

Amplifier

Quattrocanali2404 Quattrocanali2404/DSP+D

4 channels Power amplifier

Quattrocanali 2404 is a 4 channels class D power amplifier usable with Step-Array series with 3 channels amplifiers (SA100 - SA180) or subwoofers.

The 4 channels can work with different loads above 2 Ohm or in 100V line. Mixed configuration can be made.

When important power is needed to drive subwoofer for exemple, the amplifier can work in bridged mode.

Dedicated to fixed installation, Quattrocanali has an important efficiency. The electric consumption and the heat dissipation is weak compared to the output power.

The protection against over/under voltage, clipped signals, VHF emissions, and short Circuits make the amplifier reliable.

Quattrocanali 2404 is equipped with GPI connector for external VCA volum control and alarm GPO connectors. An ethernet port makes the control by external device possible.

Quattrocanali 2404 exists with an integrated DSP processor and Dante Input under the reference Quattrocanali 2404 DSP+D.

Quattrocanali 2404 DSP+D will offer a 4 x 4 matrix or all analogue and digital inputs. Integrated in the DSP will offer filters per channel offering aised-cosine, custom FIR, parametric IIR, peaking, hi/lo-shelving, all-pass, band-pass, band-stop, hi/lo-pass filters and a crossover linear phase (FIR), Butterworth, Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/oct(IIR).

For time alignment the DSP in the amplifier will offer Delay 2s (input) + 100ms (output). The limiters in the DSP will contain TruePower™, RMS voltage, RMS current and Peak limiters. Active DampingControl™ and Live Impedance™ measurement will be part of the DSP.

Number of channels : 4

Output power @8Ω : 600W per channel

Output power @4Ω : 600W per channel

Output power @2Ω : 800W per channel

Output power @4Ω bridge : 1600W

Output power @8Ω bridge : 1200W

Output power 100V mode : 600W

Inputs : Analog or Dante (2404 DSP+D)

Remote : GPI or Ethernet

Warranty 5 years

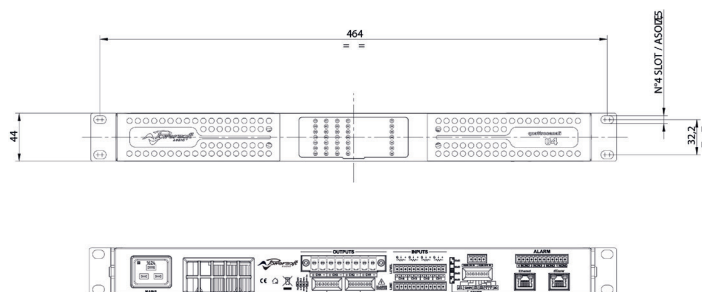


Quattrocanali2404/ DSP+D

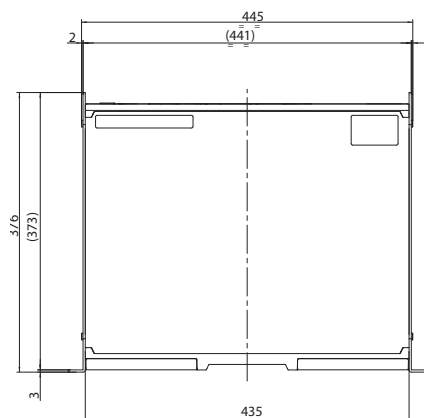
Technical Specifications

Mechanical drawing

Front views



Top views



Technical Specifications

General

Number of channels	4				
Output Power	Stereo mode		Mono bridged mode		
	2Ω/ch	4Ω/ch	8Ω/ch	4Ω/ch	8Ω/ch
	4x800W	4x600W	4x600W	1600W	1200W
Max Output Voltage/current	100V (Peak)/45A(Peak)				

AC Main Power

Power supply	Universal, regulated switch mode with PFC			
Operating voltage	100-240V ± 10%, 50-60Hz			
Consumption/current draw	@115V	@230V		
	Idle	31,4W	0,40A	31,6W
1/8 of max output power @4Ω	442W	4.2A	438W	2.39A

Audio

Gain	26dB	29dB	32dB	35dB
Frequency response	20Hz - 20kHz (1W @8Ω ± 0,5dB)			
S/N ratio	> 108dB (20Hz-20kHz @8Ω, A weighted)			
Crosstalk separation	>70dB @ 1kHz			
Input impedance	20kΩ balanced			
THD+N / SMPTE IMD / DIM100 IMD	<0,1% from 0,1W to full power (typical <0,05%)			
Slew rate	>50 V/us @8Ω, input filter bypassed			
Damping factor	>500 @ 20-100Hz (Lo-Z)			

Front panel

Indicators	7 meters LEDs per channel (4xgreen, 1xred, 1xyellow, 1xorange)
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Rear panel

Audio signal input connectors	Phoenix MC1.5/12-ST-3.81
Loudspeaker output connectors	Phoenix DFK-PC 4/8-G-7.62
Networks data Ports	1xRJ 45 socket fast Ethernet - DANTE (DSP + D version)
	1xRJ 45 socket - 485 data connection (non-DSP version)
Software Controls	Armonia

Construction

Dimensions (L,H,W)	483 x 44,5 x 360 mm
Weight	7kg

