DigiMod 1000

High Efficiency 2-Channel Class-D Amplifier Module for Professional Applications



DigiMod 1000 is a class-D amplifier module delivering up to 1000 W, and capable of driving an additional 2-channel output stage (DigiMod 1000NPS) to cover a wide range of applications, from small/medium subwoofers to 2-way monitors, as well as 3-way systems.

Specifically designed DSP boards with advanced processing, remote control and networking capabilities are available for DigiMod 1000, to perfectly fit with the amplifier and providing a complete solution in a compact package.

- Small/Mid Power Single and Double Drive Subwoofers
- ► Small/Mid Power 2-way Stage Monitors
- ▶ Mid 3-way Cabinet / Line Array*
- ► Small Power Sub+Satellite Systems*
- ► Small Power Active Mixers
- ► Small Power 2-way Single Cabinet / Line Array
- ► High Power Studio Monitors

*when used with DigiMod 1000NPS



► Thermal protections (power limiting - thermal shutdown)

- Short-circuit/overload/high frequency output protections
- ► Clip limiter, permanent signal limiter
- ► Auxiliary output voltages
- Bypass line outputs for external active/passive filters
- ▶ Mute command
- ► Temperature controlled internal fans and output
- ► Optional DSP boards
- ► Fully integrated in Armonía Pro Audio Suite[™] for Monitoring, Remote Control & Networking with optional DSP board



















Single subwoofer	1000 W @ 8 Ω BTL
2-way unbalanced load	LF: 500 W @ 4 Ω SE MF/HF: 260 W @ 8 Ω SE
3-way unbalanced load with DigiMod 1000NPS	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Max output voltage per channel	72 V _{peak}

Premium Performance

✓ Powersoft class-D technology used in DigiMod modules is an industry standard in terms of quality, reliability, robustness and attention to detail. Accurate design of the Pulse Width Modulation block guarantees maximum performance, high predictability and immunity from intermodulation artifacts.

Modularity

✓ Same mechanical profile as all the DigiMod models, same input/ output and DSP interface connectors allowing easy integration of different models to build a complete range of products.

Scalability

- ✓ Plug an additional 2-channel amplifier (DigiMod 1000NPS) to extend the range of possible applications using 4 output channels, (both pairs bridgeable) to drive 3-way systems or high power 2-ways systems even at higher load impedances.
- Powerful and flexible signal processing tools
 - ✓ Compatible with third party DSP and all Powersoft DSP solutions: together with Armonía Pro Audio Suite™ you can tailor the module's behavior to fit your design: from standard Linkwitz-Riley crossovers to FIR filters, from limiters to delays and everything in between.
- Complete set of protections
 - Powersoft amp modules are equipped with extensive protection circuitry: power limiters, thermal shutdown, short circuit and overload, clip limiter.
- Certification process made easy
 - ✓ Powersoft provides EMI/safety certifications, reports and documentation that will effectively cut certification costs on the final product.
- Compact
 - ✓ Power supply, output stage, DSP and connectors are all included in a single, compact, lightweight and protected chassis



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Specifications

DIM100

Slew rate

Damping factor @ 8Ω

General			AC Mains Power				
Number of channels		2 in / 2 out	Power supply		Universal, regulated switch mode		
Output power			Nominal power requirement		AC 100 V - 240 V, 50/60 Hz		
Maximum output power per channel @ 4 Ω		500 W	Operating voltage		AC 90 - 264 V		
Maximum output power per channel @ 8 Ω		260 W	Power factor		$\cos \varphi > 0.85 \ @ 4 \ \Omega$ full power		
Maximum output power @ 8 Ω Bridge	d	1000 W	Consumption				
Maximum output power @ 10 Bridged		520 W	1/8 of max output power @ 8 Ω 178 VA			178 VA	
Maximum output power @ 10 12 Bridg	eu	520 W					
Max output voltage		72 V _{peak}	AUX supplies				
Max output current		28 A _{peak}	Max aux supply current draw @ ±12 V		200 mA		
Audio			Thermal				
Gain	32 dB (x40 voltage gain)		Environmental operating temperature	0° - 40° C / 32° - 104° F			
Frequency response	10 Hz - 20 kHz (± 3 dB) @ 1 W, 8 Ω		·				
S/N ratio	112 dB (A waighted)		Thermal dissipation	Fan, vari	an, variable speed, temperature controlled		
Input sensitivity @ 8Ω	1.12 V / 3.2 dBu				@ 230 V		
Max input level	4	.36 V / 15 dBu	I/8 of max power @ 4 Ω	150 I	BTU/h	38 kcal/h	
Input impedance	10 kΩ balanced		I/4 of max power @ 4 Ω	246 BTU/h		62 kcal/h	
THD+N		rom 0.1 W to full power pically <0.01%)	P				

Construction

Weight

Dimensions (L x W x H)

Application Examples

Please note that the following configuration examples do not cover all possible applications.

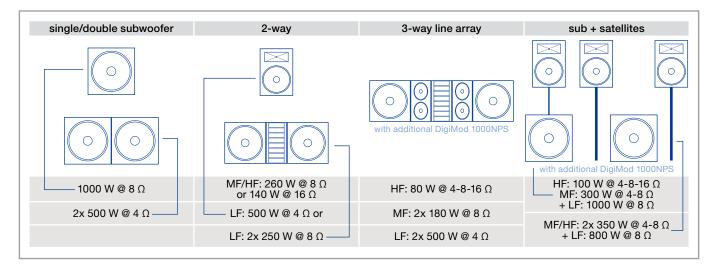
< 0.02% from 0.1 W to full power

(typically <0.005%)

50 V/ μ s @ 8 Ω , input filter bypassed

> 500 @ 100 Hz

Power ratings could vary depending on acoustic design and speaker specifications. Contact Powersoft for support in selecting the ideal solution for your specific needs.





216 mm x 122 mm x 69 mm 8.5" x 4.8" x 2.71"

1 kg (2.2 lb)