



RDL®
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

max RACK-UP® SERIES **TWISTED PAIR FORMAT-C** **Model RU-TPS4C** **Four Output Sender / Distributor**

- Video and Stereo Audio Over Single Twisted Pair Cable
- NTSC or PAL Video
- Balanced or Unbalanced Line-Level Audio Inputs
- Front-Panel Trimmer Adjusts Level for Each Audio Pair
- Dual-LED VU Meters Display the Level of Each Audio Pair
- Output Jacks Drive All FORMAT-C Receivers
- Four Separate Feeds to Individual Receiver Locations
- All Connected Receivers Powered from Distributor
- Blue Power LED Shows the Module is Receiving dc Power
- Rear-Panel LEDs Indicate Correct Output Voltage on RJ45s
- Power Bus Jack Provides Expansion to Adjacent Distributors
- High-Density Rack Mounting Using RACK-UP Accessories



APPLICATION: The RU-TPS4C is a four output audio sender, video signal and power distributor module compatible with all RDL Format-C twisted pair products. A video source connects to the BNC input jack. Two line-level audio sources may be connected to the module using the +4 dBu balanced detachable terminal block. Studio-quality buffer amplifiers feed the three pairs of the four rear-panel RJ45 **OUTPUT** jacks at the correct operating level.

Two RDL Dual-LED VU meters are provided on the front panel of the RU-TPS4C to monitor the audio level on each channel. A **GAIN** trimmer adjacent to each meter allows front-panel adjustment of each audio input for optimum operating level.

The RU-TPS4C is constructed in the durable MAX RACK-UP chassis which facilitates mounting three distributors in a single rack unit. Installations requiring more than four distributed outputs are easily accommodated by mounting one or more RU-TPDC Distributors adjacent to the RU-TPS4C. A wide variety of mounting accessories are available in the RDL RACK-UP series. A power bus jack in each RU-TPS4C allows power to enter at only a single module at either side of the rack. The included power jumper cable provides a simple method of interconnecting the RU-TPS4C to an adjacent distributor module, so multiple modules can be operated from a single power supply.

The RU-TPS4C is powered directly from a 24 Vdc power supply using either one of the power jacks or the detachable terminal block. Module power is indicated by a front-panel LED. Local power connected to the module is also fed to all modules connected to the **OUTPUT** RJ45 jacks. The power feeding each **OUTPUT** jack is separately protected by an automatically resetting fuse. A power LED is associated with each **OUTPUT** jack, facilitating identification of wiring faults.

RDL FORMAT-C provides quality balanced video transmission over long distances, and features superior audio performance that rivals or exceeds shielded wiring. Design simplicity, ease of installation, unsurpassed flexibility, automatically fused power, exceptional hum rejection, low noise, and low distortion provide designers and installers the optimum choice in economical twisted pair products.

max RACK-UP® SERIES

TWISTED PAIR FORMAT-C

Model RU-TPS4C

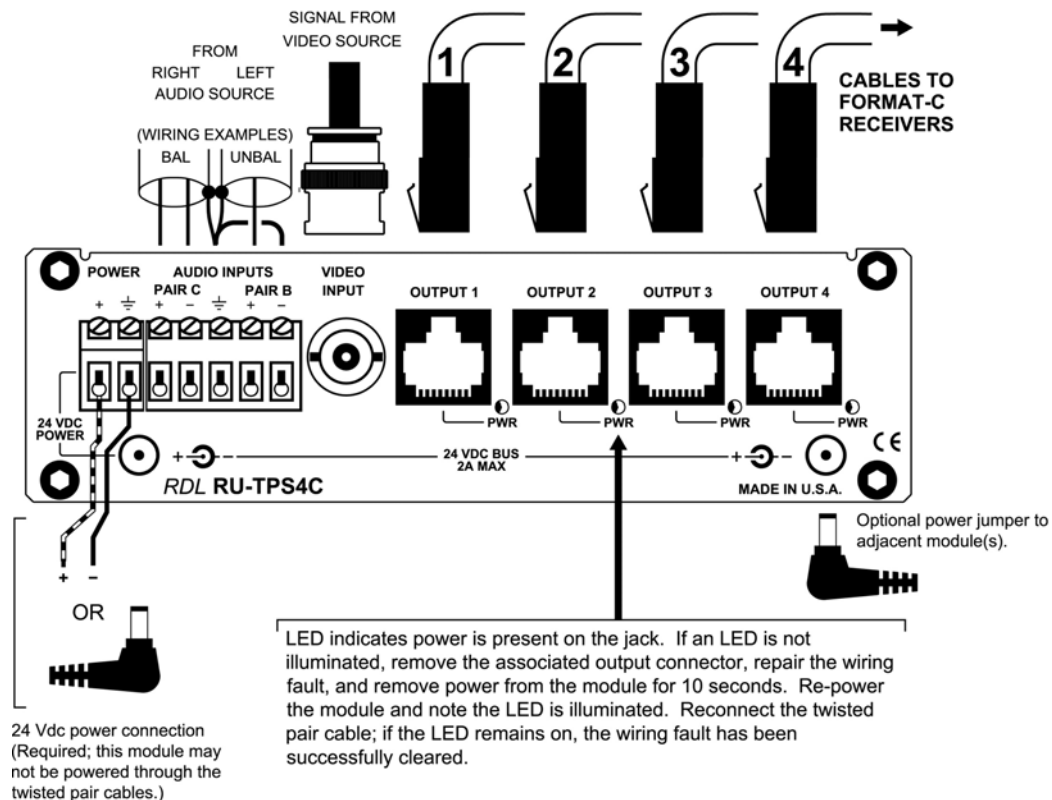
Four Output Sender / Distributor

Installation/Operation

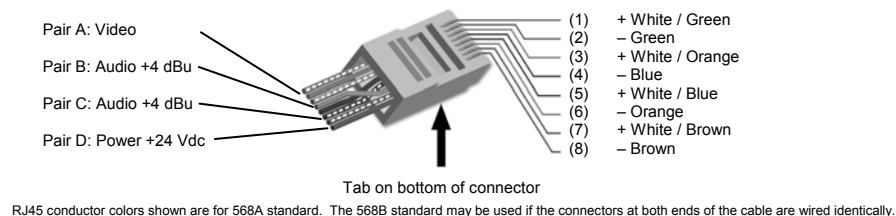


EN55103-1 E1-E5; EN55103-2 E1-E4
 Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.

Notes: The RU-TPS4C provides power to all connected receivers. Each input may be connected balanced or unbalanced.



RJ45 Standard wiring



TYPICAL PERFORMANCE:

Inputs (3): 20 kΩ balanced audio; 75 Ω Video
 Input Connection: Detachable Terminal Block; BNC
 Format-C Signal Pairs Used (3): A, B, C
 Outputs (4): RDL TP Format-C
 Output Connection: RJ45
 Audio section
 Audio Gain: -4 dB to +18 dB Adjustable, multi-turn front-panel trimmer
 Frequency Response: 10 Hz to 50 kHz (+/- 0.1 dB)
 THD+N: < 0.005%
 Noise below +4 dBu: < 90 dB
 Crosstalk: < 90 dB (1 kHz); < 75 dB (20 kHz); Video below noise floor

Headroom above +4 dBu: > 18 dB
 CMRR: > 80 dB (50 Hz to 150 Hz)
 Video section
 Video Format: NTSC or PAL
 Video Bandwidth: 10 MHz

Indicators (9): Power Connections (3):
 Power Requirement: 24 Vdc @ 120 mA plus connected loads
 Maximum Load Current: 200 mA (each RJ45 output)
 Dimensions: 5.8" (15 cm) W; 1.7" (4.3 cm) H; 3.25" (8.25 cm) D

Radio Design Labs Technical Support Centers

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