DigiMod 3000PFCHigh Efficiency 2/4/6-Channel Class-D Amplifier Platform for Professional Applications



DigiMod 3000PFC is a high-power modular amplifier platform capable of delivering up to 4000 W to a max of 6 output channels.

The power supply and 2-channel amplifier are available both as separated units and integrated in a single, compact chassis, for maximum mechanichal flexibility.

Solid and consistent performances worldwide and clean output signal in all operating conditions are achieved thanks to the 4th generation PFC and fixed frequency PWM design.

Unsurpassed power capabilities, together with sound clarity and flexibility make the DigiMod 3000PFC perfect for powering top level line arrays, powerful subwoofers and high performances multi-channel applications.

- ► High Power Single or Double Subwoofer
- ► High Power 2-way Cabinet / Line Arrays
- ▶ Very High Power Double Subwoofer*
- ▶ Very High Power multi-way Cabinet / Line Arrays*
- Multi-Channel High Power Applications* (up to 6-channel configurations)
- ► High Power Sub+Satellite systems*

*when used with additional DigiMod 3000PFC AMP



DigiMod 3000PFC PS + 2 DigiMod 3000PFC AMP

- ► 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	3400 W @8Ω BTL
2-way unbalanced load	LF: $1700 \text{ W } @4\Omega \text{ SE}$ MF/HF: $1100 \text{ W } @8\Omega \text{ SE}$
3-way unbalanced load with additional DigiMod 3000PFC AMP	LF: 2x 1500 W @ 4Ω SE MF: 2x 500 W @ 8Ω PA HF: 380 W @ 8Ω SE
Max output voltage per channel	135 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 form factor 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.
- Reliable efficiency
 - The power supply implements Power Factor Correction that guarantees clean power absorption from the mains and improves overall reliability and efficiency.
- 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
 - ✓ Output stage, DSP and connectors are all included in a single, compact, lightweight and protected chassis



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Specifications

General			AC Mains Power				
Number of channels		see "Configurations" table	Power supply		Universal, regulated switch mode wit PFC (power factor correction)		
Output power			Nominal power requirement		AC 100 V - 240 V, 50/60 Hz		
Maximum output power per channel	output power per channel @ 4 Ω		Operating voltage		AC 90 - 264 V		
Maximum output power per channel @ 8 Ω		1100 W	Power factor		$\cos \varphi > 0.75$ @ 4 Ω full power		
Maximum output power per channel @ 16 Ω		600 W	Consumption				
Maximum output power @ 8 Ω Bridged		3400 W	1/8 of max output power @	8 Ω	600 VA		
Maximum output power @ 16 Ω Bridged		2200 W					
· ·	3 · ·		AUX supplies				
Max output voltage		135 V _{peak}	Max aux supply current draw @ ±12 V		200 mA		
Max output current		52 A _{peak}					
0			Thermal				
Configurations DigiMod 3000PFC SU		2 in / 2 out	Environmental operating temperature	0° - 40° C / 32° - 104° F			
DigiMod 3000PFC SU + DigiMod 300	00PFC AMP	2 in / 4 out	Thermal dissipation	Fan, variable speed, temperature controlled			
9		2 in / 6 out	mar dissipation	@ 230 V			
0		2 in / 2 out	I/8 of max power @ 4 Ω			117 kcal/h	
3		2 in / 4 out	· ·	246 BTU/h 850 kcal/h			
3			I/4 of max power @ 4 Ω	246 810	246 BTO/n 850 KCal/n		
Audio			Construction				
Gain	38 dB	(x80 voltage gain)	DigiMod 3000PFC SU				
Frequency response		kHz (±3 dB) @ 1 W, 8 Ω	Dimensions (L x W x H)		309 mm x 122 mm x 79 mm 12.2" x 4.8" x 3.1"		
S/N ratio	112 dB (A waighted)		Weight		2.27 kg (5 lb)		
Crosstalk separation	-70 dB @ 1 kHz (4 Ω)		DigiMod 3000PFC PS		g (0	,	
Input sensitivity @ 8Ω	1.04 V / 2.5 dBu		0		216 mm x 122 mm x 79 mm		
Max input level	4.36 V / +15 dBu		Dimensions (L x W x H)		8.5" x 4.8" x 3.1"		
Input impedance	10 kΩ balanced		Weight		1.53 kg (3.4 lb)		
THD+N	< 0.05% from 0.1 W to full power (typically <0.01%)		DigiMod 3000PFC AMP				
DIM100		om 0.1 W to full power ically <0.005%)	Dimensions (L x W x H)	140 mm x 122 mm x 79 mm 5.5" x 4.8" x 3.1"			
	(1) P	,	Weight		0.8 kg (1.7	s IP/	

Application Examples

Slew rate Damping factor

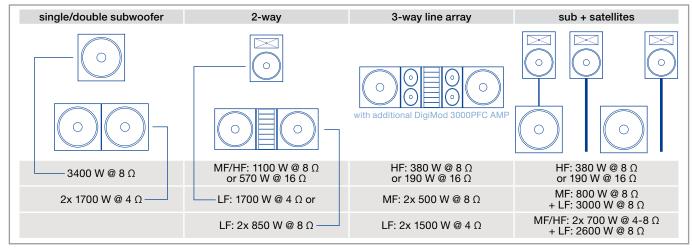
Please note that the following configuration examples do not cover all possible applications.

50 V/μs @ 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.

Weight





0.8 kg (1.76 lb)