## DATA SHEET VOLTERA D M AMPLIFIED LOUDSPEAKER CONTROLLER





Voltera D M series amplified loudspeaker controllers feature a fully programmable DSP onboard with enough headroom to handle even complex audio processing and distribution needs. This combination reduces wiring and device count, dramatically simplifying installations and reducing project costs, making extraordinary sound achievable for organizations who thought it was out of reach.

Available in 600W 4 channel, 1200 2 channel, 1200 W 4 channel, 2400W 2 channel, and 2400W 4 channel, all models of the Voltera D M provide high power and channel density while maintaining high efficiency and low idle power. They are capable of high peak voltage output and can deliver up to 83% of the total power on any channel using power sharing. They also offer both Lo-Z or Hi-Z per channel to support hybrid systems. They feature support of audio via AVB, Dante, and AES67. Dante can be dual redundant.

## **FEATURES**

- Powerful onboard DSP with ample headroom
- Redundant media interface (AVB, Dante, and AES67)
- Lo-Z or Hi-Z per channel to support hybrid systems
- Configurable with Tesira or VenueTune software
- Power sharing up to 83% (the 4-channel models are limited to 75%) of the total power into any channel
- · Wide dynamic range
- Low power consumption during use, idle, and standby
- Limiting for maximum reliability and zero clipping
- High peak voltage output capability (up to 160Vpk)
- High power and channel density

## **VOLTERA D M SPECIFICATIONS**

Model	D 1200.2M	D 2400.2M	D 600.4M	D 1200.4M	D 2400.4M	
General						
Number of ampifier channels	2	2	4	4	4	
Total output all channels driven	1200 W	2400 W	600 W	1200 W	2400 W	
Maximum output voltage	145 Vpk	160 Vpk	145 Vpk	145 Vpk	160 Vpk	
Maximum output current	35 Apk	40 Apk	23 Apk	29 Apk	40 Apk	
Power per channel all channels driven						
Hi-Z (70 / 100 V)	600 W	1200 W	150 W	300 W	600 W	
16 ohm	600 W	1200 W	150 W	300 W	600 W	
8 ohm	600 W	1200 W	150 W	300 W	600 W	
4 ohm	600 W	1200 W	150 W	300 W	600 W	
2.7 ohm	600 W	1200 W	150 W	300 W	600 W	
Max power per channel using power sharing						
Hi-Z (70 / 100 V)	1000 W	2000 W	450 W	900 W	1800 W	
16 ohm	650 W	800 W	450 W	650 W	800 W	
8 ohm	1000 W	1600 W	450 W	900 W	1600 W	
4 ohm	1000 W	2000 W	450 W	900 W	1800 W	
2.7 ohm	1000 W	1360 W	450 W	710 W	1360 W	
	1000 W	1300 W	430 11	/ IO VV	1300 W	
Available on any channel						
Network	210005					
Ports	2 1000Base-T ports					
Networked media formats supported	Dante, AES67 and AVB					
Network modes supported	Converged (all on port 2) or split (control port 1, media port 2)					
PoE+ support	If port 1 is connected to a PoE+ switch with a UPS, then the Voltera D will not reboot wher					
	mains power is lost					
Network latency	AVB: 2 ms, Dante : 1 / 2 ms					
Sample rates supported	96 and 48 kHz					
Remote interface	Tesira, VenueTune					
Third party interface	TTP					
Processing						
Latency (analog input to output)	2.65 ms (includ	es look-ahead delay	in zero overshoo	t peak limiters)		
Default gain (analog input to output)	29 dB					
Per input	Supports input redundancy and failover to analog sources					
Per output	Multilayered group control of raised cosine EQ, gain, delay (≤2 s), polarity and mute Very comprehensive processing supporting loudspeaker profiles including  • 2048 tap FIR, 24 biquads  • Dynamic EQ					
		m and thermal limit	ers with side chai	ns		
Startup time with PoE+	<1 s					
Audio performance						
THD+N (1000 Hz, at 1 dB below max output)	<0.05%					
THD+N (20 - 20000 Hz for 1 W)	<0.05%					
Frequency response	+/-0.5 dB (20 - 20000 Hz, 8 ohm, unweighted)					
Channel separation (crosstalk at 1 kHz)	>70 dB					
Dynamic range	117 dB					
Back panel interface						
Control and monitoring IO	Mute all channe	els (input), Health (c	utput), Sleep mod	de status (output).	Sleep mode (input	
Programmable GPIO	4 logic/voltage control pins, defined using Tesira software					
Analog input connectors		3-pin terminal block connectors with 0.15" (3.81 mm) pitch				
Output connectors	2-pin terminal block connectors rated for 41 Arms. Can take up to 8 mm <sup>2</sup> (8.2 AWG) cables					
Detachable mains connector	3-pin IEC C14 inlet for C13 cables					
Front panel interface	•	Tamper proof design				
NFC status reading	Extensive status and network information can be read with a phone via NFC					
<u> </u>	Bi-directional locate funtionality					
Locate		•	areater custom			
System status indicator	Shows if there are faults within the greater system					
Device status indicators	Status, activity and faults					
Channel status indicators	Mute, signal, lim	nit and temp				
Power and environmental						
Cooling	Variable speed	fans, front to back a	airflow			
Operating temperature	32-104F (0-40C)					
Relative humidity	0-95% non-condensing altitude 0 - 2000 m (0-6562 ft)					
Nominal Voltage	100-240 VAC, 5	_				
Mechanical	-, -					
HxWxD (rack rail to rear panel)	1.7 x 17.5 x 16.9 i	nches (44 x 444 x	430 mm)			

Included accessories

Rear support kit for 19" 1 RU mount

The power ratings for 2.7 ohm are reduced to guarantee that the same voltage can be delivered in impedance dips that are 25% lower. As an example: 1200 W into 2.7 ohm is 80 Vpk, which into impedance dips of 2 ohm (75% of 2.7 ohm) resulting in extremes with 40 Apk and a burst power of 1600 W.

1.7 x 17.5 x 16.9 inches (44 x 444 x 430 mm)

16.8 lbs (7.6 kg) 17 lbs (7.7 kg) 17 lbs (7.7 kg)

The power figures are measured using a 25 ms burst repeated every 400 ms with a sustained average at 1/8th power (i.e. a 12 dB crest factor)

Biamp strives to improve its products on a continual basis. Specifications are therefore subject to change without notice.

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Weight

HxWxD (rack rail to rear panel)

17.2 lbs (7.8 kg)

17 lbs (7.7 kg)