

GTA QUATTRO



The GTA Quattro has been designed to be versatile and easy to use in any operation condition. Equally useful for most subwoofers as well as high power fullrange systems, Outline GTA Quattro suites any configuration and purpose.

Ultimately flexible and safe, Outline's power supply is now suitable to Single Phase, Bi-Phase or Three Phase operation from 85 VAC up to 460 VAC without need of selection. True Three Phase load balancing is directly achievable by the unit without any complex load assignment in the power distribution system. Outline GTA Quattro provides four fully processable channels and selectable inputs from analog sources as well as digital AES3 and two redundant Dante™ streams. Channel mixing and routing can be easily performed thanks to the integrated revolutionary low latency DSP, providing the highest degree of freedom in sound shaping and speaker management.

Full support to 100 Mbps and Gigabit Ethernet makes it easy to integrate Outline GTA Quattro into any existing infrastructure. Completely integrated into Armonía Pro Audio Suite™, the new GTA Quattro interface is also available for smartphone and tablet, providing a new experience in power management.

FEATURES

HIGHLY INTEGRATED

- › **Top-grade DSP with high dynamic range and extensive feature set**
- › **Multi-stage signal processing: innovative solutions for modeling speakers behaviour and power handling**
- › **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™**

EVEN MORE RELIABLE

- › **Full protection circuitry: over/under AC voltage; troublesome signals (clipping, VHF, long-term RMS); DC; thermal; short circuit; mute at power on/off**

INNOVATIVE POWER SUPPLY DESIGN

- › **Suitable for Single-Phase, Bi-Phase or Three-Phase operation from 85 VAC up to 460 VAC, the GTA Quattro power supply provides maximum flexibility and versatility in any power distribution design**
- › **Power Load Balancing with Power Factor Correction enhances efficiency in power distribution**
- › **Smart Rails Management increases efficiency by means of the dynamic rails modulation**

PERFORMANCE SPECIFICATIONS

Number of channels	4
Output power (per channel)	Single channel mode: 5200 W @ 2 Ω, 3000 W @ 4 Ω, 1600 W @ 8 Ω Bridge mode: 10400 W @ 4 Ω, 6000 W @ 8 Ω
Max output voltage	175 V peak
Max output current	130 A peak
AC Main Power	Universal, Single Phase, Bi-Phase or Three Phase acceptance, switching mode with PFC
Operating voltage	85 V - 440 V
Operating temperature range	0° - 35° C - 32° - 95° F
Frequency response	5 Hz - 22.5 kHz (±0.5 dB)
Noise floor	< -70.0 dBV
Crosstalk separation	-70 dB
THD+N	> 0.5% (typically > 0.01%)
IMD	> 0.5% (typically > 0.01%)
DSP architecture	ARM Cortex A-8 processor and TI C6000 DSP platform
AD Converter	Dual 24 bit 48 kHz Tandem® architecture with 129 dBA of dynamic range
DA Converter	Dual 24 bit 48 kHz Tandem® architecture with 121 dBA of dynamic range
Internal precision	40 bit floating point
Firmware	Network upgradable firmware
Latency	2.53 ms fixed latency architecture
Input equalizer	Raised-cosine, custom FIR, parametric IIR: peaking, hi/lo-shelving, all-pass, band-pass, band-stop, hi/lo-pass
Output 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)
Delay	up to 2 s on input section; up to 100 ms per output for time alignment
Limiters	TruePower™, RMS voltage, RMS current, Peak limiter
Damping control	Active DampingControl™
Dimensions (L x H x W)	483 mm x 44 mm x 495 mm (19.0 in x 1.7 in x 19.5 in)

NEW STANDARD OF QUALITY AND USABILITY

- Flexible routing/mixing provided by the internal 4x4 input/output matrix, allows the user to mix and route analog and digital I/O
- Easy plug-and-play Dante™ networking allows easy routing of the signal from any node within the network to the GTA Quattro
- 4 input channels with physical analog and digital AES3 connectors and 2 redundant Dante™ connection provide maximum flexibility
- Improved reliability thanks to the customizable input backup policy that allows to automatically switch input source in case of signal failure
- Complete user interface integrated into Armonía Pro Audio Suite™
- WiFi remote monitoring through mobile device

