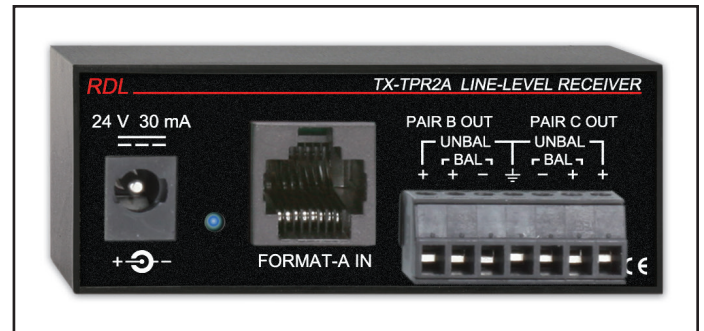


## TX™ SERIES TWISTED PAIR Model TX-TPR2A Format-A Two-Pair Receiver

- Two -10 dBV Unbalanced or +4 dBu Balanced Outputs
- Detachable Terminal Block Outputs
- Audio Outputs for Two Pairs (B and C)
- Powered Locally or Remotely through RJ45 Jack
- Local Power Feeds all Modules Connected to RJ45
- Wiring Fault Protection by Automatic Resetting Fuse
- Local Power Input on dc Power Jack
- Blue LED Indicates Module is Powered
- Studio-Quality Precision Active Balanced Circuitry



The TX-TPR2A is part of the group of versatile TX series products from Radio Design Labs. TX modules feature the superior engineering and components common to RDL products. The durable adhesives provided with the TX-TPR2A permit permanent or removable mounting. The TX-TPR2A may be rack or surface mounted with optional TX series accessories.

**APPLICATION:** The TX-TPR2A is a two-pair audio receiving module compatible with RDL Format-A twisted pair products. Two outputs are provided corresponding to the two signal pairs B and C. The audio signal received on each pair of the RJ45 INPUT jack feeds the corresponding -10 dBV unbalanced output and the +4 dBu balanced output on the detachable terminal block. A studio-quality buffer amplifier feeds the outputs at the correct operating level.

The TX-TPR2A features bridging inputs, allowing it to be connected to the LOOP OUT jack of other receivers. The bridging input circuits used in all FORMAT-A twisted pair receivers allow connection of up to 10 receiver outputs for each cable pair. The possibility of multiple receiver locations adds enormous flexibility in the design of audio routing systems using RDL FORMAT-A products.

The TX-TPR2A may be powered directly from a 24 Vdc power supply. Local power connected to the module is also fed to all modules connected to the INPUT RJ45 jack. The TX-TPR2A may be remotely powered through the twisted pair cable from any other module, signal distributor or RDL power inserter connected to the same twisted pair cable. Module power is indicated by a front-panel LED.

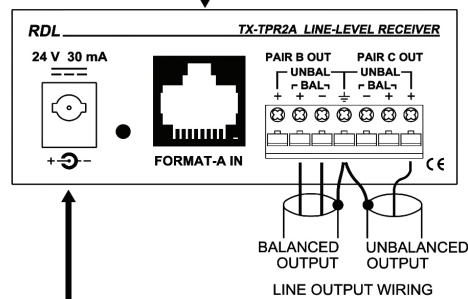


## Installation/Operation

# TX™ SERIES TWISTED PAIR Model TX-TPR2A Format-A Two-Pair Receiver

Declaration of Conformity available from [rdlnet.com](http://rdlnet.com).  
Sole EMC specifications provided on product package.  
Specifications are subject to change without notice.

Connection from Single-Pair or Two-Pair Senders  
or  
Connection from Format-A Distributor  
or  
Connection from other Format-A Receivers



Connect external power if unit is not receiving power from the connected sender. Maximum load current is 200 mA for the RJ45 jack. Power supply must be rated for more than total connected load. The **PWR** LED indicates the presence of valid power.

## TYPICAL PERFORMANCE

Input:	RDL TP Format-A
Input Connection:	RJ45
Format-A Signal Pairs Used (2):	B, C
Outputs (4):	150 Ω Balanced (2); 1 kΩ Unbalanced (2)
Output Connections:	Detachable Terminal Block
Output Level:	+4 dBu Bal., +22 dBu Max; -10 dBV Unbal., nominal
Frequency Response:	10 Hz to 30 kHz (+/- 0.1 dB)
THD+N:	< 0.005%
Noise (below +4 dBu):	< -90 dB
Crosstalk:	< -90 dB (1 kHz); < -75 dB (20 Hz to 20 kHz)
Headroom:	> 20 dB (above +4 dBu)
CMRR:	> 60 dB (50 Hz to 150 Hz)
Indicator:	Power LED
Power Connections (2):	Power Jack; RJ45
Power Requirement:	24 Vdc @ 30 mA
Dimensions:	3.0" (7.6 cm) W; 1.6" (4.08 cm) H; 1.2" (3.05 cm) D