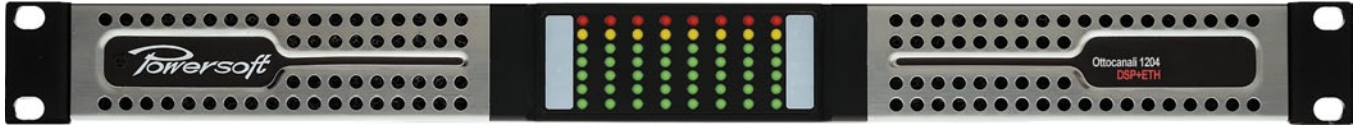


Ottocanali I204 DSP+ETH



8-Channel Power Amplifier with DSP and Ethernet for Lo-Z & Hi-Z Installations



- Touring
- Installation

8 lo-Z
hi-Z
channels



DSP
on board



- ▶ Multi-zone venues, incl. smaller rooms in large scale installations
- ▶ Emergency systems (IEC 60849)
- ▶ Themed entertainment, amusement parks, shopping malls
- ▶ Cruise ships
- ▶ AV systems, board rooms
- ▶ Houses of worship
- ▶ Theaters, auditoriums
- ▶ Conference & learning centers
- ▶ Hotels, restaurants, bars

Ultimately flexible and safe, with a wide range of system control and monitoring capabilities as well as sound shaping options, and a total of up to 1,200 W output power over 8 amplifier channels for lo-Z or distributed line systems, all neatly packed into a single rack unit. As 'stand-alone' in corporate board rooms, or along with Powersoft Duecanali models in the largest setups, the **Ottocanali I204 DSP+ETH** fits any venue.

Powersoft's legendary efficiency saves space and - more importantly - valuable energy, keeping both operational cost and 'carbon footprint' at a minimum. Ancillary technologies, such as the integrated DSP platform and the super-compact BatFormers®¹⁾, both developed specifically for the **Ottocanali I204 DSP+ETH**, add immense practical value during system design, installation and use, resulting in substantial savings at any level.

Compliant with IEC 60849, and on par with the Duecanali Series, the **Ottocanali I204 DSP+ETH** matches the stringent requirements for sound systems for emergency purposes.

The **Ottocanali I204 DSP+ETH** is unprecedented in combining efficiency, performance and adaptability.

8-channel mode				mono-bridged mode	
4 Ω / Ch	8 Ω / Ch	70 V ¹⁾	100 V ¹⁾	8 Ω / Ch pair	16 Ω / Ch pair
150 W	80 W	125 W	130 W	300 W	150 W

1) With BatFormer® inserted per channel.

EIAJ Test Standard, 1 kHz, 1% THD

- ✓ **Legendary Powersoft efficiency:**
 - ▶ Green Audio Power®: minimal 'carbon footprint' and operational cost of electricity (Energy Star qualification pending); additional 'Energy Save' function
 - ▶ Compact and space saving: 1 RU, and standard depth 360 mm / 14.2"
- ✓ **Driving low impedance and distributed line¹⁾ systems:**
 - ▶ Through a dedicated lid, optional BatFormers® can be plugged anytime into any channel to enable 70V or 100V outputs including galvanic isolation; mixed lo-Z/hi-Z systems possible
 - ▶ BatFormers are highly efficient: only 1/3 of the size of a regular comparable transformer, yet delivering outstanding audio performance
 - ▶ Up to 55 different output configurations possible
- ✓ **Ready for voice evacuation systems in compliance with IEC 60849:**
 - ▶ Auxiliary signal inputs, enabled remotely or locally
 - ▶ I/O signal integrity monitoring for lo-Z/hi-Z
 - ▶ Fault alarm relay output
- ✓ **Top-grade DSP on board:**
 - ▶ Dual 24-bit A/D & D/A with high dynamic range and 1 ms fixed latency; separate input/output EQ's with numerous filters of various types up to 48 dB/oct; peak, RMS, and frequency dependent limiters, time alignment
 - ▶ Comprehensive system/load monitoring
- ✓ **Direct PC/network connection:**
 - ▶ Ethernet interface for system setup, monitoring and control
 - ▶ Fully manageable via Armonia Pro Audio Suite™ software
 - ▶ On the same network as all other Powersoft amplifiers
- ✓ **Channel output pairs mono-bridgeable (lo-Z), or in parallel (hi-Z)**
- ✓ **Unique Powersoft technology for efficient, reliable, great sounding performance:**
 - ▶ Universal switch mode power supply with PFC (Power Factor Correction)
 - ▶ Fixed frequency switch mode amplifier output stages
 - ▶ Patented amplifier output filters with ripple cancellation network
- ✓ Front panel safety cover hiding output attenuators and 'Energy Save' switch
- ✓ All signal/control connectors Phoenix industry standard
- ✓ Front-to-rear airflow cooling with variable speed fan, temperature controlled
- ✓ Full protection circuitry: over/under AC voltage; severe signals (clipping, VHF, long-term RMS); DC; over-temperature; short circuit; mute at power on/off
- ✓ Also available without DSP and Ethernet port (Ottocanali I204)
- ✓ Full four years warranty



BatFormer¹⁾



Ottocanali, partially equipped with BatFormers

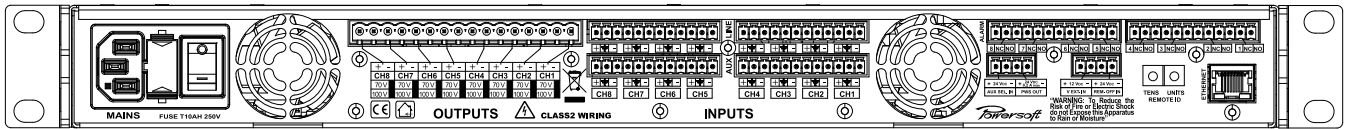
1) BatFormers are optional, and can be retrofitted anytime.



Ottocanali I204 DSP+ETH



8-Channel Power Amplifier with DSP and Ethernet for Lo-Z & Hi-Z Installations



Specifications

General	
Number of channels	8
Output power	Mono-bridgeable per channel pair. Optional BatFormers® (transformers) per channel for 70 V or 100 V constant voltage operation; serial operation of channel pairs equipped with BatFormers for higher voltage possible.
EIAJ Test Standard, 1 kHz, 1% THD	8-channel mode
	mono-bridged mode
	4 Ω / Ch 8 Ω / Ch 70 V ¹⁾ 100 V ¹⁾ 8 Ω / Ch pair 16 Ω / Ch pair
Max output voltage	37 V _{peak} 80 W 125 W 130 W 300 W 150 W
Max output current	15 A _{peak} 77 V _{peak} 151 V _{peak} 76 V _{peak}
	4.8 A _{peak} 3.4 A _{peak} 15 A _{peak}
AC Mains Power	
Power supply	Universal, regulated switch mode with PFC (Power Factor Correction)
Operating voltage / Inrush current	100 V - 240 V ± 10%, 50/60 Hz / < 5 A _{RMS}
Power factor cos (φ)	> 0.8 when > 500 W
Consumption / current draw	@ 230 V @ 115 V
Energy Save on	14.6 W 0.34 A 13.9 W 0.26 A
Energy Save off	21.2 W 0.36 A 20 W 0.33 A
1/8 of max power @ 4 Ω	223 W 1.24 A 224 W 1.99 A
1/4 of max power @ 4 Ω	417 W 2.00 A 423 W 3.70 A
Thermal	
Environmental operating temperature	0° - 45° C / 32° - 113° F
Thermal dissipation	Fan, continuously variable speed, temperature controlled front to rear airflow
	230 V 115 V
Energy Save on	31.71 BTU/h 8.00 kcal/h 29.66 BTU/h 7.48 kcal/h
Energy Save off	53.20 BTU/h 13.42 kcal/h 50.12 BTU/h 12.64 kcal/h
1/8 of max output power @ 4 Ω	248.93 BTU/h 62.78 kcal/h 252.34 BTU/h 63.64 kcal/h
1/4 of max output power @ 4 Ω	398.97 BTU/h 100.62 kcal/h 419.41 BTU/h 105.78 kcal/h
Audio	
Gain	lo-Z hi-Z @ 70 V hi-Z @ 100 V
	32 dB 41 dB 44 dB
Frequency response	20 Hz - 19.5 kHz 57 Hz - 16 kHz 57 Hz - 15.5 kHz
S/N ratio (amplifier section)	> 92 dBA > 92 dBA > 92 dBA
Crosstalk separation	> 61 dB > 61 dB > 61 dB
Input sensitivity @ 8 Ω	20 Hz - 20 kHz (1 W @ 8 Ω ± 0.5 dB, or 32/65 W @ 70/100 V, ± 2.5 dB)
Max input level	0.63 V / -1.79 dBu
Input impedance	10 kΩ balanced
THD+N / SMPTE IMD / DIM100 IMD	typ. < 0.05% ²⁾
Slew rate	12 V/μs @ 8 Ω, input filter bypassed
Damping factor	> 500 @ 20-200 Hz (lo-Z)
DSP	
AD/DA converters	AD: 24bit/48kHz 100dB SNR, THD < 0.02% (20 Hz - 20 kHz); DA: 24bit/48kHz 102dB SNR, THD < 0.02% (20 Hz - 20 kHz)
Delay for time alignment	up to 16 ms per output
Crossover filters	Butterworth, Linkwitz-Riley, Bessel, 6-48 dB/oct
Input/Output equalizer	5 (input) / 8 (output) filters max (filter types: parametric, hi/lo shelving, hi/lo pass, band pass, band stop, all pass)
Limiters	Peak, RMS
Pilot Tone Detection and Output Load Monitor	
Input voltage and frequency	0 V _{RMS} - 1 V _{RMS} in steps of 10 mV _{RMS} ; 20 Hz - 22 kHz in steps of 10 Hz
Output voltage and frequency	0 V _{RMS} - 30 V _{RMS} in steps of 10 mV _{RMS} ; 20 Hz - 22 kHz in steps of 10 Hz
Output load impedance	0 Ω - 1000 Ω in steps of 0.1 Ω
Front Panel	
Indicators	7 multifunction LEDs per channel: 4 x green, 2 x yellow, 1 x red
Controls	Pushbutton enables 24 V DC at back PWS OUT connector (can also toggle LINE/AUX inputs), 8 output attenuators, energy save mode activation (per channel pair) DIP switch, DSP preset selection
Maintenance	Dust filter foam behind frontal silver colored panels
Rear Panel	
Audio signal input connectors	2 x 12 pin Phoenix MC 1.5/12-ST-3.81 1803675
Loudspeaker output connectors	16 pin Phoenix MSTB 2.5/16-ST-5.08 1757158
Fault alarm connectors	12 pin Phoenix MC 1.5/12-ST-3.81 1803675
Aux command (triggering aux inputs) and aux voltage for remote on/off switching	4 pin Phoenix MC 1.5/4-ST-3.81 1803594
Aux front switch enabling and external 24 V DC (0.2 A) auxiliary supply	4 pin Phoenix MC 1.5/4-ST-3.81 1803594
Network data port Ethernet	1 x RJ45 with activity LED with 2 rotary address switches
AC mains	IEC C13 16A connector, AC mains cord with 3-pin plug 15A for US, IEC Schuko 16A for every other nation
Construction	
Dimensions	W 483 mm / 19", H 44.45 mm / 1.75" / 1 RU, D 360 mm / 14.2"
Chassis	Steel safety/dust covers; 1 mm steel front panel, side reinforcement, rear support; 1 mm steel top & bottom lid, rear panel
Weight	5-11 kg / 11-24.3 lbs, depending on number of BatFormers installed

1) With BatFormer® inserted per channel.
2) Guaranteed by design.

Data is subject to change without notice.
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