

Quattrocanali Series

4-Channel High-Performance Amplifier Platform



- Touring
- Installation

4 lo-Z
hi-Z
channels



Armonía
Pro Audio Suite™

The Quattrocanali Series is specifically designed for installation applications. In just 1 RU, Quattrocanali offers smaller dimensions, lighter weight and the traditionally amazing sound quality and reliability of all Powersoft products.

Quattrocanali Series amplifiers implement a high efficiency microprocessor controlled power supply with built in PFC (Power Factor Correction) that allows flawless worldwide operation with any AC mains voltage in the range 85-275 V_{AC} tolerant to peak up to 400 V. The patented SRM (Smart Rails Management)

technology allows to maximize the efficiency of the system and drastically reduce power consumption at any load and usage condition.

A secondary high efficient power supply is present to keep the system responsive at any operating condition, so that system check and monitoring can be performed even in stand-by and deep-sleep modes.

Quattrocanali Series is designed to work with lo-Z (from 2Ω) and with 70V/100V distributed lines: any mixed configuration of low and high impedance output loads can be realized.

Standard versions of the Quattrocanali Series offer remote control via Armonía over Master and Channel volume, making it the perfect tool for renovating already existing systems, as well as all other applications where DSP functions may be expandable.

- ▶ Small to medium-scale venues
- ▶ Main systems, central or distributed, subwoofers, hi-Z/lo-Z
- ▶ Mission critical applications
- ▶ Shops, stores
- ▶ Theatres, restaurant, and bars
- ▶ Houses of worship
- ▶ Convention centres
- ▶ Business centres
- ▶ Cruise ships

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Specifications

Channel Handling		
Number of output channels	4 Hi-Z or Lo-Z (bridgeable per ch. pair)	Phoenix PC 5/8-STF1-7,62
Number of input channels		
Analog	4	Phoenix MC 1,5/12-ST-3,81

Audio					
Gain		26 dB	29 dB	32 dB	35 dB
Input sensitivity @ 8 Ω	1204	2.45 Vrms	1.74 Vrms	1.23 Vrms	0.87 Vrms
Input sensitivity @ 8 Ω	2404	3.46 Vrms	2.46 Vrms	2.0 Vrms	1.42 Vrms
Input sensitivity @ 8 Ω	4804	4.9 Vrms	3.47 Vrms	2.45 Vrms	1.74 Vrms
Max input level		20 dBu			
Frequency Response (±0.5 dB, 1 W @ 8 Ω)		20 Hz - 20 kHz			
Crosstalk (1 kHz)		typical -70 dB			
		1204	2404	4804	
S/N (20 Hz - 20 kHz A-Weighted @ 8 Ω)		>104 dB	>108 dB	>110 dB	
Input impedance		20 kΩ balanced			
THD+N (from 0.1 W to Full Power)		< 0.1% (typical < 0.05%)			
DIM (from 0.1 W to Full Power)		< 0.05%			
Slew Rate (input filter bypassed @ 8 Ω)		> 50 V/μs			
Damping Factor @ 8 Ω, 20 Hz - 100 Hz		> 500			

Thermal					
Cooling	Fan, continuously variable speed, temperature controlled, front to rear airflow				
Thermal dissipation	@ 115 V		@ 220 V		
1204	Idle	107.2 BTU/h	27.0 kcal/h	107.9 BTU/h	27.1 kcal/h
	1/8 Max Output Power @ 4 Ω	344.8 BTU/h	86.8 kcal/h	348.2 BTU/h	87.6 kcal/h
	1/4 Max Output Power @ 4 Ω	532.6 BTU/h	134.0 kcal/h	522.3 BTU/h	131.4 kcal/h
2404	Idle	107.2 BTU/h	27.0 kcal/h	107.9 BTU/h	27.2 kcal/h
	1/8 Max Output Power @ 4 Ω	484.8 BTU/h	122.2 kcal/h	471.2 BTU/h	118.8 kcal/h
	1/4 Max Output Power @ 4 Ω	949.1 BTU/h	239.3 kcal/h	850.1 BTU/h	214.3 kcal/h
4804	Idle	110.3 BTU/h	27.8 kcal/h	110.6 BTU/h	27.9 kcal/h
	1/8 Max Output Power @ 4 Ω	853.5 BTU/h	215.2 kcal/h	768.1 BTU/h	193.7 kcal/h
	1/4 Max Output Power @ 4 Ω	1768.5 BTU/h	445.9 kcal/h	1539.8 BTU/h	388.3 kcal/h

Output Stage	1204	2404	4804
Maximum output power per channel @ 8 Ω	300 W	600 W	1200 W
Maximum output power per channel @ 4 Ω	300 W	600 W	1200 W
Maximum output power per channel @ 2 Ω	400 W	800 W	1500 W
Maximum output power @ 4 Ω Bridged	800 W	1600 W	3000 W
Maximum output power @ 8 Ω Bridged	600 W	1200 W	2400 W
Maximum output power @ Hi-Z distributed line 100 V	300 W	600 W	1200 W
Maximum output power @ Hi-Z distributed line 70 V	300 W	600 W	1200 W
Maximum unclipped output voltage @ 8 Ω	70 V _{peak}	100 V _{peak}	139 V _{peak}
Maximum output current	33 A _{peak}	45 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	Universal regulated switch mode with PFC, SRM				
Nominal voltage (±10%)	100-240 V @ 50-60Hz				
Power factor (> 500 W output)	> 0.95				
Consumption/current draw	@ 115 V		@ 230 V		
1204	Idle	31.4 W	0.40 A	31.6 W	0.28 A
	1/8 Max Output Power @ 4 Ω	301 W	2.75 A	302 W	1.65 A
	1/4 Max Output Power @ 4 Ω	556 W	5.47 A	553 W	3.02 A
2404	Idle	31.4 W	0.40 A	31.6 W	0.28 A
	1/8 Max Output Power @ 4 Ω	442 W	4.2 A	438 W	2.39 A
	1/4 Max Output Power @ 4 Ω	878 W	8.02 A	849 W	4.41 A
4804	Idle	32.3 W	0.45 A	32.4 W	0.33 A
	1/8 Max Output Power @ 4 Ω	850 W	9.16 A	826.8 W	5.02 A
	1/4 Max Output Power @ 4 Ω	1718 W	15.96 A	1651 W	9.41 A
AC Mains connector	IEC C20 inlet (20 A max) region-specific power cord provided				

Networking	
Standards compliance	auto-sensing Fast Ethernet (IEEE 802.3u, 100 Mbit/s)
Supported topologies	Star
Remote interface	Armonia Pro Audio Suite™

Construction	
Dimensions	483 x 44.5 x 358 mm 19.0 x 1.75 x 14.1 in
Weight	6.8 Kg (15 lb)

