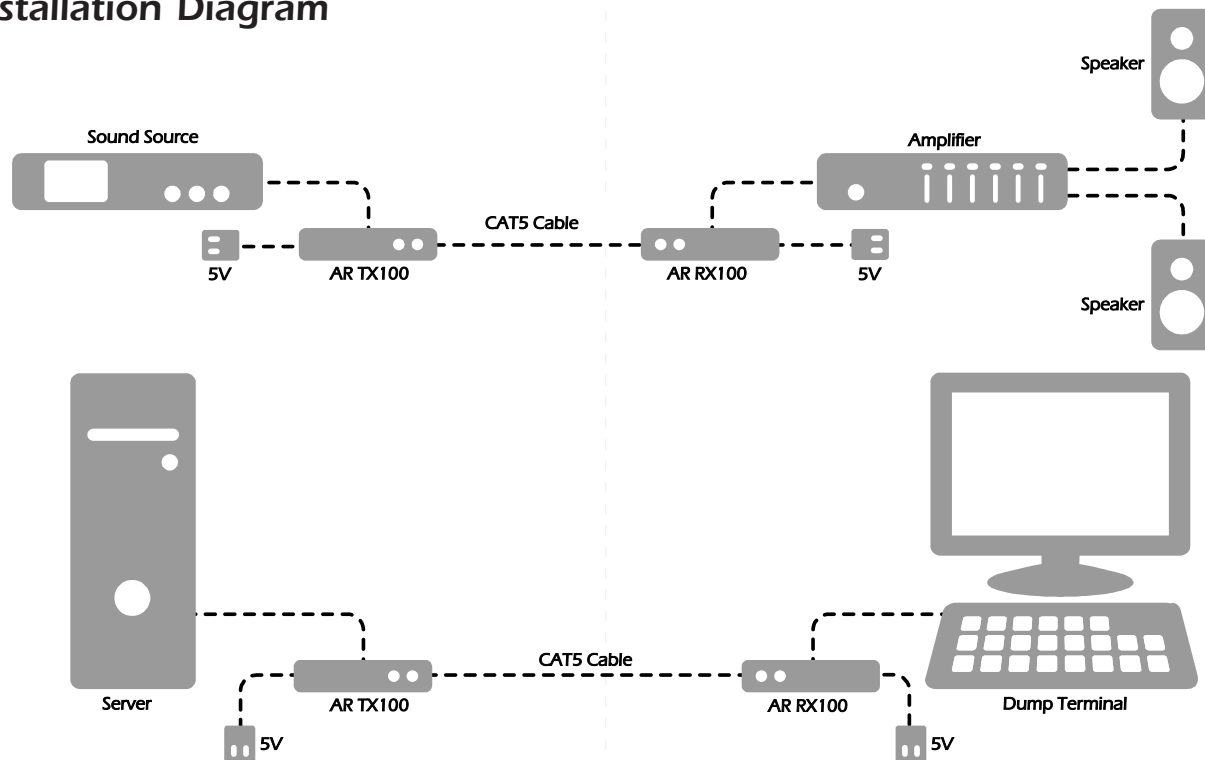
Applications

- Hotel
- Cable TV remote control
- Control rooms
- Remote On-Digital set-top control
- Sky box control extension and switcher output
- Dealer rooms
- Point of Sale
- Remote VCR control

What's in the box?

AR100 Package Content		
Qty	Items	Part No.
1	AR100 Transmitter unit	AR-TX100
1	AR100 Receiver unit	AR-RX100
2	5 volt dc power supply	PS-5D1A-US

Installation Diagram



Connecting The Transmitter

1. Connect an RS232 cable and/or audio cable to the source unit.
2. Connect power supply to the unit. Observe LED lighting up indicating power present

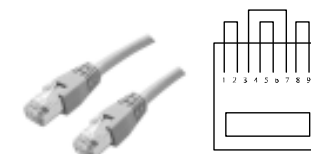
Connecting The Receiver

1. Connect an RS232 cable and/or audio cable to the receiver unit.
2. Observe LED lighting up indicating power present

Preparing & Connecting System CAT5 Cable

Following is the wiring standard for terminating CAT 5 cable using RJ-45 connector:

- | | |
|--------|------------|
| Pair 1 | Pins 1 & 2 |
| Pair 2 | Pins 3 & 6 |
| Pair 3 | Pins 4 & 5 |
| Pair 4 | Pins 7 & 8 |



Connectors:

Capacitance:

Conductor Gauge:

Impedance:

RJ-45

14 pf/ft (46.2 pf/m)

24 AWG

100 +/- 15 ohms

4 - Pair