

Ottocanali Series

8-Channel High-Performance Power Amplifier with optional DSP and Dante™
For Lo-Z & Hi-Z Installations



- ☐ Touring
- ☒ Installation

8 lo-Z
hi-Z
channels



DSP
optional



Armonía
Pro Audio Suite™



- Multi-zone venues
- Themed entertainment, amusement parks, shopping malls
- Cruise ships
- Stadiums, arenas, convention centers
- Houses of worship
- Theaters, auditoriums, concert halls
- Main systems, central or distributed, lo-Z/hi-Z

Even more flexible and reliable, the new Ottocanali Series includes three models namely the **Ottocanali 4K4, 8K4 and 12K4** – available with optional DSP and Dante™ by Audinate® – up to a total of 12,000 W at 4 ohm, ideal for multi-zone applications in mid to large-scale installs.

Ottocanali implements two redundant universal switch mode power supplies with PFC and patented SRM (Smart Rails Management) technology that maximizes the efficiency.

Powersoft Ottocanali offers a wide range of system control and monitoring functions as well as sound shaping options; the DSP version offers extensive feature set:

- Flexible routing/mixing provided by the internal 8x8 input/output matrix, allows the user to mix and route analog and digital I/O.
- Input and output IIR, FIR, IIR+FIR equalizers and raised-cosine filters.
- Complete sets of limiters: peak, RMS voltage, RMS current, and TruePower™.
- Compensation of the speaker cable losses with Active DampingControl™ and LiveImpedance™ load monitoring
- Customizable input backup policy that allows to automatically switch input source in case of signal failure.
- Easy plug-and-play dual redundant Dante™ ports.

Practical and versatile, 8 channels for lo-Z or distributed line systems all neatly packed into a double rack unit:

- Directly drives any mixed configuration of low impedance loads and 70V/100V lines.
- Implements HPF filter to either 35 Hz or 70 Hz configurable per channel.
- GPIO, remote on/off switch and MAIN/AUX input selection.
- Dual redundant universal switch mode power supply with PFC (Power Factor Correction) ensure unparalleled system reliability.

Outstanding low power consumption and heat dissipation: the ideal main system in any venue where performance is priority.

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Specifications

Channel Handling		
Number of output channels	8 mono, bridgeable per ch. pair	2x 8 pin Phoenix DFK-PC 4/8-G-7,62
Number of input channels:		
Analog	8 Main Line	12 pin Phoenix MC 1.5/12-ST-3.81
	8 Aux	12 pin Phoenix MC 1.5/12-ST-3.81
Digital*	16 Dante™	2x RJ45
Audio		
Gain	32 dB	
S/N ratio (amplifier section, 20 Hz - 20 kHz A weighted)	> 106 dB	
Output Noise A-Weighted @ 8 Ω - Analog to Analog / Digital to Analog	< -70.0 dBV	
Dynamic Range A-Weighted @ 8 Ω - Analog to Analog / Digital to Analog	114,3 dB	
Damping Factor @ 8 Ω, 100Hz	> 10000	
Slew Rate (input filter bypassed)	> 50 V/μs	
Frequency Response (±0.5 dB , 1 W @ 8 Ω)	20 Hz - 20 kHz	
Crosstalk (1 kHz)	-65 dB	
THD+N (from 0.1 W to Full Power)	< 0.08% (typical < 0.05%)	
DIM (from 0.1 W to Full Power)	< 0.8% (typical < 0.05%)	
Input Impedance	20 kΩ Balanced	
Maximum input level	6V/ +17.8 dBu	
DSP*		
PRELIMINARY		
Remote control	Complete user interface integrated into Armonia Pro Audio Suite™	
AD converters	24 Bit Tandem™ @ 96 kHz 129 dB Dynamic Range - 0.00056 % THD+N	
DA converters	24 Bit Tandem™ @ 192 kHz 121 dB Dynamic Range - 0.00084 % THD+N	
Sample rate converter	24 Bit @ 44.1 kHz to 192 kHz 140 dB Dynamic Range - 0.0001 % THD+N	
Internal precision	40 bit floating point	
Delay	2 s + 100 ms for time alignment	
Equalizer	Raised-cosine, custom FIR, parametric IIR: peaking, hi/lo-shelving, all-pass, band-pass, band-stop, hi/lo-pass	
Crossover	linear phase (FIR), hybrid (FIR-IIR), Butterworth, Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/oct (IIR)	
Limiters	TruePower™, RMS voltage, RMS current, Peak limiter	
Damping control	Active DampingControl™	

Output Stage		4K4	8K4	12K4
Input sensitivity @ 8 Ω load	@ max out power	1.2V / 3.8 dBu	—	1.94 V / 8 dBu
	@ 1000W out power	—	1.6V / 6.3 dBu	1.6V / 6.3 dBu
Max output power per channel				
8 Ω		250 W	600 W	850 W
4 Ω		500 W	1000 W	1500 W
2 Ω		450 W	850 W	1000 W
Max output power in bridged mode (channel pair)				
8 Ω		1000 W	2000 W	3000 W
4 Ω		900 W	1700 W	2200 W
Max unclipped output voltage		65 V _{peak}	90 V _{peak}	90 V _{peak}
Max output current		15 A _{peak}	23 A _{peak}	23 A _{peak}
Hi-Z distributed lines @ 70V				
Max output power per channel		500 W	1000 W	1500 W
Max unclipped output voltage		100 V _{peak}	100 V _{peak}	100 V _{peak}
Hi-Z distributed lines @ 100V				
Max output power per channel		500 W	1000 W	1500 W
Max unclipped output voltage		140 V _{peak}	140 V _{peak}	140 V _{peak}
The power figure is calculated by driving and loading symmetrically all the channels: uneven loads allow to achieve highest performance.				
AC Mains Power				
Power supply		Redundant universal, regulated switch mode with PFC (Power Factor Correction)		
Nominal power requirements		100 - 240 V @ 50/60Hz		
Operating range		90 - 264 V		
Thermal				
Environmental operating temperature		0° - 45° C / 32° - 113° F		
Thermal dissipation		Fan variable speed, temperature controlled front to rear airflow		
Other				
Aux command (triggering aux inputs) and aux voltage for remote on/off switching				
Aux front switch enabling and external 24 V DC (0.2 A) auxiliary supply				
Construction				
Dimensions L x H x W		483 mm x 89 mm x 360 mm (19.0 in x 3.5 in x 14.2 in)		
Weight		14 ka (30.8 lb)		

* Available only on Ottocanali DSP version.

