



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

- > Small to medium 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 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 a massive 4 x 2000 W output on 4 Ω loads.

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

The amplifier can be controlled locally through the display interface.

Available functions include preset recall, gain, delay, and muting. This satisfies the requirements of most rental companies. 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) | 109 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)* | 1400 | W |
| | per channel @ 4 Ω (symmetrical)* | 2000 | W |
| | per channel @ 2 Ω (symmetrical)* | 2000 | W |
| | per channel @ 8 Ω (asymmetrical)** | 1500 | W |
| | per channel @ 4 Ω (asymmetrical)** | 2300 | W |
| | per channel @ 2 Ω (asymmetrical)** | 2000 | W |
| | @ 8 Ω Bridged | 4000 | W |
| | @ 4 Ω Bridged | 4000 | W |
| Maximum unclipped output voltage | 155 | 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 |
| | 1/8 Power @ 4 Ω | Power | 1460 | W |
| | | Current Draw | 15.3 | A _{rms} |
| | | Thermal Loss | 1550 | BTU/h |
| @ 240 V | Standby | Power | 17 | W |
| | Idle | Power | 42 | W |
| | 1/8 Power @ 4 Ω | Power | 1440 | W |
| | | Current Draw | 6.6 | A _{rms} |
| | | Thermal Loss | 1480 | 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) |

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) |