



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



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<b>Amplifier specifications</b>	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	
	<b>Input section</b>	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		
<b>Output section</b>	Signal output number	4	
	Signal output connectors	XLR	
	Power output connectors	Speakon	
	General Purpose Outputs (GPO)	3	
	Programmable GPO	Yes	



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<b>Processing</b>	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
	<b>Configuration and control</b>	Configuration
Network		Gigabit ethernet
RCF speakers presets		Yes
Priority		Yes
RNet		Onboard
<b>Protections</b>	Cooling	Forced
	Short circuit	Yes
	Thermal	Yes
	DC	Yes
	Fuses	Yes
	VHF (Very High Frequencies)	Yes
<b>Operating conditions</b>	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
<b>Power requirement</b>	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
<b>Standard compliance</b>	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

