RDL®
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

# Twisted Pair Format-A

## Modules D-TPS7A & D-TPP7A

### Format-A Passive Single Pair Sender


DS-TPS7A D-TPS7A

- Stereo Audio Input Combined to Mono Output
- Input on Mini-jack
- Switch Selects which RJ45 Pair (A, B or C) is Fed
- Signal and Power Pair Pass-Through between TP CABLE RJ45 Jacks
- Passive Circuitry Does Not Require Power
- Galvanic Isolation through a Studio-Quality Transformer
- Daisy-Chain with Single-Pair or Two-Pair Format-A Senders


DS-TPP7A D-TPP7A

- D-TPS7A or DS-TP76A Format-A Audio Sender
- Video Monitor Pass-Through
- Available in RDL White/Gray (D-TPP7A)
- Available in Stainless Steel (DS-TPP7A)

The -TPS7A is a single-pair audio sending module compatible with RDL® Format-A twisted pair products. The front panel features a single stereo mini-jack intended for stereo consumer line level audio sources. A studio-quality transformer provides isolation between the audio source and the RJ45 TP CABLE.

The -TPS7A is a single-pair sender, feeding the input signal to the cable pair set on the rear-panel switch during installation. This module drives only one cable pair, therefore a TP CABLE RJ45 jack is provided to accept signals and power from other mic-level or line-level Format-A senders. Two other single-pair senders may be chained to a TP CABLE jack, or a single two-pair sender may be connected. If three single-pair senders are connected together, each sender must feed a different pair: A, B or C. The -TPS7A must be set to feed pair A if it is connected together with an RDL two-pair sender that feeds stereo audio on pairs B and C.

The -TPS7A is a passive module that does not require power to operate. If power is present on a cable connected to a TP CABLE jack, that power is passed through to the modules connected to the other TP CABLE jack.

The D-TPP7A is the same as the D-TPS7A but includes a connection for composite video pass through.

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# TWISTED PAIR Format-A
## Model D-TPS7A & D-TPP7A
## Format-A Passive Single-Pair Sender

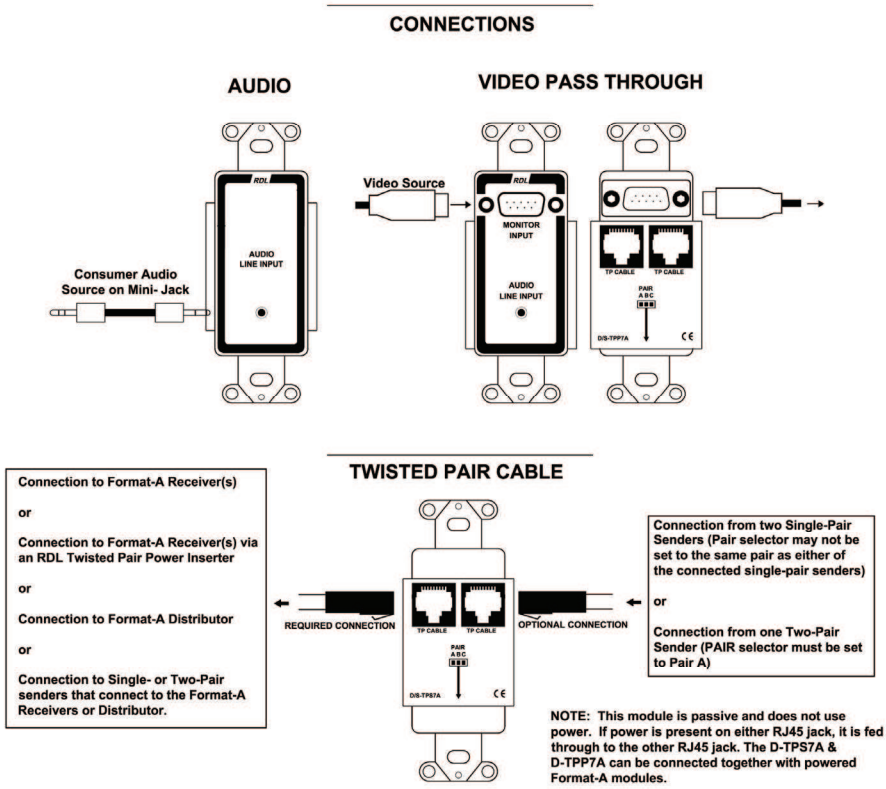
# Installation/Operation

CE **EN55103-1 E1-E5; EN55103-2 E1-E4**
Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.

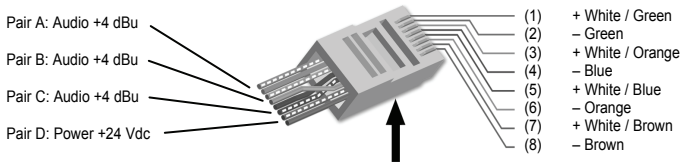
**STEP 1:** Set the **PAIR** selector so the module is driving the desired pair A, B or C of the Format-A cable. If the module is connected together with one or two other single-pair senders, each sender must be set to a different pair. If connected together with a two-pair sender, the switch must be set to pair A.

**STEP 2:** Connect a high-impedance unbalanced audio source to the input (-10 dBu 3.5 mm mini-jack).

**STEP 3:** Connect the twisted pair cable(s) and mount the module.




### RJ45 Standard wiring




RJ45 conductor colors shown are for 568A standard. The 568B standard may be used if the connectors at both ends of the cable are wired identically.

| | | | |
|---|---|---|---|
| Input: | 3.5mm mini-jack, unbalanced stereo combined to mono | Frequency Response: | 20 Hz to 20 kHz (±0.5 dB) |
| Input Level: | -10 dBV, +22 dBu max | THD: | < 0.1% (50 Hz to 20 kHz); <0.001% (1 kHz typ) |
| Format-A Signal Pair Used: | Switch-selectable A, B, or C (rear-panel switch) | Power Requirement: | Passive |
| Format-A Input: | RJ45 TP CABLE | Dimensions: | 1.6" (4.06 cm) W; 4.11" (10.45 cm) H; 1.89" (4.8 cm) D |
| Output: | RJ45 TP CABLE, RDL TP Format-A | | |

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