



OVERVIEW

FEATURES

- > PFC Switch Mode Power Supply
- > Smart Rails Management
- > 4.3" IPS touch display and rotary encoder
- > Analog and digital AES3 connections
- > Control through ArmoníaPlus

APPLICATIONS

- > Medium to large touring systems
- > Arenas
- > Concert halls
- > Live clubs
- > Houses of Worship
- > Lounge Bar

TTM series is a multipurpose amplifier platform which includes comprehensive signal processing, 2048 taps FIR filters, Damping Factor Control, Dynamic EQ, analog, AES3 inputs and outputs, and a bright 4.3" IPS display with capacitive touch.

The patented PFC-equipped power supply can operate anywhere in the world, and sports 750J of energy storage to provide a consistent performance.

The 4 channels, 2U TTM offers ample power and voltage, allowing for high SPL even with 8 or 16 Ω loads, and is capable of delivering up to 3000 W per channel.

The amplifier can be controlled locally through the display interface.

Available functions include preset recall, gain, delay, and muting, satisfying all most common end user's requirements. TTM can also be controlled remotely with ArmoníaPlus.

CHANNEL HANDLING

Outputs	4 x SpeakON NL4		
Inputs	Analog	4 XLR female	
		4 XLR male (LINK)	
	Digital AES3	2 XLR female (4 Ch.)	
		2 XLR male (LINK)	

AUDIO

Input sensitivity @ 8 Ω with 32 dB Gain	2.77	V _{rms}
SNR (20 Hz - 20 kHz @ 8 Ω)	110 Typ.	dB (A)
Max Input Level	24	dBu
Frequency Response @ 8 Ω 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	

OUTPUT STAGE

MAXIMUM OUTPUT POWER	per channel @ 8 Ω (symmetrical)*	1800	W
	per channel @ 4 Ω (symmetrical)*	2700	W
	per channel @ 2 Ω (symmetrical)*	2000	W
	per channel @ 8 Ω (asymmetrical)**	1900	W
	per channel @ 4 Ω (asymmetrical)**	3000	W
	per channel @ 2 Ω (asymmetrical)**	2000	W
	@ 8 Ω Bridged	5400	W
	@ 4 Ω Bridged	4000	W
Maximum unclipped output voltage	180	V _{peak}	
Maximum output current	>55	A _{peak}	

* All channels driven and loaded symmetrically

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

POWER & THERMAL

@ 100 V	Standby	Power	16	W
	Idle	Power	42	W
		Power	1570*	W
	1/8 Power @ 4 Ω	Current Draw	16.5	A _{rms}
		Thermal Loss	1670	BTU/h
@ 240 V	Standby	Power	17	W
	Idle	Power	42	W
		Power	1940	W
	1/8 Power @ 4 Ω	Current Draw	8.9	A _{rms}
		Thermal Loss	2000	BTU/h

Power Supply Universal regulated switch mode with PFC, SRM

Nominal Voltage (±10%)	100-240 VAC @ 50-60 Hz
Operating Voltage	90-264 VAC @ 50-60 Hz
AC Mains connector	IEC C20 inlet (20 A max)

* Limited by AC current to 1/10 Rated Power

DISPLAY SPECS

Resolution	480 x 272, 4.3"
Brightness	600 nit
Control	Multitouch capacitive. Rotary encoder 20 steps/turn with pushbutton

NETWORKING

Connectivity	Two Gigabit Ethernet ports, integrated switch, EtherCon connectors
Supported topologies	Star, Daisy Chain
Remote Interface	ArmoníaPlus™

CONSTRUCTION

Dimensions	483 mm (19") x 381 mm (15") x 88.9 mm (3.5")
Weight	11.3 kg (24.9 lb)