MDA 2125

Digital Amplifiers

MAIN FEATURES

- 2-channel Lo-Z / 1-channel Hi-Z Class D power amplifier
- Supports low-impedance loudspeaker systems (4/8 Ohm) and high-impedance distributed lines (70V/100V)
- Total system power: 250W
- Dynamic Power Share technology for flexible output power allocation
- Up to 1 x 250W output in Lo-Z Power Share mode
- 2 x 125W output with all channels driven in Lo-Z mode
- 1 x 250W output for 70V or 100V Hi-Z systems
- 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: 70Vp / 140Vpp unloaded
- Bridged output capability up to 140Vp / 280Vpp 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
- Low power consumption: 75W
- Standby power consumption: <0.6W
- Operating temperature range: 0°C to 40°C
- Optional accessories available: Rack mount kit and wall mount kit

DESCRIPTION

The MDA 2125 is a compact Class D power amplifier engineered to deliver high efficiency, low distortion, and reliable performance for professional installed audio applications. Designed for both low-impedance (Lo-Z) and high-impedance (Hi-Z) loudspeaker systems, offering flexible configuration for commercial, architectural, and distributed audio environments. The amplifier operates with 2x Lo-Z output channels or 1x Hi-Z output channel, offering a total system power of 250W. In Lo-Z mode, the MDA 2125 delivers 2x 125W at 4 Ohm or 8 Ohm with all channels driven, while the integrated Power Share technology dynamically allocates up to 250W to a single channel when required by the application. In Hi-Z mode, the amplifier provides 1x 250W output for both 70V and 100V distributed loudspeaker systems, ensuring compatibility with a wide variety of installation configurations. Built around a Class D PWM modulator architecture with ultra-low distortion, the MDA 2125 achieves excellent audio performance with a signal-to-noise ratio greater than 106dB and THD+N below 0.05%.

The amplifier delivers a linear frequency response from 20Hz to 20kHz, guaranteeing accurate and detailed sound reproduction across the entire audible spectrum. To ensure maximum reliability in demanding operating conditions, the MDA 2125 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 that optimizes operating temperature and long-term stability. The amplifier 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. Energy efficiency is further improved through low standby power consumption below 0.6W. With its compact design, robust architecture, and flexible output configuration, the MDA 2125 represents a reliable solution for modern professional audio installations.

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TECHNICAL SPECIFICATIONS

Code	48282
Channels	2 x Lo-Z / 1 x Hi-Z
Output Power Lo-Z single channels driven for all couple-channel	1x 250W - 4 Ohm (Power Share) 1x 250W - 8 Ohm (Power Share)
Output Power Lo-Z all channels driven	2x 125W - 4 Ohm 2x 125W - 8 Ohm
Output Power Hi-Z all channels driven	1x 250W - 70V 1x 250W - 100V*
Powershare across channels	1x 250W**
Total system power	250W
Output voltage	70Vp / 140Vpp (unloaded) Bridged 140Vp / 280 Vpp (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	75W
Standby consumption	<0.6 W
Operating temperature	0-40°
Optional	---
Accessories (optional)	Rack mount kit, wall mount kit
Net dimensions (WxHxD)	220 x 44 x 213mm 8.66 x 1.73 x 8.38inch
Net weight	2kg 4.40lb

* 100V line mode operates at 90V (~-1dB). All features and specifications can be subject to change without notice.

** MDA 2125: 250W between channels 1/2.

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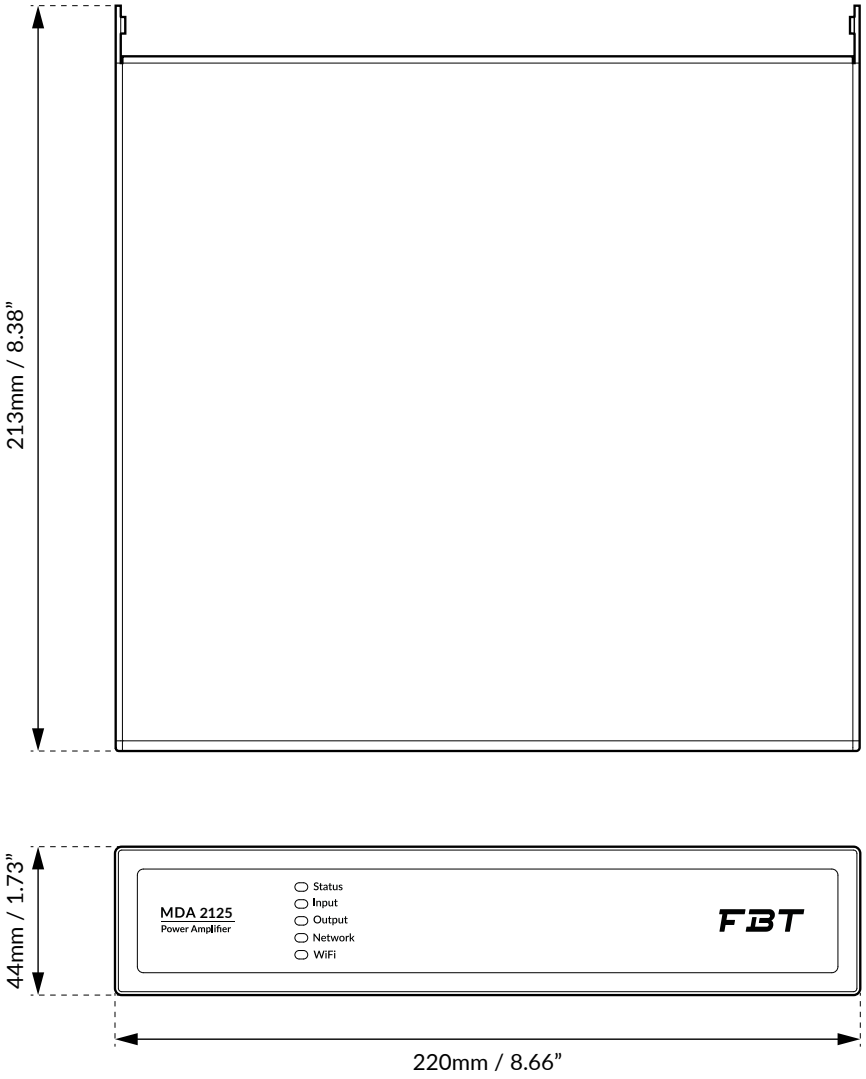
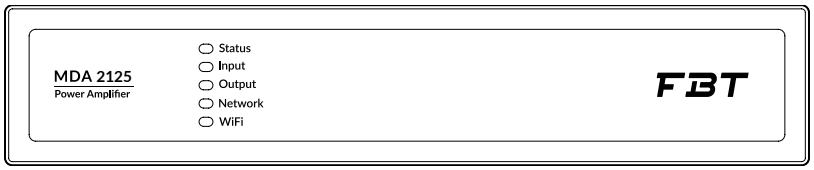
DIMENSIONAL DRAWINGS



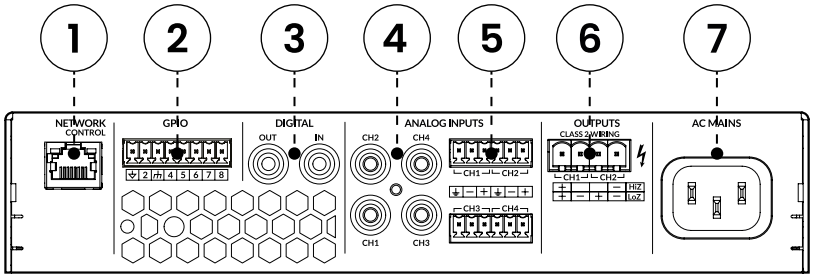
MDA 2125

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