XPS 16K

FOUR CHANNELS DSP AMPLIFIER

Description

XPS 16K is a four-channel power amplifier with advanced processing and analog/digital routing options for both touring and install use. With 4x4000 W Class D continuous power at 2.7 ohms, 40-bit floating-point processing at 96 kHz, and 32-bit internal routing, XPS 16K packs extreme power density in a 2U chassis. Designed for both touring and installed sound systems, XPS is intended for use with high-performance speakers and provides ready-to-use configurations and presets. It can also be used in linear mode with advanced tuning capabilities. Each output features: 4000 ms output delay (1372 m / 4501 ft), EQ Filters, Crossovers, FIR Filters, Multiband Compressor, RMS Limiter, and Thermal limiter. XPS delivers rider-friendly premium sound with full RDNet remote management, large touch interface onboard, exceptional signal/noise ratio, ultra-low distortion, and extreme dynamic range.

Features

- 16000 W Total Continuous Power
- 40-bit Floating-point Processing, up to 96 kHz
- 32-bit Fixed-point Internal Routing
- FiRPHASE, Bass Motion Control, Bass Shaper
- RDNet Networked Management
- Touch 4.3" Color TFT Interface
- Full On-board Processing with Delay, EQ, Comp/Limiter
- On-board Speaker Presets Library

Part Number

12100037	XPS 16K	EU	100-240 V	Black - RAL 9005	EAN 8024530019952
12100074	XPS 16K	US	100-240 V	Black - RAL 9005	EAN 8024530020385
12100076	XPS 16K	UK	100-240 V	Black - RAL 9005	EAN 8024530020842

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Amplifier specifications	Amplifier Class	D
	Output Power (EIAJ 8:32 all channels driven)	4 x 4000 W @ 2.7 ohm 4 x 2600 W @ 4 ohm 4 x 1400 W @ 8 ohm
	Frequency Response (-3dB)	20 Hz - 23000 Hz
	SNR Analog inputs (unweighted)	>111 dB
	SNR Digital inputs (unweighted)	>115 dB
	Crosstalk	<70 dB
	Distortion (THD+N) (20 Hz - 20000 Hz,1000 W @ 4 ohm)	<0.2 %
	Gain (linear mode @ 0 dB)	32 dB
	Damping factor (@ 4 ohm, 20 Hz - 1500 Hz)	>95
	Max burst length (@ 50 Hz, CF = 7 dB, 4 ohm, 1% THD+N)	200 ms
Input section	Total number of inputs	8
	Line inputs	4
	Line connectors	XLR
	Digital inputs	4
	Digital connectors	XLR
	Digital type	AES/EBU
	General Purpose Inputs (GPI)	2
	Programmable GPI	Yes
	Photo-coupled GPI	2
Output section	Signal output number	4
	Signal output connectors	XLR
	Power output connectors	Speakon
	General Purpose Outputs (GPO)	3
	Programmable GPO	Yes

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Processing	DSP	2 SHARC, 40-bit floating point, 96 kHz 2 ADAU, 32-bit fixed point, 96 kHz
	EQ Filters	Peaking, HI/LO-shelving, HI/LO-pass (Butterworth, Linkwitz-Riley, Bessel)
	Advanced algorithms	FiRPHASE technology, BASS shaper, air compensation, mid-low correction, driver excursion control, dynamic PEQ, multi-band compressor, pilot tone detection, backup recovery strategy, impedance load measurement
	Compressors	RMS limiter, dynamic compressor, power limiter, thermal compressor
	Delay	0 ÷ 4000 ms (each channel)
	Tone controls	Yes
	High-pass filter	10 Hz - 1000 Hz
	Crossover	2500 - 3500 Hz
	Automatic Gain Control (ACG)	Yes
Configuration and control	Configuration	Front panel touch screen, PC Software
	Network	Gigabit ethernet
	RCF speakers presets	Yes
	Priority	Yes
	RDNet	Onboard
Protections	Cooling	Forced
	Short circuit	Yes
	Thermal	Yes
	DC	Yes
	Fuses	Yes
	VHF (Very High Frequencies)	Yes
Operating conditions	Temperature range - Continuous operation	-5°C - +40°C / +23°F - +104°F
	Temperature range - Reduced output power	-5°C to +50°C / +23°F to +122°F
	Fan noise idle	<35 dBA
	Fan noise max	<64 dBA
Power requirement	Operating voltage	100-240 V~ 50/60Hz
	Nominal current AC @ 100-120 V	30 A
	Nominal current AC @ 220-240 V	16 A
	Stand by power consumption	20 W
	Idle power consumption	90 W
	Power consumption	5800 W
	Main fuse	Internal
Standard compliance	Safety agency	CE compliant, UL 62368-1, 3rd Ed. CSA C22.2 No. 62368-1:19, 3rd Ed.

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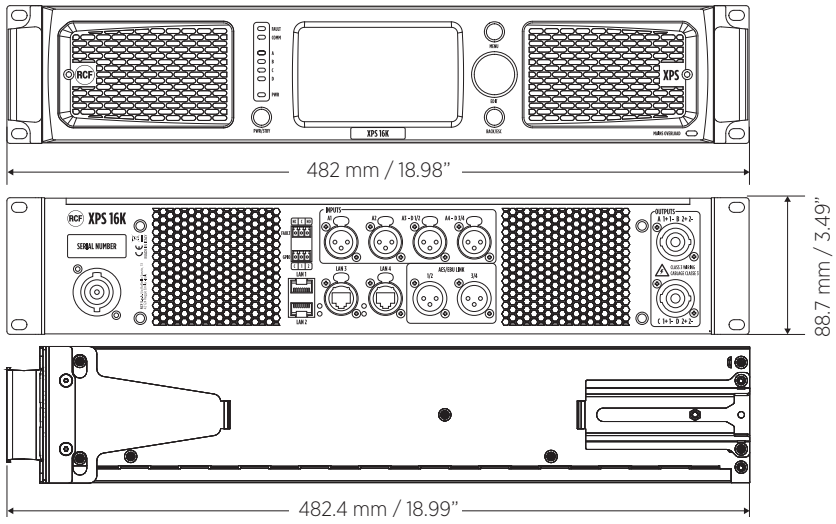
Physical specifications	Cabinet/Case Material	Metal
	Handles	2 metal handles for rack mount
	Color	Black - RAL 9005
	Rack mounting	19", 2U
Size / Weight	Height	88.7 mm / 3.49 inches
	Width	482 mm / 18.98 inches
	Depth	482.4 mm / 18.99 inches
	Weight	15 kg / 33.07 lbs

Line Art 2D