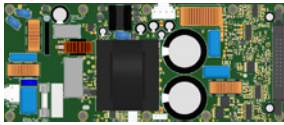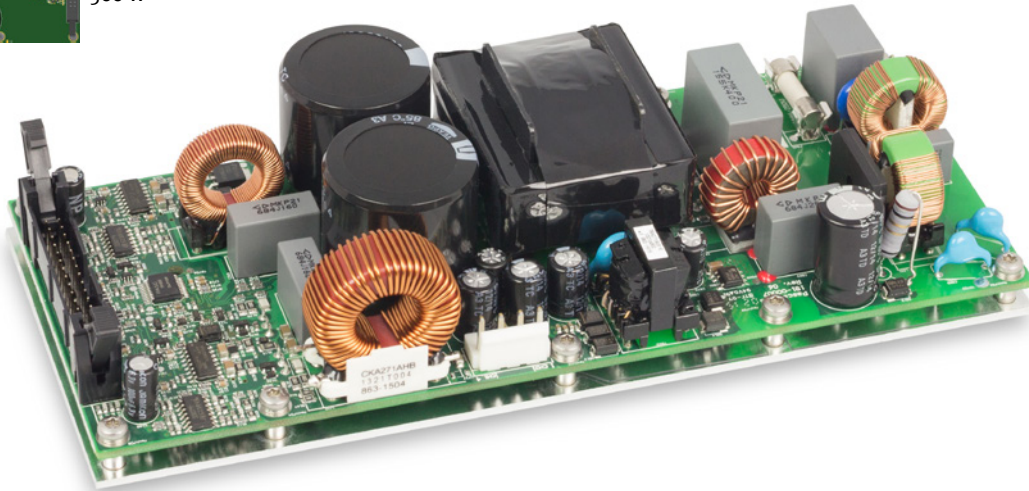# T-PRO Series Amplifier Module

PASCAL

T-PRO2
500 + 150 W

T-PRO1
500 W

Pascal T-PRO Series – an ultra-compact power platform, for 1 and 2-way applications, featuring audiophile sonic performance and integrated power supply with PFC.

T-PRO2 Dedicated for 2 Way Speakers

The T-PRO2's 500 W + 150 W asymmetrical power configuration, feature set and form factor uniquely optimize it as a dedicated power solution for self-powered 2-way loudspeakers in this power range.

T-PRO1 for Low Profile Applications

With a height of only 42mm, the T-PRO Series is designed for applications where a low assembly profile is required. This makes the T-PRO1 ideal for applications such as bass guitar & Hi-Fi amplifiers, and other AV applications. The 500 W single channel configuration is also ideal for use within subwoofers.

Audiophile Performance

Pascal's proprietary UMAC™ Class-D technology delivers unequalled audiophile specifications, including the highest dynamic range and the lowest distortion performance of any comparable pro audio amplifier. This makes the T-PRO series suitable for pro audio applications and for use in high-end Hi-Fi and AV products.

Universal Mains & PFC

Pascal's UREC™ PFC (Power Factor Correction) power supply technology enables universal AC mains operation, eliminating the need for local market specific power regulation products and susceptibility to related reliability issues. The power supply delivers consistent, regulated power worldwide.

Unmatched Efficiency

Like the S-PRO Series, the T-PRO Series boasts the world's best system efficiency, minimizing the requirement for heat sinks and cooling. The cool operation also contributes to the amplifiers' long term reliability.

Auxiliary Power & Readouts

Auxiliary power is available for DSP or analog I/O cards. Readouts of protect/mute, temperature and clip signals are accessible for DSP/Network or IO-boards. The T-PRO Series features ultra low standby power consumption for EuP2013 and green energy star compliance, with an Auto Standby/Wake-up feature with selectable time settings.

Interface compatible with S-PRO2

The T-PRO Series features compatible pin interfacing and identical output voltages to the higher current capable, popular S-PRO2 module; thus the front-end electronics of both the S-PRO2 and T-PRO Series are plug-and-play compatible.

Safety Approved - EMC Compliant

Pascal amplifier modules are safety approved and verified for EMC compliance. CB report and UL certificates are available for easy market approval.
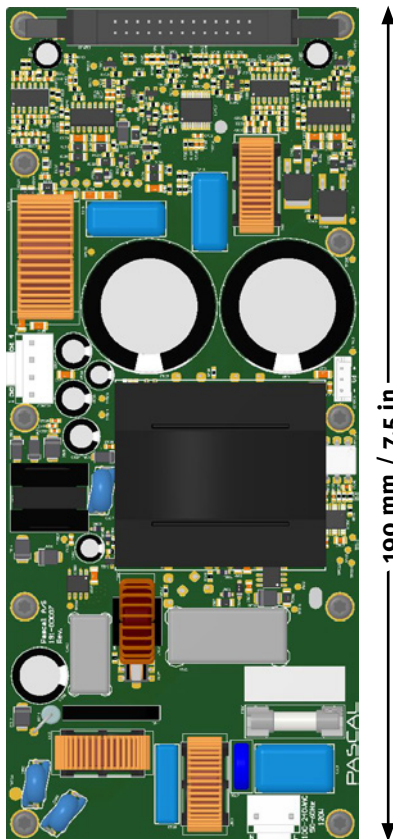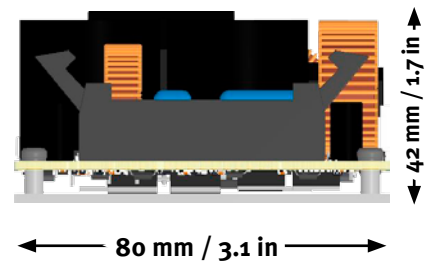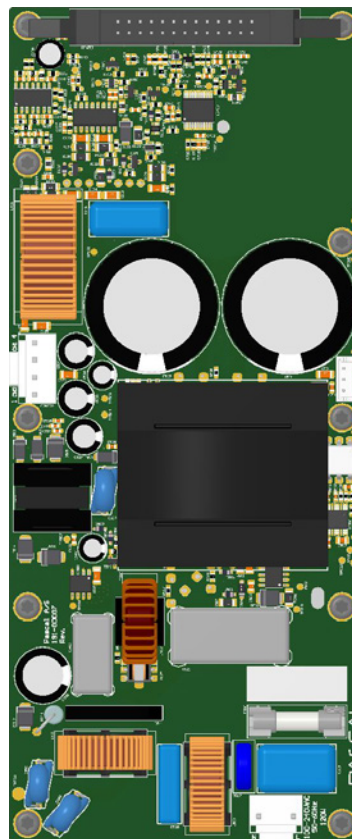
Specifications:

T-PRO2
2 channels (500 + 150 W)

T-PRO1
1 channel (500 W)

190 mm / 7.5 in

42 mm / 1.7 in

80 mm / 3.1 in

Power Ratings (RMS @ 1% THD @ 230Vac)

	16 Ω	8 Ω	4 Ω	2 Ω
Channel 1	120 W	250 W	500 W	Load stable
Channel 2 (T-PRO2 only)	120 W	150 W	75 W	Load stable

Output Circuitry	UMAC™ Class D - full bandwith PWM modulator with ultra low distortion
Output Voltage	70 V_p / 140 V_{pp} (unloaded)
Amplifier Gain	26 dB
Signal To Noise-Ratio	> 120 dB (A-weighted, 20 Hz - 20 kHz, 8 Ω load)
THD+N (typical)	< 0.05 % (20 Hz - 20 kHz, 8 Ω load, 3 dB below rated power)
Frequency Response	20 Hz - 20 kHz (+0/-0.25 dB (8 Ω load, 3 dB below rated power)
Damping Factor	> 500 (8 Ω load, 1 kHz and below)
Protection Circuits	Short circuit protection, DC protection, under voltage protection, temperature protection, overload protection
Readouts & Control options	Protect/Disable (mute), Temperature, Clip, Voltage, Auto Standby/Wake-up (3 timings)
Power Supply	UREC™ universal mains switch mode power supply with Power Factor Correction (PFC) and integral standby converter
Operation Voltage	Universal Mains, 85-265V
Aux. Power for DSP	±15 V, +7.5 V, maximum total 9 watt available
Standby Consumption	< 0.25 W (Green Energy Star & ErP 1275/2008/EC compliant)
Dimensions	42 x 80 x 190 mm / 1.7 x 3.1 x 7.5 in
Weight	T-PRO2: 520 g / 1.15 lbs, T-PRO1: 505 g / 1.11 lbs

All specifications are typical values

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