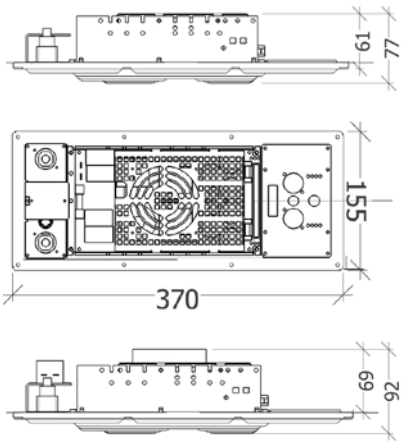
DigiMod IS Series

Integrated Solutions With 2-Channel Amplifier Module And DSP For Professional Applications

DigiMod IS Series consists in three plug'n'play solutions providing all the power and the quality of DigiMod amps on an elegant aluminum heatsink plate, equipped with interface panel and connection to mains. Available for three different DigiMod amplifiers and including a DSP board for easy and powerful processing, the **DigiMod IS Series** represent a turnkey solution to develop, with dramatically reduced time-to-market, an entire line of products, from single or double subwoofers to wedges and line array elements.

- Small [1], Mid [2], High Power [3] double subwoofer
- Small [1], Mid [2], High Power [3] Single Subwoofer
- Small [1], Mid [2], High Power [3] 2-way stage monitor
- Small [1], Mid [2], High Power [3] 2-way Single Cabinet / Line Array
- High Power Studio Monitors [1]

- Thermal protections (Power limiting - Thermal shutdown)
- Short-circuit/overload/high frequency output protections
- Clip limiter, Permanent signal limiter
- Bypass line outputs for external active/ passive filters
- Temperature controlled internal Fan and output
- DSP board included
- Fully integrated in Armonia for Monitoring, Remote Control & Networking with optional DSP board



FIXED switching frequency

AUTO mains selection optional

DSP add-on

	Load	DigiMod 1000 IS	DigiMod 1500 IS	DigiMod 2000HV IS
single-ended mode	4 Ω	500 W	750 W	—
	8 Ω	260 W	370 W	1,050 W
	16 Ω	130 W	190 W	570 W
mono-bridged mode	8 Ω	1,000 W	1, 500 W	2,100 W
	16 Ω	520 W	740 W	1,140 W
Max output voltage*	peak	72 V	92 V	129 V
	RMS	51 V	56 V	91 V

* single channel

EIAJ Test Standard, 1 kHz, 1% THD

✓ **Premium Performances:**
- 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.

✓ **Drastically reduced time-to-market:**
- all you need to quickly develop the product you have in mind – DigiMod IS represents a plug'n'play solution complete with aluminum die-cast chassis, interface panel with DSP presets selection and LEDs, powercon in and out mains connection.

✓ **Powerful and flexible signal processing tools:**
- using SigmaDSP based processing boards 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. Your speakers will be protected and your product will sound great!

✓ **Complete set of protections:**
- Powersoft amp modules are equipped with extensive protection circuitry: power limiters, thermal sutdown, short circuit and overload, clip limiter.

✓ **Forget mains voltage selection:**
- now all DigiMod modules can be equipped with an automatic mains voltage selector for world wide operation of all your products; no more worries about stocking different versions of the same cabinet.

✓ **Certification process made easy:**
- by providing EMI/safety certifications, reports and documentation that will effectively cut certification costs on the final product.

C US 235696 CE CB CB Certification

1) DigiMod 1000IS 2) DigiMod1500 IS 3) DigiMod 2000HV IS

DigiMod IS

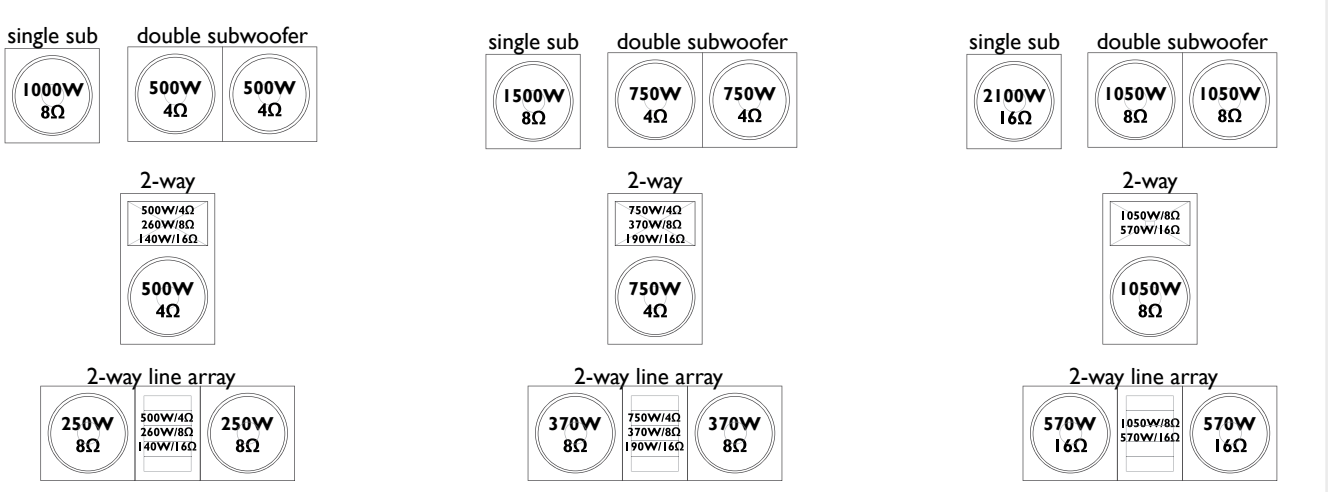
Integrated Solutions With 2-Channel Amplifier Module And DSP For Professional Applications

Specifications [1]

General												
	Number of channels	2 ins - 2 outs										
	Output power	2-channel mode								mono-bridged mode		
	EIAJ Test Standard, 1 kHz, 1% THD	4 Ω / Ch			8 Ω / Ch			16 Ω / Ch			8 Ω / Ch pair	
		500 W	750 W	--	260 W	370 W	1050 W	130 W	190 W	570 W	1000 W	1500 W	2100 W
	Max output voltage	72 V_{peak} (51 V_{RMS})			92 V_{peak} (56 V_{RMS})					129 V_{peak} (91 V_{RMS})		
	Max output current	28 A_{peak} (20 A_{RMS})			35 A_{peak} (25 A_{RMS})					35 V_{peak} (25 V_{RMS})		
	Max aux supply current draw	200 mA										
AC Mains Power												
	Power requirements (selectable voltage range, 1/8 max output power)	AC 195 V - 250 V, 50/60Hz, I nom = 1.6 A_{RMS} AC 95 V - 125 V, 50/60Hz, I nom = 3.2 A_{RMS}			AC 195 V - 250 V, 50/60Hz, I nom = 2.2 A_{RMS} AC 95 V - 125 V, 50/60Hz, I nom = 3.6 A_{RMS}					AC 195 V - 250 V, 50/60Hz, I nom = 2.9 A_{RMS} AC 95 V - 125 V, 50/60Hz, I nom = 5.5 A_{RMS}			
	Efficiency	> 85% (typical)			> 85% (typical)					> 80% (typical)		
	Power consumption											
	1/8 of max power @ 8 Ω bridged	178 VA			270 VA					410 VA		
Thermal												
	Max environmental operating temperature	40° C										
	Thermal dissipation	Fan, variable speed, temperature controlled										
		230 V										
	1/8 of max output power @ 4 Ω	150 BTU/h		38 kcal/h		213 BTU/h			54 kcal/h	282 BTU/h		71 kcal/h
	1/4 of max output power @ 4 Ω	246 BTU/h		62 kcal/h		403 BTU/h			102 kcal/h	464 BTU/h		117 kcal/h
Audio												
	Gain	32 dB			32 dB					38 dB		
	Voltage gain	x 40			x 40					x 80		
	Frequency response	10 Hz - 25kHz (± 3dB) for 1 W @ 8 Ω										
	S/N ratio (amplifier section)	> 112 dBA (20 Hz - 20 kHz, A weighted)										
	Crosstalk separation	> 70 dB @ 1 kHz										
	Input sensitivity @ 8 Ω	1.12 V / 3.2 dBu			1.38 V / 5.02 dBu					1.15 V / 3.43 dBU		
	Max input level	15 dBu										
	Input impedance	10 KΩ balanced										
	THD+N / SMPTE IMD [1]	< 0.05% from 0.1 W to full power (typically <0.01%)										
	DIM100 IMD [1]	< 0.02% from 0.1 W to full power (typically <0.005%)										
	Slew rate [1]	50 V/µs @ 8 Ω, input filter bypassed										
	Damping factor [1]	> 500 @ 100 Hz										
	Output type	unbalanced to ground										
DSP & Networking (optional board)												
	Connector	72-pin SIMM connector (DSP-C and DSP- 4 compatible)										
	Configuration	Configurable with Sigma Studio™ or predefined layout										
	Remote control	Fully supported by Powersoft Armonía™ Pro Audio Control Suite										
Construction												
	Dimensions	370 mm x 155 mm x 77 mm (14.6 " x 6.1 " x 3 ")			370 mm x 155 mm x 92 mm (14.6 " x 16.1 " x 3.6 ")					370 mm x 155 mm x 92 mm (3.9" x 13 " x 3.6 ")		
	Weight	1.15 kg (2.5 lb)										

Application Examples

Please note that the following configuration examples do not cover all possible applications.
Power ratings could vary depending on acoustic design and speaker specifications. Contact Powersoft for support in selecting the ideal solution for your specific needs.



1) Values refer to DigiMod 1000 IS, DigiMod 1500 IS and DigiMod 2000 HV respectively
2) Guaranteed by design

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