

ALPHA CONTROL 100

4 X 3000W, INTELLIGENT CLASS D DSP AMPLIFIER



ALPHA CONTROL 100 4-CHANNEL DSP AMPLIFIER

The Alpha Control 100 is a high-efficiency 4 x 3000W DSP amplifier designed to serve as the core of advanced audio systems requiring integrated control, precise tuning, and rugged power delivery. With onboard intelligent DSP, including IIR/FIR filtering, delay, EQ, and peak/programmable limiting, the amplifier empowers system engineers with complete tonal and timing alignment tools directly from the front panel or via networked remote access.



Built with Class D topology, the amplifier features a 96kHz ADC/DAC engine and a wide dynamic range of 114 dB, ensuring pristine signal fidelity from source to output. Versatile connectivity options include Dante, AES, XLR, and USB-B, supported by advanced metering and LED status indicators for both signal and system health. With a rugged 3U rackmount chassis, 4 analog + 4 Dante inputs, and independent control navigation per channel, the Alpha Control 1000 is ideal for high-demand applications in stadiums, touring racks, and fixed installations where consistency and remote configurability are critical.





OUTPUT POWER

- 4 Output Channels
- 1400W / Ch @ 8Ω
- 2700W / Ch @ 4Ω
- 3700W / Ch @ 2.7Ω
- 3500W / Ch @ 2Ω
- 5600W / Ch @ 8Ω Bridged
- 7000W / Ch @ 4Ω Bridged

AMPLIFIER INPUTS

- 4 Dante Inputs (optional)
- 4 Analogue Inputs

AMPLIFIER OUTPUTS

- 4 Dante Outputs (optional)
- 4 Auxiliary DSP Outputs
- 4 Channel Power Amp Outputs

CONNECTORS

- XLR Connectors for Signal Input and AUX DSP Outputs
- Speak-on Connectors for Channel Outputs
- 3 x Ethernet Ports (1 x Control, 2 x Dante)
- 1 x USB-B Port for Control 1 kHz

SYSTEM SPECIFICATIONS

- Input CMRR > 60 dB
- THD : better than 0.18% (1 kHz)

- Freq. resp.: 3Hz-30kHz ±3dB
- THD : better than 0.1% (FR)
- Nominal system gain: 32dB
- 10.7 dBu - Max Power Sensitivity
- 2.66V - Max Power Sensitivity
- Input Impedance — 20kΩ
- >400 Damping Factor, 1kHz, 8
- Signal Limiters Present
- Protection Against Short Circuit / Temperature / DC Outputs
- Mains In-rush Control present

CONTROLS & MONITORING

- LED Screen and Navigation Controls on Front Panel
- Second LED for Input Metering
- LED Strip for Output Metering
- LED Indicators for Network & AES Audio, Remote Connection and Output Bridge Indicators
- Navigation Control Section for DSP Control

POWER CONSUMPTION

- 7.5A Power Consumption, Nominal @ 240V, 4 Ω
- 15.5A Power Consumption,

- See Power Consumption & Thermal Emission Chart for a detailed specification

PROCESSING

- <60 Source Impedance
- 600 Min. Load
- (+)18 dBu - Max Output Level
- 96 kHz ADC/DAC Conversion
- 32-192 AES Accepted Sample Rate
- Less than 114 dB Dynamic Range (20Hz-20kHz)
- Delay, Polarity, upto 48 dB/Oct Crossover Filters, FIR Filtering & Dynamic EQs
- IIR EQ Settings : IIR EQ (PEQ, Shelving, variQ, all pass, phase, notch, & bandpass)
- Peak & Program Limiter

OPERATING PARAMETERS

- Operating positions : To be used in a rack-mount case with no front to back airflow restriction
- Maximum permitted ambient temperature (Ta max) 45° C (113° F)
- Minimum permitted ambient temperature (Ta min): 0° C (32° F)
- 32 dB Fan Noise

AESTHETIC SPECIFICATIONS

- Black Aluminum Chassis
- Matte Star Silver Front Panel

SIZE

- Product : 88 x 482 x 458 mm (H x W x D)
- Product : 3.4 x 19 x 18 inch (H x W x D)
- Packed individually

WEIGHT

- Net : 12.5 Kgs
- Net : 27.6 Lbs

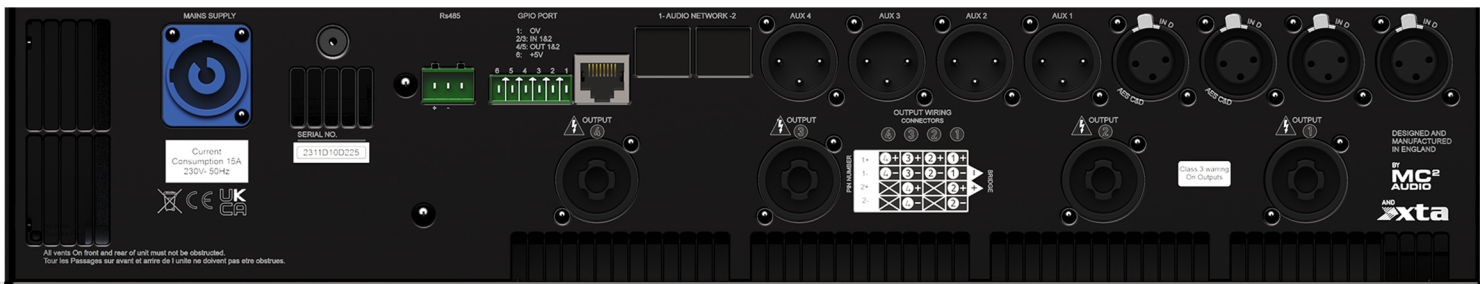
SHIPPING INFORMATION

- Carton Size 163 x 556 x 533 mm (H x W x D) 6 x 22 x 21 inch (H x W x D)
- Gross Weight : 14.5 Kgs / 32 Lbs
- Packed : Individually

PRODUCT INFORMATION

- Model No : Alpha Control 100
- Electronics
- Tags : 4 x 3000W, intelligent Class D DSP Amplifier

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Safe Installation & Rigging Practices : Installation must be by authorized personnel, following safety and rigging standards to avoid liability.
*Product specifications and design may change due to raw material variations or the addition of new features and technologies for improved performance and reliability.





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