

Overview:

The Audio AMP IP Transmitter and Receiver allows one of two 2CH Analog Audio-in and Mic-in signals to be extended over an IP network, and up to 330ft (100m) from an Ethernet Switch via Cat5e/6 cable in a point-to-point configuration. Point-to-multipoint and multipoint-to-multipoint is supported by connecting several Transmitters and Receivers to the same local Ethernet network. Depending on the application one or more Transmitters (AV-IP-AMPTX) can communicate with (or multicast to multiple Receivers (AV-IP-AMPRX). The Transmitter supports PoE (PD) if used with a PoE (PSE) Ethernet Switch. Supports bidirectional RS232 and directional IR transmission initiated via an IP network or via pass-through for remote control of end devices.

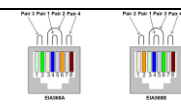


Key Features:

- Supports dual 2CH Audio inputs and a Mic input (TX)
- Extend 2CH Audio or Mic signals up to 330ft (100m) over Cat5e/6 cable
- Supports a 2x50W Amplifier, and bridge-mode for 1x100W (RX)
- Supports Digital Audio Out (RX)
- Control input selection, volume, bass and treble (TX)
- Manage TX unit locally via push/turn dial or remotely via AV-IP-NC811 web interface
- Supports point-to-point, point-to-multipoint and multipoint-to-multipoint applications
- Supports 100's of Transceivers depending on network bandwidth
- Supports RS232 and IR transmission for remote control of end devices
- Transmitter may be PoE powered

Applications:

- Commercial and residential AV systems
- K6 and K12 classroom AV systems
- Digital signage
- Boardroom systems
- Collaborative PC systems
- Medical information systems

Specifications	
Environment	2CH analog audio distribution over multiple zones via an IP network.
Devices	2CH audio source equipment, microphone systems, speakers, PA systems.
Signal Bandwidth	20Hz to 20KHz
LCD Display	2 line x 20 character backlit LCD display (on TX)
Control	Local control via front push/turn knob and LCD display, remote control via web interface and AV-IP-NC811 controller (on TX).
Audio Signals	Two (2) 2CH analog audio in One (1) Mic in One (1) SPDIF Out (2CH digital audio)
Connectors	Two (2) RCA receptacle for Analog Audio In (on TX) One (1) 3.5mm jack for Analog Audio In (on TX) One (1) 3-pin phoenix connector for Mic In (on TX) One (1) RCA receptacle for SPDIF Out (on RX) Two (2) RJ45S for Cat 5e/6 unshielded or shielded twisted pair (one for TX and one for RX) Two (2) 3.5mm jack for IR Emitter or IR Sensor (one for TX and one for RX) Two (2) DB9 Serial Ports for RS232 (one for TX and one for RX) Two (2) 8-position DIP Switches for device ID addressing and config (one for TX and one for RX) One (1) 4 pin phoenix connector speaker terminals (2x50W into 8Ω) Two (2) 2.1mm locking power connector (one for TX and one for RX)
<i>Note: Cables not included.</i>	
Cable	One (1) Cat 5e/6 or better twisted pair cables required.
Maximum Distance	Cat5e/6: 330ft (100m) <i>Note: When installed in an electrically noisy environment, an STP cable must be used. Also, cross-connections in the signal path reduce the effective distance depending on the grade of twisted cable used.</i>
IR Frequency	Directional IR: 38KHz to 56KHz
RJ45 Pin Configuration	RJ45 Link Pin 1 (R) Pin 2 (T) Pin 3 (R) Pin 6 (T) Pin 4 (R) Pin 5 (T) Pin 7 (R) Pin 8 (T) 
Power Source	Transmitter: Supports PoE (PD), an external power supply is not included. It is intended to be powered via a PoE (PSE) Ethernet Switch. If required, an optional power supply may be purchased separately (see West Penn Wire website product page for more details). Receiver: Includes a power supply (160W maximum, 32VDC 5A).
PoE Standard	IEEE 802.3af
Power Consumption	Transmitter: 3W Receiver: 160W (max)
Temperature	Operating: 0° to 40°C Storage: -20° to 85°C Humidity: Up to 90% non-condensing
Dimensions	TX: 4.33" x 4.76" x 1.97" (11 x 12.1 x 5 cm), RX: 4.33" x 7.91" x 1.97" (11 x 20.1 x 5 cm)
Weight	TX: 1.20lbs (0.55kg), RX: 1.96lbs (0.89kg)
Compliance	Regulatory: FCC, CE, RoHS Flammability: 94V0
Warranty	3 years
Order Information	AV-IP-AMPRX AUDIO AMP IP Receiver (UPC: 612825417712) AV-IP-AMPTX AUDIO AMP IP Transmitter (UPC: 612825417699)
Accessories (Items sold separately)	Univ. Locking Power Supply 5VDC/2.6A IR Sensor and IR Emitter (See West Penn Wire website product page for more details)

Typical Application

