

Amplifier

Duecanali1604 Duecanali1604 DSP+D

2 channels Power amplifier

Duecanali 1604 is a 2 channels class D power amplifier usable with Ray-On series or subwoofers.

The 2 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, Duecanali 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.

Duecanali 1604 is equipped with GPI connector for external VCA volum control and alarm GPO connectors. An ethernet port makes the control by external device possible.

Duecanali 1604 exists with an integrated DSP processor and Dante Input under the reference Duecanali 1604 DSP+D.

Duecanali 1604 DSP+D will offer a 2 x 2 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 : 2

Output power @8Ω : 800W per channel

Output power @4Ω : 800W per channel

Output power @2Ω : 1000W per channel

Output power @4Ω bridge : 2000W

Output power @8Ω bridge : 1600W

Output power 100V mode : 800W

Inputs : Analog or Dante (1604 DSP+D)

Remote : GPI or Ethernet

Warranty 5 years

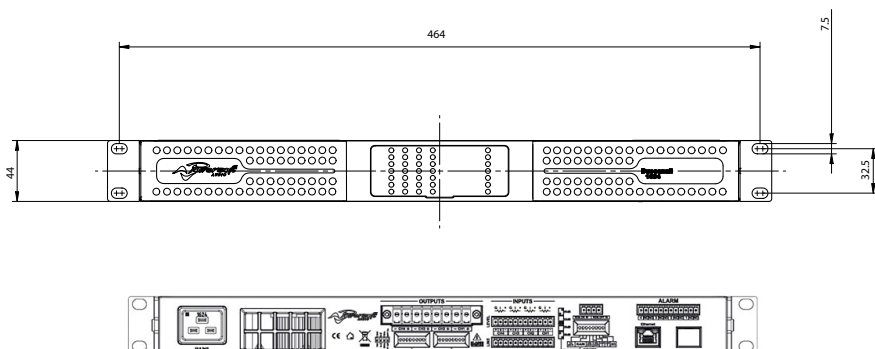


Duecanali1604/ DSP+D

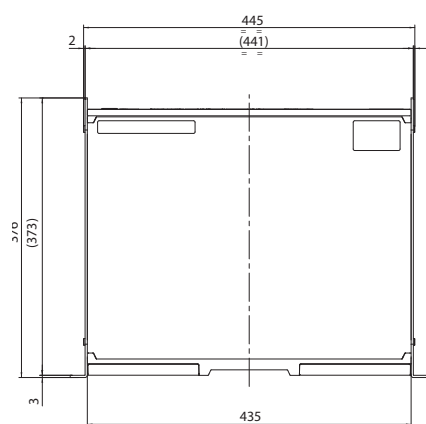
Technical Specifications

Mechanical drawing

Front views



Top views



Technical Specifications

General

| | | | | | |
|----------------------------|-----------------------|--------|-------------------|-------|-------|
| Number of channels | 2 | | | | |
| Output Power | Stereo mode | | Mono bridged mode | | |
| | 2Ω/ch | 4Ω/ch | 8Ω/ch | 4Ω/ch | 8Ω/ch |
| | 2x1000W | 2x800W | 2x800W | 2000W | 1600W |
| Max Output Voltage/current | 115V (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 | 23,1W | 0,40A | 24W | 0,28A |
| 1/8 of max output power @4Ω | 238,4W | 2,7A | 285,3W | 1,78A |

Audio

| | | | | |
|--------------------------------|--|------|------|------|
| Gain | 26dB | 29dB | 32dB | 35dB |
| Frequency response | 20Hz - 20kHz (1W @8Ω ± 0,5dB) | | | |
| S/N ratio | > 109dB (2Hz-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 | 3 x LED bar - Signal level and over-temperature protection |
|------------|--|

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 - RS485 data connection (non-DSP version) |
| | 1xUSB plug - USB connection |
| Software Controls | Armonia |

Construction

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



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