

Digital Amplifiers



MAIN FEATURES

- 8-channel Lo-Z / 4-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: 1000W
- Dynamic Power Share technology for flexible output power allocation
- Up to 4 x 250W output in Lo-Z mode
- 8 x 125W output with all channels driven
- Bridge (BTL) mode support up to 4 x 250W
- 4 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: 85Vp / 170Vpp unloaded
- Bridged output capability up to 170Vp / 340Vpp unloaded
- 4-channel Dante audio streaming receiver with 24-bit / 48-96kHz support over TCP/IP network (*only MDA 8125D version*)
- 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: 300W
- Standby power consumption below 0.6W
- Operating temperature range: 0°C to 40°C

DESCRIPTION

The MDA 8125 is a high-performance, multichannel Class D power amplifier designed to deliver exceptional efficiency, low distortion, and reliable operation in professional installed audio applications. It is suitable for both low-impedance (Lo-Z) and high-impedance (Hi-Z) loudspeaker systems, providing maximum flexibility for commercial, architectural, and distributed audio environments. The amplifier operates with 8x Lo-Z output channels or 4x Hi-Z output channels, delivering a total system power of 1000W. In Lo-Z mode, the MDA 8125 provides multiple power configurations, including 4x 250W at 4, or 8 Ohm, as well as 8x 125W outputs with support for bridge (BTL) operation. In Hi-Z mode, it delivers 4 x 250W outputs for both 70V and 100V distributed loudspeaker systems, ensuring full compatibility with large-scale installation designs. Built around a Class D PWM modulator architecture with ultra-low distortion, the MDA 8125 achieves outstanding audio performance with a signal-to-noise ratio greater than 106dB and THD+N below 0.05%. The amplifier delivers a highly linear frequency response from 20Hz to 20kHz, ensuring accurate and transparent sound reproduction across the entire audible spectrum.

The MDA 8125D version integrates a 4-channel Dante audio streaming receiver with 24-bit resolution at 48-96 kHz over TCP/IP networks, enabling seamless integration into modern digital audio infrastructures. The standard MDA 8125 version offers optional Dante functionality depending on system configuration requirements. To ensure maximum reliability in demanding environments, the amplifier 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 optimal operating temperatures and long-term stability. 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 300W during operation, with standby consumption below 0.6W for improved energy efficiency.

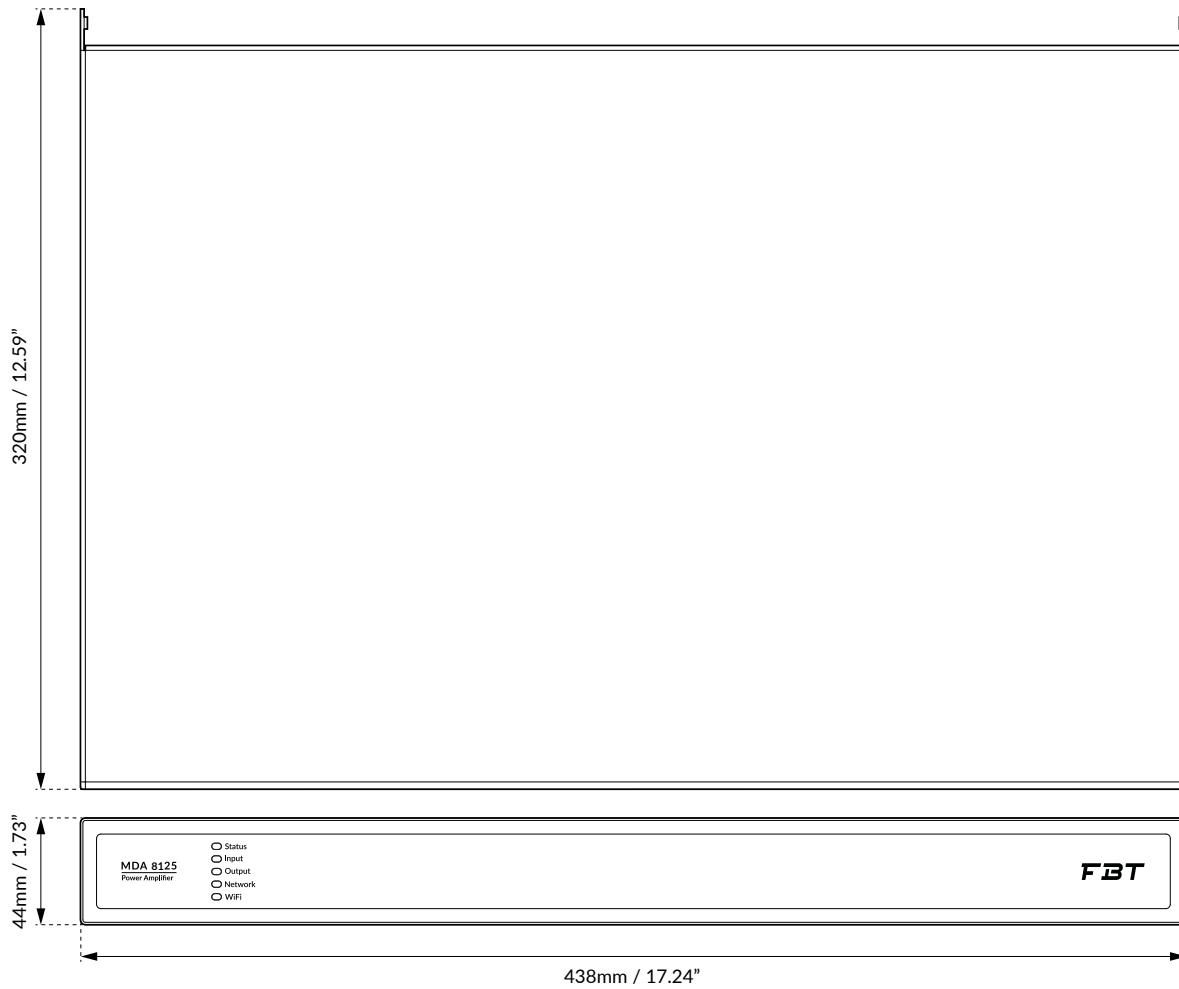
TECHNICAL SPECIFICATIONS

Code	48284 48285 (with DANTE)
Channels	8 x Lo-Z / 4 x Hi-Z
Output Power Lo-Z single channels driven for all couple-channel	4x 250W - 4 Ohm 4x 250W - 8 Ohm
Output Power Lo-Z all channels driven	8x 125W - 4Ohm (4x 250W BTL mode) 8x 125W - 8Ohm (4x 250W BTL mode)
Output Power Hi-Z all channels driven	4x 250W - 70V 4x 250W - 100V*
Powershare across channels	4x 250W**
Total system power	1000W
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	300W
Standby consumption	<0.6 W
Operating temperature	0-40°
Optional	4 channels DANTE audio streaming receiver with 24bit at 48-96KHz on TCP / IP network
Accessories (optional)	---
Net dimensions (WxHxD)	438 x 44 x 320mm 17.24 x 1.73 x 12.59inch
Net weight	3.8kg 8.37lb

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

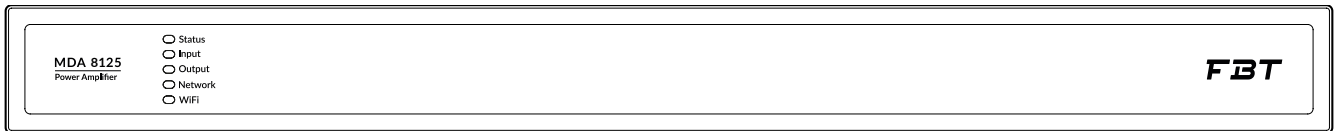
** MDA 8125 and 8125D: 250W between channels 1/2, 250W between channels 3/4, 250W between channels 5/6, and 250W between channels 7/8.

DIMENSIONAL DRAWINGS

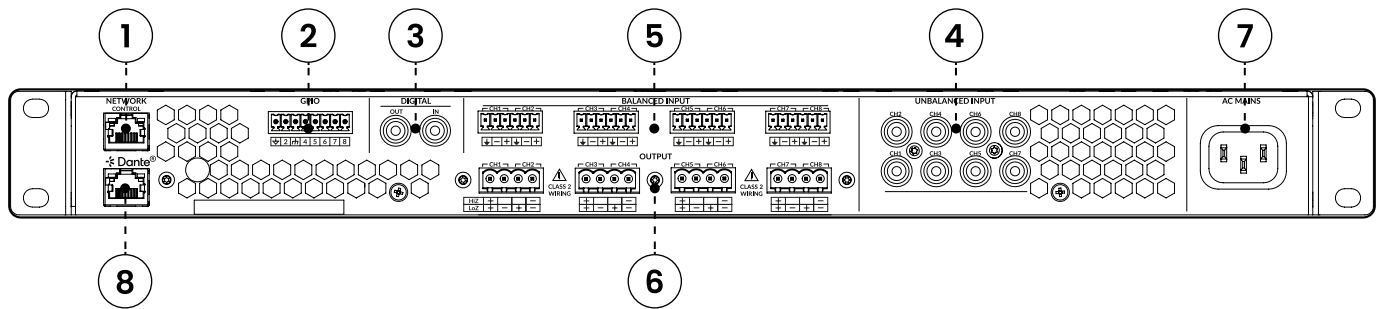


CONTROL PANEL

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
8. Dante (*only MDA 8125D version*)