

Ottocanali DSP+D Series

8-Channel Fixed Installation Amplifier Platform with DSP and Dante™



☐ TOURING
☒ INSTALLATION

8 LO-Z
HI-Z
CHANNELS

2U

ROUTING
CHANNEL

AUDIO
NETWORK

DSP
ON BOARD

SAFETY
RELIABILITY

SRM

PFC

Armonía+Plus
System Manager

Even more flexible and reliable, the new Ottocanali DSP+D Series offers a wide range of system control and monitoring functions as well as sound shaping options, a total of up to 12,000 W output power over 8 channels for lo-Z or distributed line systems all neatly packed into a double rack unit. As 'stand-alone' unit the Ottocanali DSP+D Series fits any venue.

Excellent sound quality and ample output power stem from Powersoft's unique approach to Class D amplification and DSP technology, making the Ottocanali DSP+D Series the ideal main system in any venue where performance is priority.

The in-built AC Protection intervenes when the AC Mains voltage is outside operating ranges by switching off the amplifier.

Further level of redundancy is guaranteed by the implementation of remotely switchable double inputs on each channel.

Powersoft's legendary efficiency saves valuable energy, keeping both operational cost and 'carbon footprint' at a minimum: the Ottocanali 12K4 shines with outstandingly low power consumption and heat dissipation; this dramatically reduces costs from the AC mains

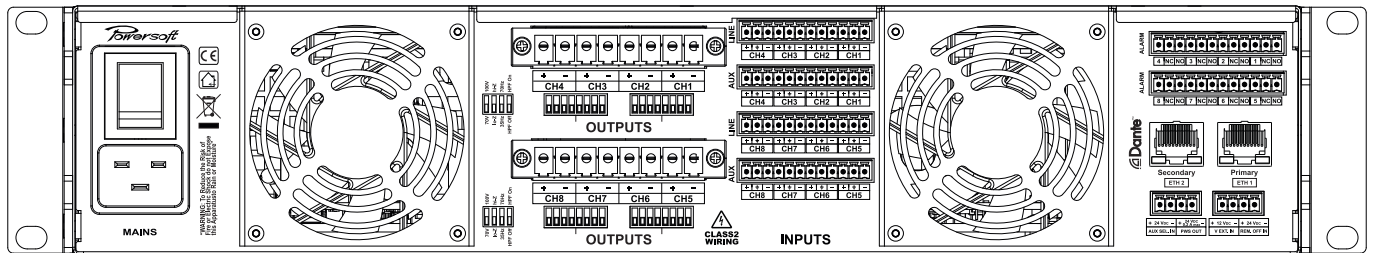
supply and air conditioning/cooling systems – not to mention the benefits to the environment for a greener planet.

- ▶ 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



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Specifications

Channel Handling		
Number of output channels	8 Hi-Z or Lo-Z (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
Input sensitivity @ 8 Ω		1.94 V/ +8 dB
Max input level		6V / +17.8 dBu
Frequency Response (±0.5 dB , 1 W @ 8 Ω)		20 Hz - 20 kHz
Crosstalk (1 kHz)		-65 dB
S/N (20 Hz - 20 kHz A-Weighted @ 8 Ω)		>106dB
Input impedance		20 kΩ Balanced
THD+N (from 0.1 W to Full Power)		< 0.08% (typical < 0.05%)
DIM (from 0.1 W to Full Power)		< 0.8%
Slew Rate (input filter bypassed @ 8 Ω)		> 50 V/μs
Damping Factor @ 8 Ω, 20 Hz - 100 Hz		> 1000
DSP		
AD converters	24 Bit Tandem™ @ 96 kHz 129 dB-A Dynamic Range - 0.00056 % THD+N	
DA converters	24 Bit Tandem™ @ 96 kHz 121 dB-A 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 (input) + 100 ms (output) 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™	
Networking		
Standards compliance	auto-sensing Fast Ethernet (IEEE 802.3u, 100 Mbit/s)	
Supported topologies	Star, Daisy Chain, Looped Daisy Chains, Redundant Star	
Remote interface	ArmoniaPlus™	
Construction		
Dimensions	483 x 89 x 360 mm 19.0 x 3.5 x 14.2 in	
Weight	14 Kg (30.8 lb)	

Output Stage	4K4	8K4	12K4
Maximum output power per channel @ 8 Ω	250 W	600 W	850 W
Maximum output power per channel @ 4 Ω	500 W	1000 W	1500 W
Maximum output power per channel @ 2 Ω	450 W	850 W	1000 W
Maximum output power @ 8 Ω Bridged (Channel Pair)	1000 W	2000 W	3000 W
Maximum output power @ 4 Ω Bridged (Channel Pair)	900 W	1700 W	2000 W
Maximum output power @ Hi-Z distributed line 100 V	500 W	1000 W	1500 W
Maximum output power @ Hi-Z distributed line 70 V	500 W	1000 W	1500 W
Maximum unclipped output voltage @ 8 Ω	65 V _{peak}	90 V _{peak}	116.6 V _{peak}
Maximum output current	15 A _{peak}	23 A _{peak}	45 A _{peak}

The power figure is calculated by driving and loading symmetrically all the channels: uneven loads allow to achieve higher performances.

AC Mains Power				
Power supply		Redundant Universal, regulated switch mode with PFC (Power Factor Correction)		
Nominal voltage (±10%)		100-240 V @ 50-60Hz		
Power factor (> 500 W ouput)		> 0.95		
Consumption/current draw		@ 115 V		@ 230 V
4K4	Idle	74 W	0.85 A	77 W 0.75 A
	1/8 Max Output Power @ 4 Ω	740 W	6.6 A	750 W 3.9 A
8K4	Idle	74 W	0.85 A	77 W 0.75 A
	1/8 Max Output Power @ 4 Ω	1425 W	12.6 A	1425 W 6.6 A
12K4	Idle	74 W	0.85 A	77 W 0.75 A
	1/8 Max Output Power @ 4 Ω	2075 W	18.5 A	2115 W 9.7 A
AC Mains connector		IEC C20 inlet (20 A max) region-specific power cord provided		

Thermal					
Operating temperature		0° - 35° C / 32° - 95° F			
Cooling		Fan, variable speed, temperature controlled, front to rear airflow			
Thermal dissipation		@ 115 V		@ 230 V	
4K4	Idle	253 BTU/h	64 kcal/h	263 BTU/h	66 kcal/h
	1/8 Max Output Power @ 4 Ω	801 BTU/h	202 kcal/h	839 BTU/h	211 kcal/h
	1/4 Max Output Power @ 4 Ω	1340 BTU/h	338 kcal/h	1340 BTU/h	338 kcal/h
8K4	Idle	253 BTU/h	64 kcal/h	263 BTU/h	66 kcal/h
	1/8 Max Output Power @ 4 Ω	1480 BTU/h	373 kcal/h	1504 BTU/h	379 kcal/h
	1/4 Max Output Power @ 4 Ω	2792 BTU/h	704 kcal/h	2722 BTU/h	686 kcal/h
12K4	Idle	253 BTU/h	64 kcal/h	263 BTU/h	66 kcal/h
	1/8 Max Output Power @ 4 Ω	2141 BTU/h	540 kcal/h	1937 BTU/h	488 kcal/h
	1/4 Max Output Power @ 4 Ω	4283 BTU/h	1080 kcal/h	3874 BTU/h	977 kcal/h

Data subject to change without notice.

