

MDA 4125 – 4125D



Digital Amplifiers



MAIN FEATURES

- 4-channel Lo-Z / 2-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: 500W
- Dynamic Power Share technology for flexible output power allocation
- Up to 2 x 250W output in Lo-Z Power Share mode
- 4 x 125W output with all channels driven in Lo-Z mode
- 2 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
- 4-channel Dante audio streaming receiver with 24-bit / 48-96kHz support over TCP/IP network (only MDA 4125D 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: 150W
- Standby power consumption below 0.6W
- Operating temperature range: 0°C to 40°C
- Optional accessories available: Rack mount kit and wall mount kit

DESCRIPTION

The MDA 4125 is a compact and versatile Class D power amplifier designed to deliver high efficiency, low distortion, and reliable performance for professional installed audio applications. It is suitable 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 4x Lo-Z output channels or 2x Hi-Z output channels, delivering a total system power of 500W. In Lo-Z mode, the MDA 4125 provides 4x 125W at 4 Ohm or 8 Ohm with all channels driven, while the integrated Power Share technology dynamically allocates up to 250W across output channel pairs depending on system demand. In Hi-Z mode, it delivers 2 x 250W outputs for both 70V and 100V distributed loudspeaker systems, ensuring compatibility with a wide range of installation scenarios. Built around a Class D PWM modulator architecture with ultra-low distortion, the MDA 4125 achieves excellent audio performance with a signal-to-noise ratio greater than 106dB and THD+N below 0.05%. The amplifier provides a highly linear frequency response from 20Hz to 20kHz, ensuring accurate and detailed sound reproduction across the entire audible spectrum.

The MDA 4125D version integrates a 4-channel Dante audio streaming receiver with 24-bit resolution at 48-96kHz over TCP/IP networks, enabling seamless integration into modern digital audio infrastructures, while the standard MDA 4125 can be optionally expanded with Dante capability depending on system requirements. To ensure maximum reliability, 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 stable operating temperatures and long-term 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 150W during operation, with standby consumption below 0.6W for improved energy efficiency. For flexible installation, the amplifier is compatible with optional Rack Mount Kit and Wall Mount Kit accessories, allowing easy integration into a wide variety of professional installation environments.

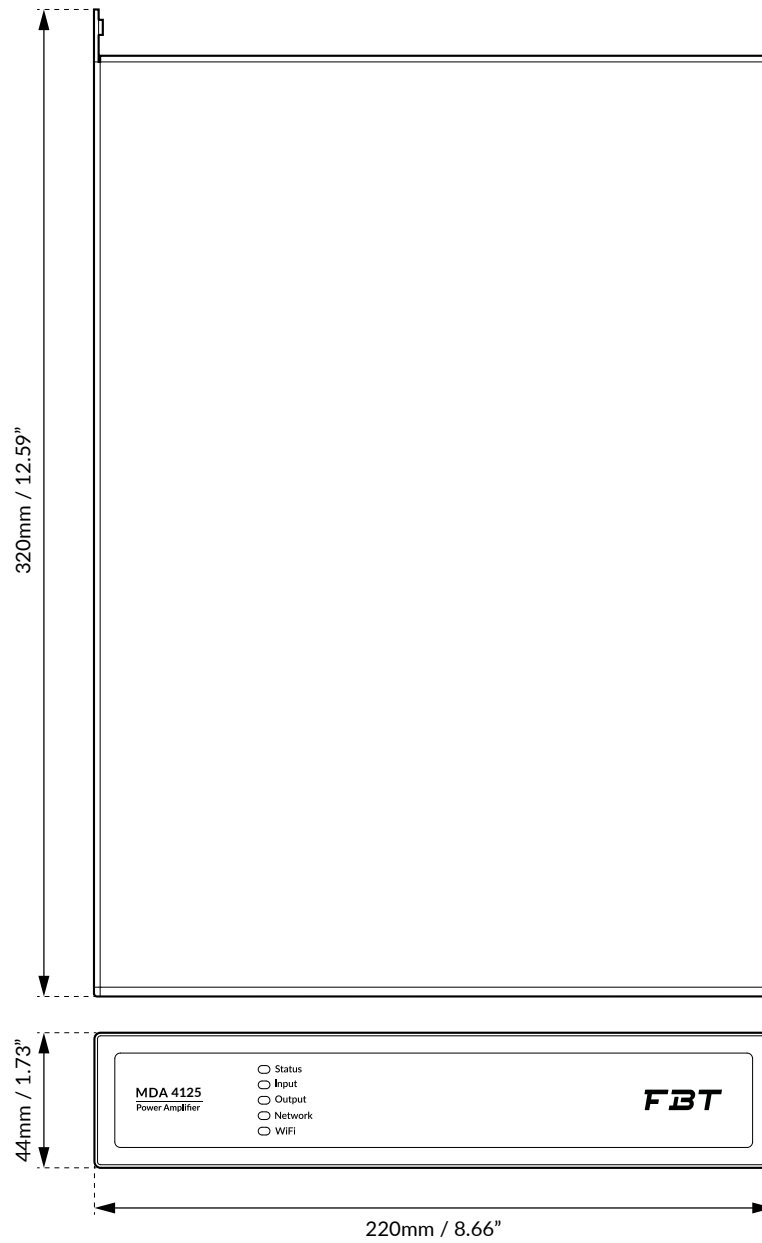
TECHNICAL SPECIFICATIONS

Code	46064 48283 (with DANTE)
Channels	4 x Lo-Z / 2 x Hi-Z
Output Power Lo-Z single channels driven for all couple-channel	2x 250W - 4 Ohm (Power Share) 2x 250W - 8 Ohm (Power Share)
Output Power Lo-Z all channels driven	4x 125W - 4 Ohm 4x 125W - 8 Ohm
Output Power Hi-Z all channels driven	2x 250W - 70V 2x 250W - 100V*
Powershare across channels	2x 250W**
Total system power	500W
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	150W
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)	Rack mount kit, wall mount kit
Net dimensions (WxHxD)	220 x 44 x 320mm 8.66 x 1.73 x 12.59inch
Net weight	2.8kg 6.17lb

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

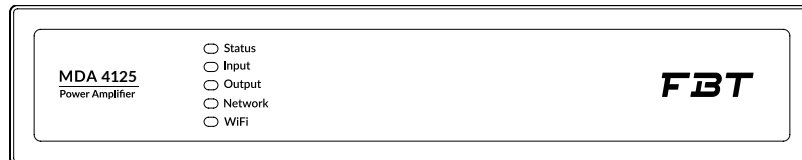
** MDA 4125 and 4125D: 250W between channels 1/2 and 250W between channels 3/4.

DIMENSIONAL DRAWINGS

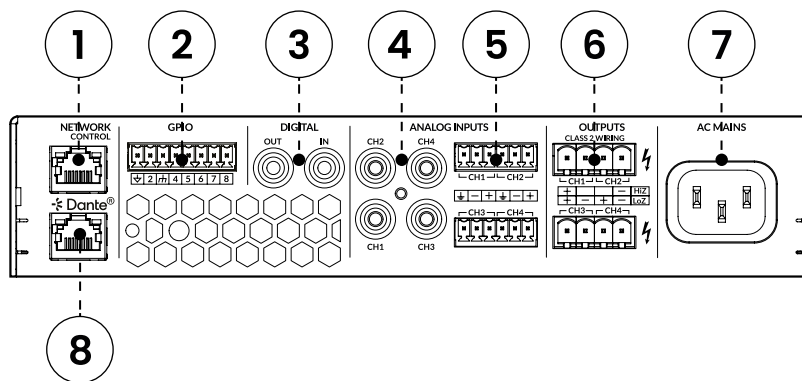


CONTROL PANEL

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 4125D version*)