**MuxLab**

**PRODIGITAL™**



## Overview:

The AUDIO / RS232 over IP PoE Transceiver allows 2CH audio signals to be extended up to 330ft (100m) via Cat5e/6 cable in a point-to-point configuration. Point-to-multipoint and multipoint-to-multipoint is supported by connecting several Transceivers to the same local Ethernet network. The device supports PoE (PD) if used with a PoE (PSE) Ethernet Switch, and both RS232 and IR transmission for remote control of end devices. The Transceiver can be configured as a Transmitter or Receiver.

## Applications:

- Commercial and residential AV systems
- Classroom projector systems
- Digital signage
- Boardroom systems
- Collaborative PC systems
- Medical information systems

## Key Features:

- Extend 2CH audio signals up to 330ft (100m) over Cat5e/6 cable
- 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
- 2CH Analog Audio In/Out & Digital Audio Out
- PoE powered

| Specifications | |
|---|---|
| **Environment** | 2CH Analog Audio |
| **Devices** | 2CH audio equipment, amplifiers, powered speakers, PA systems, AV cameras and players. |
| **Transmission** | Transparent to the user. |
| **Bandwidth** | 20Hz to 20KHz |
| **Signals** | 2CH analog audio ( in or out )<br>SPDIF Out (2CH digital audio) |
| **Connectors**<br><br><br><br><br><br>*Note: Cables not included.* | One (1) RCA receptacle for SPDIF out.<br>One (1) 3.5mm jack for analog audio (in or out).<br>One (1) RJ45S for Cat 5e/6 unshielded or shielded twisted pair.<br>One (1) 3.5mm jack for IR Emitter or IR Sensor.<br>One (1) DB9 Serial Port for RS232.<br>Four (4) DIP Switches for device ID addressing and Transmitter/Receiver setting. |
| **Maximum Distance**<br><br>*Excluding 3.5mm cable length.* | Cat5e/6: 330ft (100m)<br><br>*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.* |
| **Latency** | 30ms |
| **Network Requirement** | 100BaseT for Point to Point; 1000BaseT for other configuration. |
| **IR Frequency** | 38KHz to 56KHz |
| **RJ45 Pin Configuration**<br><br>*Reverse Polarity Sensitive. Use EIA/TIA 568A or 586B straight-through wiring.* | **RJ45 Link**<br>Pin 1 (R)　　Pin 2 (T)<br>Pin 3 (R)　　Pin 6 (T)<br>Pin 4 (R)　　Pin 5 (T)<br>Pin 7 (R)　　Pin 8 (T)  |
| **Cable** | One (1) Cat 5e/6 or better twisted pair cables required. |
| **Power Source** | This device 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 (500993) may be purchased separately. |
| **PoE Standard** | IEEE 802.3af |
| **Power Consumption** | Transmitter: 2.9W　　　　　　　Receiver: 1.8W |
| **Temperature** | Operating: 0° to 40°C　　　　　Storage: -20° to 85°C<br>Humidity: Up to 95% non-condensing |
| **Dimensions** | 3.70" x 3.68" x 0.97" (94 x 93.5 x 24.6 mm) |
| **Weight** | 1.1lbs (0.5kg) |
| **Compliance** | Regulatory: FCC, CE, RoHS　　　Flammability: 94V0 |
| **Warranty** | 2 years |
| **Order Information** | 500755　　　　AUDIO / RS232 over IP PoE Extender　　(incl: one Transceiver) (UPC: 627699007556)<br>500755-2PK　AUDIO / RS232 over IP PoE Extender Kit (Incl: two Transceivers) (UPC: 627699907559) |
| **Accessories**<br>(These items are sold separately) | 500905 3-Port Rackmount Transceiver Chassis<br>500920 16-Port Rackmount Transceiver Chassis<br>500917 Wall Mount Transceiver Bracket Kit<br>500998 IR Emitter, and 500994 IR Sensor<br>500993 Univ. Locking Power Supply 5VDC/2.6A US/UK/EU Blade |

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## Typical Application

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