

XPS 16K

FOUR CHANNELS DSP AMPLIFIER

DESCRIPTION

XPS 16K offers a full package of high power amplification, innovative processing, analog and digital audio management in a single solution. It is a high power amplifier dedicated to RCF speaker systems with an onboard dedicated preset library. XPS 16K offers four independent, processed channels of audio amplification and is capable of driving all professional RCF speaker systems. The main user interface is RDNet, RCF proprietary control and monitoring software. It is possible to discover, monitor and control a virtually unlimited number of amplifier. Users will find ready to use definable parametric equalizations, multiband compressors, RCF bass shaper, air absorption compensation, delays and levels. The time delay it is up to four second per channel. Most of settings and monitored parameters (channel information, presets, levels, status, grouping and naming as well as user presets) are also accessible through the front panel user interface, made of a capacitive 4.3" touch screen and an ergonomic rotary encoder.



FEATURES

- 4 x 4000 W continuous output power
- 20 ÷ 23000 Hz frequency range
- Full on-board processing
- RCF speakers' presets library
- Proprietary advanced algorithms
- Networked management via RDNet
- Native ethernet interface
- 4.3" TFT capacitive touch panel



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 (unweighted)	
	Analog inputs:	111 dB
	Digital inputs:	115 dB
	Crosstalk:	<70 dB
	THD+N (20 Hz ÷ 20000 Hz, 1000 W @ 4ohm):	<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
Inputs section	Total number of inputs:	8
	Line inputs:	4
	Line connectors:	XLR
	Input impedance:	19 kohm (unbalanced)
	Maximum input level:	+24 dBU
	Digital inputs:	4
	Digital connectors:	XLR
	Digital type:	4 AES/EBU
	General Purpose Inputs (GPI):	2
	Programmable GPI:	Yes
	Photo-coupled GPI:	Yes
Outputs section	Signal output number:	4
	Signal output connectors:	XLR
	Power output lines:	4
	Power output connectors:	Speakon
	General Purpose Outputs (GPO):	3
	Programmable GPO:	Yes
Processing	Digital Signal Processing (DSP):	2 SHARC, 40-bit floating point, 96 kHz 2 ADAU 1442, 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)



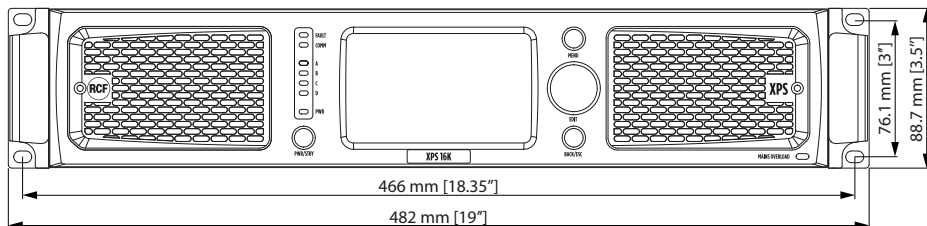
Configuration and control	Configuration: Speakers presets: Control and monitoring protocols: Network:	Front panel touch screen PC Software RCF presets library Proprietary OSC based protocol RDNet Gigabit ethernet
Protections	Protections:	Forced cooling short circuit thermal DC Fuses VHF (Very High Frequencies)
Thermal	Temperature range Continuous operation: Reduced output power: Fan noise idle: Fan noise max:	-5°C ÷ +40°C / +23°F ÷ +104° F -5°C to +50°C / +23°F to +122°F <35 dBA <64 dBA
Power supply	Operating voltage: Nominal current requirements (@ 100-120 V): Nominal current requirements (@ 200-240 V): Power consumption standby: Power consumption idle: Power consumption max: Mains fuse:	90-240 V- 50/60Hz 30 A 16 A 20 W 90 W 5800 W Internal
Standard compliance	Marking:	CE UL
Physical specifications	Cabinet/Case Material: Handles: Color: Rack mounting:	Metal 2 metal handles for rack mount Black 19", 2U
Size	Height: Width: Depth: Weight:	88.7 mm / 3.49 inches 482 mm / 18.98 inches 482.4 mm / 18.99 inches 15 kg / 33.07 lbs
Shipping informations	Package Height: Package Width: Package Depth: Package Weight:	150 mm / 5.91 inches 580 mm / 22.83 inches 600 mm / 23.62 inches 18 kg / 39.68 lbs

PART NUMBER

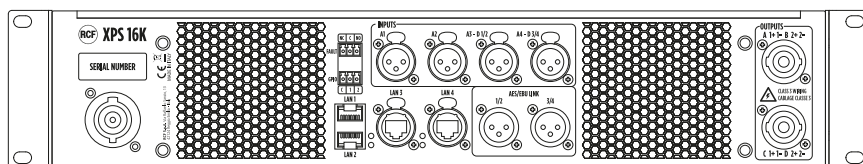
- **12100037**
 - XPS 16K
 - EU
- **12100074**
 - XPS 16K
 - US
- **12100076**
 - XPS 16K
 - UK

DRAWINGS

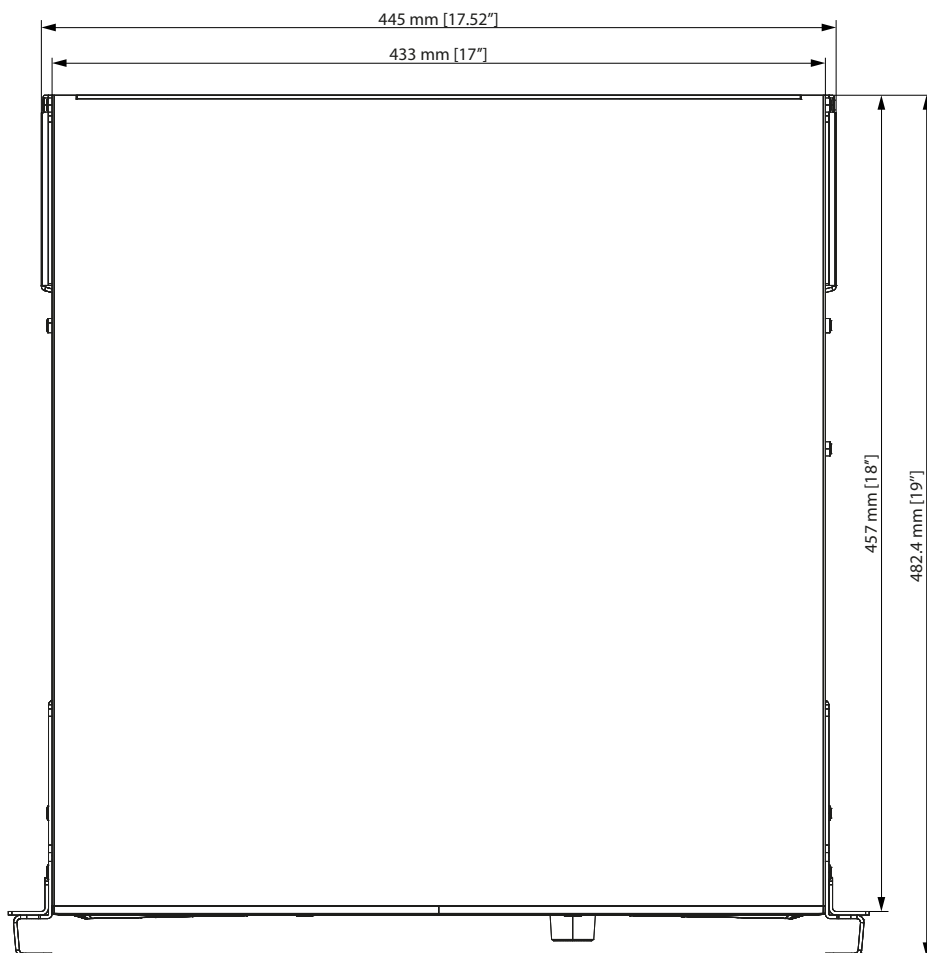
Front view



Rear view



Top view



Side view

