



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

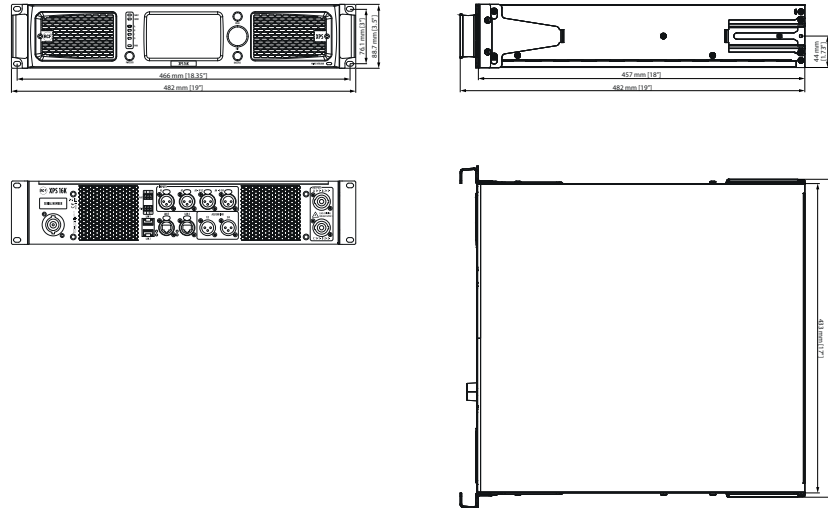
12100037	XPS 16K	EU	100-240 V	Black - RAL 9005	EAN 8024530019952
12100074	XPS 16K	US	100-240 V	Black - RAL 9005	EAN 8024530020385
12100076	XPS 16K	UK	100-240 V	Black - RAL 9005	EAN 8024530020842



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Line Art 2D



TECHNICAL SPECIFICATIONS

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



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Output section	Signal output number	4
	Signal output connectors	XLR
	Power output connectors	Speakon
	General Purpose Outputs (GPO)	3
	Programmable GPO	Yes
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 (AGC)	Yes
	Configuration and control	Configuration
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



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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.		
	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		
	ACCESSORIES			
Cables	CABLES KIT			
	12399082	CBL 010	Black	EAN 8024530021085
	12399109	CBL99109	Black	EAN 8024530023324