

TPA: Twisted Pair Audio



Audio signal-to-noise: > 96 dB
Audio bandwidth: 20 KHz
Channel separation: > 78 dB
Operating Temp: -40 deg. to + 85 deg.
Warranty: 6 years
Power Supply Rejection: > 84 dB
Audio distortion: > 0.1%
Power: 20 mA @ 12V DC
Size: 2.4" W x 1.6" H x 1" D
Weight: 1.2 oz.
Image Shown: TPA™ Rx front and TPA™ Tx back

The HideAway™ Series TPA™ twisted pair audio is the ideal choice for an affordable solution to audio wiring. The line-level stereo audio signals can now be transmitted and received using simple twisted pair wires thus eliminating the need of costly rewiring. The remote TPA™ receiver can use the Pragmatic IWA™ (In-wall amplifier) or the Pragmatic SAA™ (Stereo Audio Amplifier) to power the speakers.

The SuperTranZ™ circuit eliminates ground loops and noise pick up. It also provides a robust signal for amplification. The system provides true plug and play simplicity and there is no need for manual gain adjustment on the receiver. This is the low cost and better performance alternative to other balanced audio line drivers and receivers on the market. The transmitter and receiver units have a standard RJ-45 plug for twisted pair wires interface, pair of standard phono plugs for stereo line-level audio signals and a 12 V DC power connector.

A basic TPA™ system consists of a user supplied line level, stereo audio source into a TPA™ Tx (transmitter), then via category 5 wiring (or better) to a TPA™ Rx (receiver). Up to 32 Rx's may be inserted at any point beyond the Tx within the maximum wire run. All Rx are powered by individual, supplied UL Listed plug-in transformers or by a separate 18/2 wire run from a central PSU. The Rx signal is then demodulated to line-level analog information and fed to the user's choice of local control, power amplifier and loudspeaker.

The best performance will be achieved with category 5 wiring or better that conforms to EIA568B or EIA868A standards. System will operate satisfactorily on category 3, category 5, category 6 and other twisted pair wires with the same specifications, however, run distances are not guaranteed.

Pragmatic's TPA™ allows connections to any stereo audio source and drive up to 300m/ 1000' to three receivers. It can terminate with in-wall amplifiers up to 48-Watts per channel. It is as simple to install as other category 5 wired systems with a stunning difference in sound quality and detail. Sold as a transmitter and receiver pair with additional receivers available.

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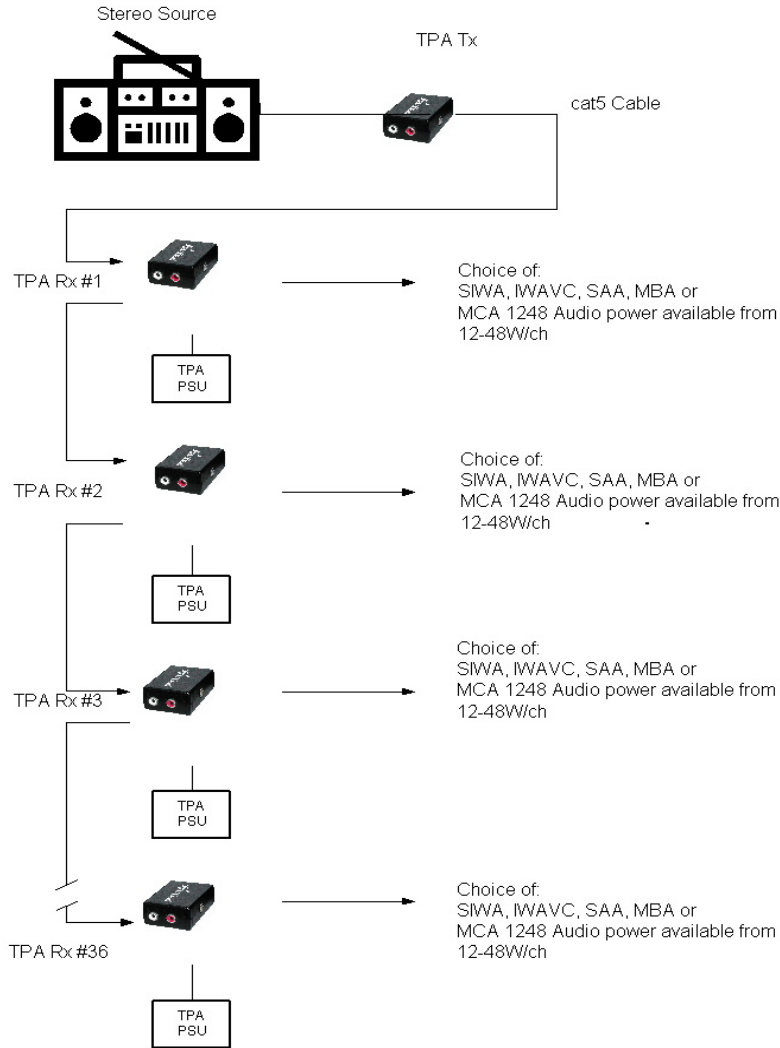
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Applications:

Multiple room audio system in residential markets
 Basic stereo music distribution
 Twisted pair
 Wired system-Transmitter pair
 Receiver pair
 Total of three local receivers with a variety of
 power amplifiers and local control

Features & Benefits:

Recommended output and local control:
 SIWA- In-wall amplifier, output determined by
 drive level, No local control, 2x24 Watts
 IWAVC- In-wall amplifier with rotary volume
 control, Power options:
 Stereo- 12, 24, 36, 48 Watts
 SAA- Ultra Compact Audiophile grade Stereo-
 output determined by drive level, No local
 control. Power options: 12, 24, 36, 48 Watts
 MBA- Ultra Compact Audiophile grade Mono
 Block- output determined by drive level,
 No local control.
 Power options: 20, 24, 36 Watts
 MCA 1248- 2-RU 12x48W Power Amplifier,
 IEC cord to 110 V AC outlet only

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Architect Specifications:

The unit shall measure 2.4"W x 1.6" H x 1" D and weigh 1.2 oz. It shall have a total of three local receivers with a variety of power amplifiers and local control. It shall be simple to install. Its power shall be 20mA @ 12 VDC. It shall be able to operation in environments from -40 to 85 degrees F. Its audio bandwidth shall be 20kHz. Its audio signal-to-noise shall be less than 96 dB and channel separation less than 78 dB. Its power supply rejection shall be less than 84 and audio distortion less than 0.1%.

The unit shall be a Pragmatic TPA™.

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