

TTM Series

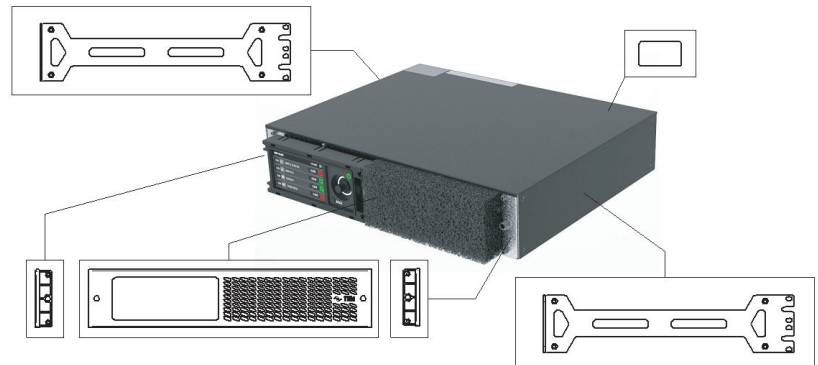
4 Channel OEM Touring Amplifier



- TOURING
- INSTALLATION



TTM is an OEM only platform developed by Powersoft to allow a fast time to market (TTM) for companies wishing to have their own amplifier line.



TTM includes comprehensive signal processing, analog, AES3, Dante/AES67 inputs and outputs, and a bright 4.3" IPS display with capacitive touch.

The 4 channels, 2U TTM offers ample power and voltage, allowing for high SPL even with 8 or 16Ohm loads, and is capable of delivering a massive 4 x 3000W output on 4 Ohm loads.

The PFC equipped power supply is able to operate anywhere in the world, and it sports 750J of energy storage to keep a consistent performance.

Powersoft can ship a complete

unit with black front grille, handles and brackets, but the OEM might replace them with its own parts. Alternatively, OEM can negotiate a customized version.

ProManagerPlus software can be used to configure the TTM with OEM data, and to preload the preset library of the OEM full product line.

The amplifier can be controlled locally through the display interface. Available functions includes preset recall, gain, delay, and muting functions. This satisfies the requirements of most rental companies.

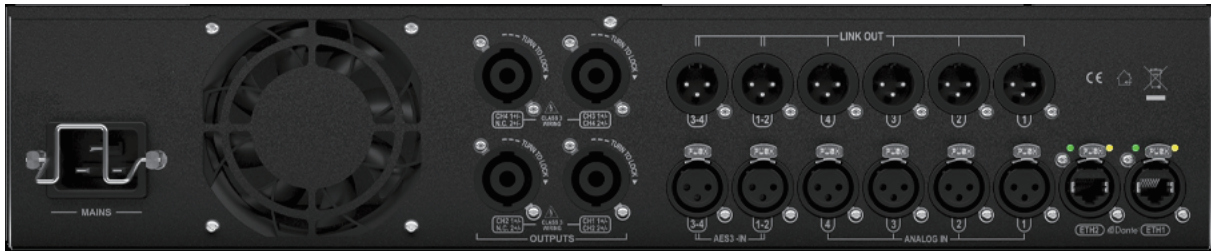
TTM can also be controlled remotely with ArmoniaPlus or with a third party software.

Applications:

- ← Small to medium scale touring systems
- ← Arenas & concert halls
- ← Stadiums & open-air events
- ← Multi-zone venues & live clubs

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4 Channel OEM Touring Amplifier



Specifications

Channel Handling				
Outputs	4 x Speakon NL4 4 Dante/AES67 TX (from local input or DSP)			
Inputs				
Analog	4 XLR female 4 XLR male (LINK)			
Digital AES3	2 XLR female (4 x audio channels) 2 XLR male (LINK)			
Digital Dante/AES67	2 XLR Ethercon (4 x audio channels)			
Audio				
	Gain TTM8K4 TTM12K4			
Input sensitivity @ 8 Ω	32 dB 2.86 3.22 Vrms			
	S/N (20 Hz - 20 kHz @ 8 Ω)	109 Typ.	110 Typ.	dB(A)
Max input level	24 dBu			
Frequency Response @ 8 Ohm load	20 Hz - 20 kHz +/- 1.0 dB			
Crosstalk (1 kHz)	-75 dB typ.			
Input impedance	20 kΩ Balanced			
CMRR	65 dB typ.			
THD+N (from 0.1 W to Half Power)	< 0.1% (typical < 0.05%)			
SMPTE IMD (from 0.1 W to Half Power)	< 0.1% (typical < 0.05%)			
Output impedance at 100 Hz	30 mΩ			
DSP				
AD converters	24 Bit Tandem™ @ 48 kHz 125 dB-A Dynamic Range - 0.005 % THD+N			
DA converters	24 Bit Tandem™ @ 48 kHz 117 dB-A Dynamic Range - 0.003 % THD+N			
Sample rate converter	24 Bit @ 96 kHz 140 dB Dynamic Range - 0.0001 % THD+N			
Internal precision	32 bit floating point			
Latency	2.5 ms fixed latency architecture			
Memory/Presets	50 amplifier snapshots, virtually unlimited speaker presets			
Delay	2 s (input) + 100 ms (output) for time alignment			
Equalizer	Raised-cosine, custom FIR, parametric IIR: peaking, hi/lo-shelving, all-pass, band-pass, band-stop, hi/lo-pass			
Crossover	linear phase (FIR), Butterworth, Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/oct (IIR)			
Limiters	TruePower™, RMS voltage, RMS current, Peak limiter			
Damping control	Active DampingControl™ and LivImpedance™ measurement			
Display Specs				
Resolution	480x272, 4.3" diagonal			
Brightness	600 nit			
Control	Multitouch capacitive. Rotary encoder 20 steps/turn with pushbutton			

Output Stage	TTM8K4	TTM12K4
per channel @ 8 Ω (symmetrical)*	1500 W	1800 W
per channel @ 4 Ω (symmetrical)*	2000 W	3000 W
per channel @ 2 Ω (symmetrical)*	2500 W	2500 W
per channel @ 8 Ω (asymmetrical)**	1600 W	1900 W
per channel @ 4 Ω (asymmetrical)**	2500 W	3600 W
per channel @ 2 Ω (asymmetrical)**	2500 W	2500 W
@ 8 Ω bridged	4000 W	6000 W
@ 4 Ω bridged	5000 W	5000 W
Maximum unclipped output voltage	160 V _{peak}	180 V _{peak}
Maximum output current	>55 A _{peak}	>55 A _{peak}

* All channels driven and loaded symmetrically
** All channels driven, but channels 2 and 4 at -6dB

Power & Thermal		TTM8K4	TTM12K4		
@ 120 V	Standby	Power	TBD	TBD	W
	Idle	Power	TBD	TBD	W
	1/8 Power @ 4Ω	Power	TBD	TBD	W
		Current Draw	TBD	TBD	A _{rms}
		Thermal Loss	TBD	TBD	BTU/h
@ 230 V	Standby	Power	TBD	TBD	W
	Idle	Power	TBD	TBD	W
	1/8 Power @ 4Ω	Power	TBD	TBD	W
		Current Draw	TBD	TBD	A _{rms}
		Thermal Loss	TBD	TBD	BTU/h
Power supply		Universal regulated switch mode with PFC, SRM			
Nominal voltage (±10%)		100-240 VAC @ 50-60Hz			
Operating Voltage		90-264 VAC @ 50/60 Hz			
AC Mains connector		IEC C20 inlet (20 A max)			

Networking	
Connectivity	Two Gigabit Ethernet ports, integrated switch, Ethercon connectors
Supported topologies	Star, Daisy Chain
Remote interface	ArmoniaPlus or other preferred software
Construction	
Dimensions	483 x 381 x 88.9 mm (19 x 15 x 3.5 in)
Weight	TTM8K4 TTM12K4 10 kg 10 kg

