

# DigiMod 1000NPS

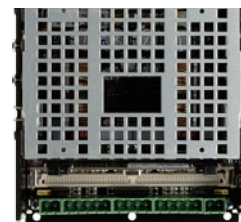
2-Channel Class-D Additional Output Stage for DigiMod 500 and DigiMod 1000



DigiMod 1000NPS is the exact replica of the DigiMod 1000 output stage (2-channel bridgeable, 2x 500 W on 4  $\Omega$ , 1000 W on 8  $\Omega$ ), which can be used in combination with DigiMod 500 or DigiMod 1000 to extend the range of possible multi-channel configurations.

Compact and lightweight, the DigiMod 1000NPS can be easily integrated thanks to a flexible connection allowing to place the additional module in the most appropriate position inside the cabinet.

With the 4-out DSP board designed by Powersoft, able to store 4 presets, the whole system can be processed with a single board, allowing high flexibility and easy operation to the end user.



**FIXED**  
switching  
frequency

**DSP**  
add-on

**Armonía**  
Pro Audio Suite™

|   |  |                |
|---|--|----------------|
| Balanced load with DigiMod 1000         | 2x 700 W @ 8 $\Omega$  | BTL            |
| Unbalanced load with DigiMod 500        | LF: 1000 W @ 8 $\Omega$<br>MF/HF: 400 W @ 4 $\Omega$                                 | BTL<br>SE      |
| 3-way unbalanced load with DigiMod 1000 | LF: 2x 500 W @ 4 $\Omega$<br>MF: 2x 180 W @ 8 $\Omega$<br>HF: 80 W @ 4-8-16 $\Omega$ | SE<br>PA<br>SE |
| Max output voltage per channel          | 72 V <sub>peak</sub>   |                |

- ▶ Mid to High Power 3-way Cabinet\*
- ▶ Mid to High Power 3-way Stage Monitor\*
- ▶ Small to Medium Power Sub+Satellite System\*
- ▶ High Power 3-way Studio Monitor\*

\*when used with DigiMod 1000 or DigiMod 500



DigiMod 1000  
DigiMod 500

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
- ▶ Optional DSP boards
- ▶ Fully integrated in Armonía Pro Audio Suite™ for Monitoring, Remote Control & Networking with optional DSP board

- ▶ 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
  - ✓ By adding DigiMod 1000NPS to one of the compatible 1 or 2-channel amplifier modules – DigiMod 500 and DigiMod 1000 – you can use up to 4 channel to drive 3-way systems or 2-ways systems with more power and flexibility.
- ▶ 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.



# DigiMod 1000NPS

2-Channel Class-D Additional Output Stage for DigiMod 500 and DigiMod 1000

## Specifications

### General

|   |                      |
|---|----------------------|
| Number of channels                            | 2 in / 2 out         |
| Output power                                  |                      |
| Maximum output power per channel @ 4 $\Omega$ | 500 W                |
| Maximum output power per channel @ 8 $\Omega$ | 260 W                |
| Maximum output power @ 8 $\Omega$ Bridged     | 1000 W               |
| Maximum output power @ 16 $\Omega$ Bridged    | 520 W                |
| Max output voltage                            | 72 V <sub>peak</sub> |
| Max output current                            | 28 A <sub>peak</sub> |

### Audio

|                                |  |
|--------------------------------|--|
| Gain                           | 32 dB (x40 voltage gain)                             |
| Frequency response             | 10 Hz - 20 kHz ( $\pm 3$ dB ) @ 1 W, 8 $\Omega$      |
| S/N ratio                      | 112 dB (A weighted)                                  |
| Input sensitivity @ 8 $\Omega$ | 1.12 V / 3.2 dBu                                     |
| Max input level                | 4.36 V / 15 dBu                                      |
| Input impedance                | 10 k $\Omega$ balanced                               |
| THD+N                          | < 0.05% from 0.1 W to full power (typically <0.01%)  |
| DIM100                         | < 0.02% from 0.1 W to full power (typically <0.005%) |
| Slew rate                      | 50 V/ $\mu$ s @ 8 $\Omega$ , input filter bypassed   |
| Damping factor @ 8 $\Omega$    | > 500 @ 100 Hz                                       |

### AC Mains Power

|                                      |  |
|--------------------------------------|--|
| Power supply                         | Powered by either the DigiMod 1000 or the DigiMod 500 power supply |
| Consumption                          |  |
| 1/8 of max output power @ 8 $\Omega$ | 265 VA when used with DigiMod 500                                  |

### AUX supplies

|  |        |
|--|--------|
| Max aux supply current draw @ $\pm 12$ V | 200 mA |
|--|--------|

### Thermal

|                                     |   |  |           |
|-------------------------------------|---|--|-----------|
| Environmental operating temperature | 0° - 40° C / 32° - 104° F                                   |  |           |
| Thermal dissipation                 | Passive<br>(optional temperature controlled fan)<br>@ 230 V |  |           |
| 1/8 of max power @ 4 Ω              | 150 BTU/h   |  | 38 kcal/h |
| 1/4 of max power @ 4 Ω              | 246 BTU/h   |  | 62 kcal/h |

### Construction

|                        |  |
|------------------------|--|
| Dimensions (L x W x H) | 140 mm x 122 mm x 69 mm<br>5.5" x 4.8" x 2.71" |
| Weight                 | 0.6 kg (1.32 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.

