



BDM8

2 x 300W Audio Amplifier Board

BDM8 is a high-power audio amplifier based on TI's TPA3255 IC, delivering 300W per channel into a 40hm load. Besides that, BDM8 offers line and I2S signal output for more possibility.

Features:

High Power

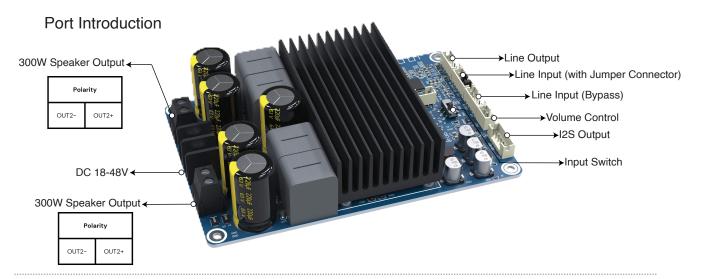
- Strong Driving Capacity
- Robust Heatsink
- High Reliability

High Performance

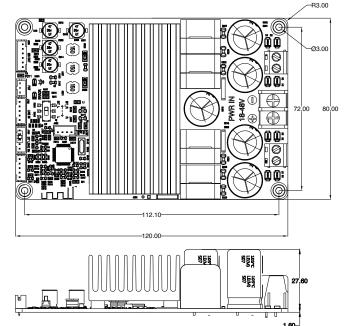
- TPA3255 Amp IC, 2x300W
- High Efficiency and Low Power Consumption
- High Quality Component



Parameters:		Parameters:	
Bluetooth Version	5.0	Output Channel	2.0CH
Bluetooth Name	BDM8	Output Power	300W + 300W 4Ω
Supply Voltage	DC 18V - 48V	Product Size	120mm x 80mm x 27.50mm
Audio Input Source	Bluetooth & Line Input	Weight	232.9g

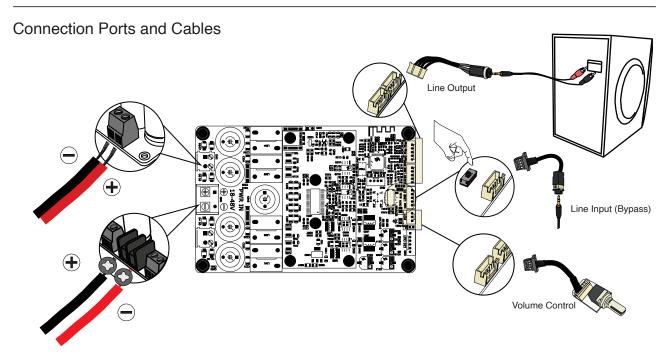


Mechanical Drawing (Nominal Dimensions, mm)







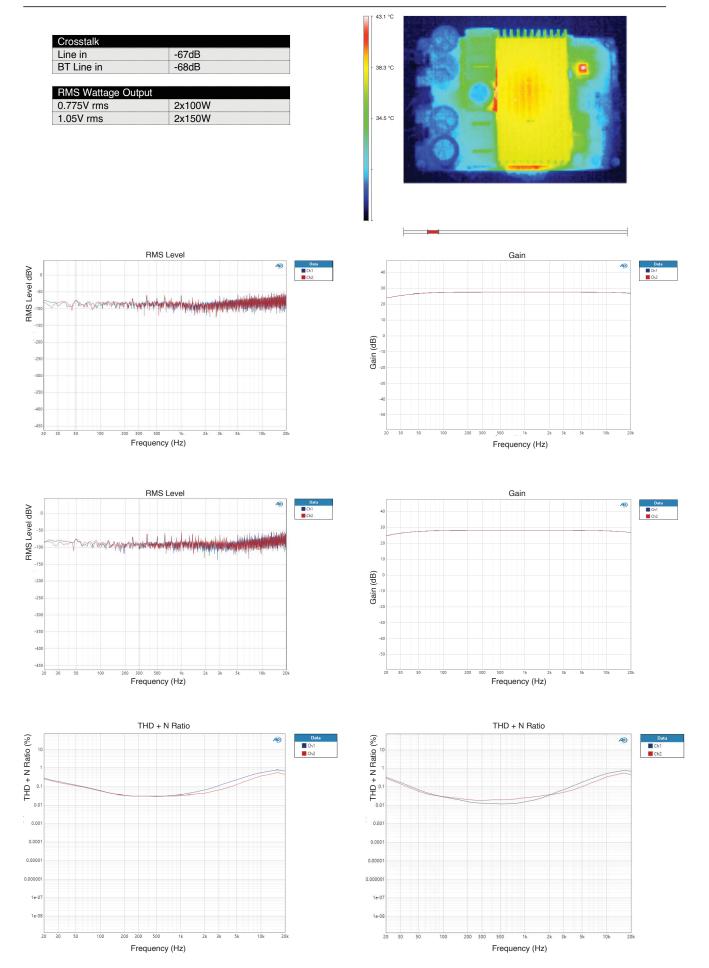


THD Audio Test Performance

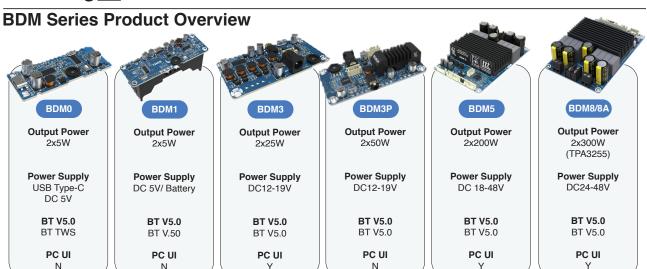
Parameter	Conditions	Min.	Тур.	Max.	Units
Number of Channels	-	-	2	-	-
Minimum Load Impedance	-	3	4	-	Ω
Efficiency	2x 150W@36V,4Ohm, 1kHz	-	85	-	%
Nominal Power Requirement	@36V, 1kHz	-	300	-	W
Operating Voltage	@1kHz, 4Ohm	18	24	36	V
Idle Power	Signal detected@36V	-	3.3	-	W
Switching Frequency	SD Floating@36V	-	450	-	kHz
Dower Consumption	1/4 of max output power@40hm, 36V, 1kHz	-	90	-	W
Power Consumption	1/8 of max output power@40hm, 36V, 1kHz	-	50	-	w
Number of Channels	SD short to GND	-	0.1	-	mW

Parameter	Conditions	Output	Min.	Тур.	Max.	Units
Amp Gain	Line In	OUT1	-	27.53	-	dB
		OUT2	-	27.47	-	dB
	BT Line In	OUT1	-	28.04	-	dB
	DI LINE III	OUT2	-	28.09	-	dB
SNR	Line In	OUT1	-	95.0	-	dB
	2 x 150W@4Ohm, , A-weighting	OUT2	-	94.5	-	dB
	BT Line In	OUT1	-	98.5	-	dB
	2 x 150W@4Ohm,, A-weighting	OUT2	-	97.8	-	dB
	Line In	OUT1	-	0.0048	-	%
THD+N	1W@4Ohm, 1kHz	OUT2	-	0.0050	-	%
	BT Line In	OUT1	-	0.013	-	%
	1W@4Ohm, 1kHz	OUT2	-	0.012	-	%
Output Noise Level	Line In	OUT1	-	235	-	uV
	A-weighting, Input Connected to GND	OUT2	-	257	-	uV
	BT Line In	OUT1	-	252	-	uV
	A-weighting, Input Connected to GND	OUT2	-	278	-	uV
Input Impedance	Line In&BT Line In@4Ohm, 1kHz,		-	20	-	kΩ
Input Sensitivity	Line In, 2 x 150W@4Ohm, 1kHz	OUT1&OUT2	-	1	-	V
	BT Line In, 2 x 150W@4Ohm, 1kHz	OUT1&OUT2	-	1	-	V
DC Offset	-			15	-	mV









BDM Series Product Accessories

Product accessories can be downloaded on our website. We provide STL files for the purpose of 3D printing. If you have a 3D printer, you can continue to print them on your own. Alternatively, if you don't have a printer, you can send the STL file we provided to a store that offers 3D printing services.



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Designed by:



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