MDA 4800

Digital Amplifiers

MAIN FEATURES

- 4-channel Lo-Z / 2-channel Hi-Z Class D power amplifier
- Supports low-impedance loudspeaker systems (2.7/4/8 Ohm) and high-impedance distributed lines (70V/100V)
- Total system power: 3000W
- Up to 2 x 800W output at 2.7 or 4 Ohm
- 4 x 400W output at 8 Ohm
- 4 x 750W output with all channels driven
- Bridge (BTL) mode support up to 2 x 1500W
- 2 x 1200W output at 70V and 2 x 1500W output at 100V
- Class D PWM modulator design with ultra-low distortion
- Frequency response: 20Hz – 20kHz (+0/-0.25dB)
- Signal-to-noise ratio greater than 106dB (A-weighted)
- THD+N lower than 0.05%
- High-voltage output stage: 85Vp / 170Vpp unloaded
- Bridged output capability up to 170Vp / 340Vpp unloaded
- Comprehensive protection circuits including short-circuit, DC, under-voltage, overload, and thermal protection
- Dynamically controlled forced-air cooling system
- Universal switch-mode power supply with integrated Power Factor Correction (PFC)
- Universal mains operation: 100V-240V AC, 50/60Hz
- Power consumption: 700W
- Standby power consumption below 0.5W
- Operating temperature range: 0°C to 40°C

DESCRIPTION

The MDA 4800 is a high-power, multichannel Class D amplifier designed to deliver exceptional performance, efficiency, and reliability for demanding professional installed audio applications. It supports both low-impedance (Lo-Z) and high-impedance (Hi-Z) loudspeaker systems, offering maximum flexibility for large-scale commercial, architectural, and distributed audio environments. The amplifier operates with 4x Lo-Z output channels or 2x Hi-Z output channels, delivering a total system power of 3000W. In Lo-Z mode, the MDA 4800 provides multiple high-power configurations, including 2x 800W at 2.7 or 4 Ohm, or 2x 400W at 8 Ohm, as well as 4x 750W outputs with support for bridge (BTL) operation up to 2x 1500W. In Hi-Z mode, it delivers 2x 1200W at 70V or 2x 1500W at 100V, ensuring compatibility with high-demand distributed audio systems. Built around a Class D PWM modulator architecture with ultra-low distortion, the MDA 4800 achieves outstanding audio performance with a signal-to-noise ratio greater than 106dB and THD+N below 0.05%.

The amplifier provides a linear frequency response from 20Hz to 20kHz, ensuring precise, transparent, and high-fidelity sound reproduction across the full audible spectrum. To ensure maximum reliability in demanding environments, the MDA 4800 incorporates comprehensive protection systems including short-circuit, DC, under-voltage, overload, and thermal protection circuits. Cooling is managed through a dynamically controlled forced ventilation system designed to maintain stable thermal conditions and long-term operational reliability. The unit is powered by a universal switch-mode power supply with integrated Power Factor Correction (PFC) and standby converter, supporting worldwide mains operation from 100V to 240V AC at 50/60Hz. Power consumption is optimized at 700W during operation, with standby consumption below 0.5W for improved energy efficiency. Designed for professional installation environments, the MDA 4800 offers high power density and robust performance, making it suitable for large, distributed audio systems requiring maximum output capability and reliability.

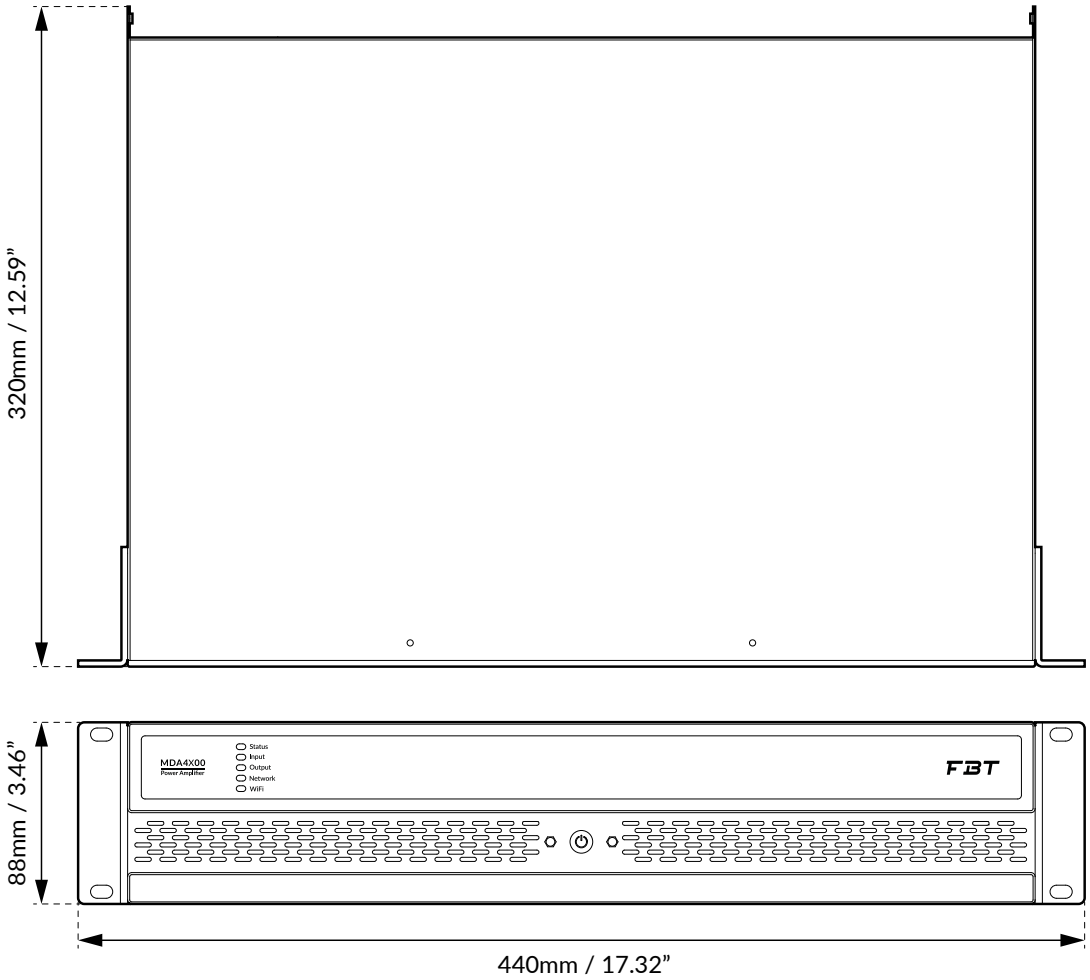
MDA 4800

TECHNICAL SPECIFICATIONS

Code	46066
Channels	4 x Lo-Z / 2 x Hi-Z
Output Power Lo-Z single channels driven (Ch 1 + Ch3)	2x 800W - 2.7 Ohm 2x 800W - 4 Ohm 2x 400W - 8 Ohm
Output Power Lo-Z all channels driven	4x 750W - 2.7Ohm 4x 750W - 4Ohm (2x1500W BTL mode) 4x 400W - 8Ohm (2x1500W BTL mode)
Output Power Hi-Z all channels driven	2x 1200W - 70V 2x 1500W - 100V
Total system power	3000W
Output voltage	85Vp / 170Vpp (unloaded) Bridged 170Vp / 340Vpp (unloaded)
Amplifier tipology	Class D PWM modulator with ultra-low distortion
S/N ratio	>106dB (A-weighted, 20Hz-20kHz, 8Ohm load)
THD+N (typical)	< 0.05% (20Hz-20kHz, 8Ohm load 3dB below rated power)
Frequency response	20Hz-20kHz +0/-0.25dB (8Ohm load, 3dB below rated power)
Protection circuits	Short circuit protection. DC protection. Under voltage protection. Temperature protection. Overload protection
Cooling	Dynamically controlled force cooling
Power supply	Universal mains switch mode power supply with Power Factor Correction (PFC) and standby converter
Operating voltage	Universal Mains, 100V-240V, 50Hz-60Hz
Power consumption	700W
Standby consumption	<0.5 W
Operating temperature	0-40°
Accessories (optional)	---
Net dimensions (WxHxD)	440 x 88 x 320mm 17.32 x 3.46 x 12.59inchS
Net weight	7.9kg 17.41lb

MDA 4800

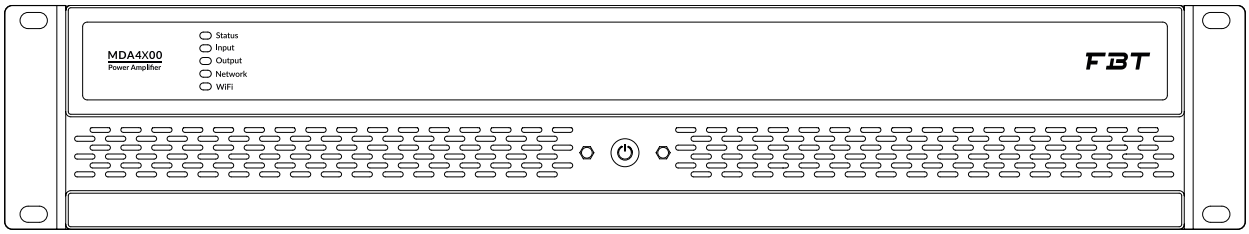
DIMENSIONAL DRAWINGS



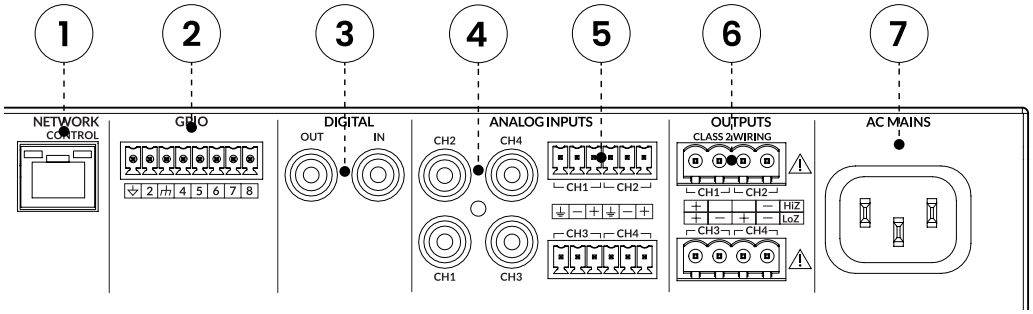
MDA 4800

CONTROL PANEL

FRONT PANEL



REAR PANEL



1. Network control port
2. GPIO connector
3. Digital audio I/O connectors (S/PDIF)
4. RCA Phono connectors for unbalanced analog audio inputs connectors
5. Euroblock connectors for balanced analog audio inputs connectors
6. Speakers outputs connectors (HiZ or LoZ)
7. Main power input DC 100-240VAC, 50-60Hz/150W