XPS 16KD

FOUR CHANNELS DSP AMPLIFIER WITH DANTE

DESCRIPTION

XPS 16KD 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 16KD 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. XPS 16KD is equipped with a Dante board that makes 8 additional digital inputs available.

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
- 8 channels Dante board
- 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:	Ethercon | XLR
	Digital type:	4 AES/EBU | 8 DANTE
	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 algoritms:	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)

RCF products are continually improved. All specifications are therefore subject to change without notice.

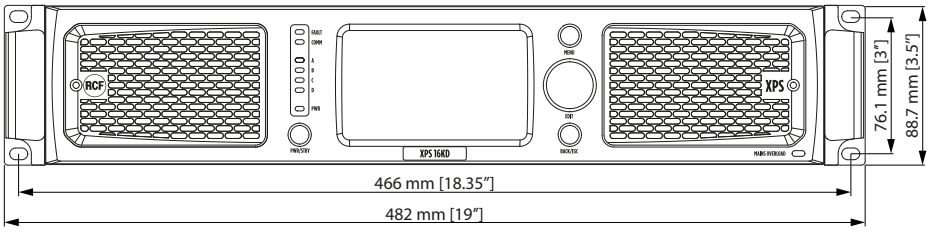
Configuration and control	Configuration:	Front panel touch screen | PC Software
	Speakers presets:	RCF presets library
	Control and monitoring protocols:	Proprietary OSC based protocol | RDNet
	Network:	Gigabit ethernet
Protections	Protections:	Forced cooling | short circuit | thermal | DC | Fuses |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

PART NUMBER

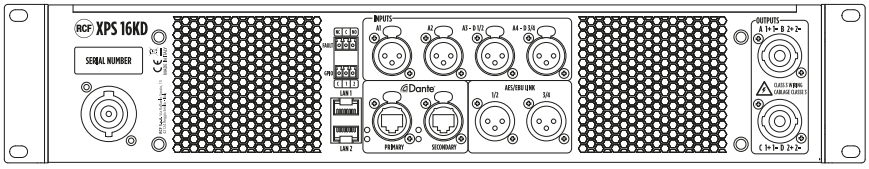
- **12100064**
  XPS 16KD
  EU
- **12100075**
  XPS 16KD
  US
- **12100077**
  XPS 16KD
  UK

DRAWINGS

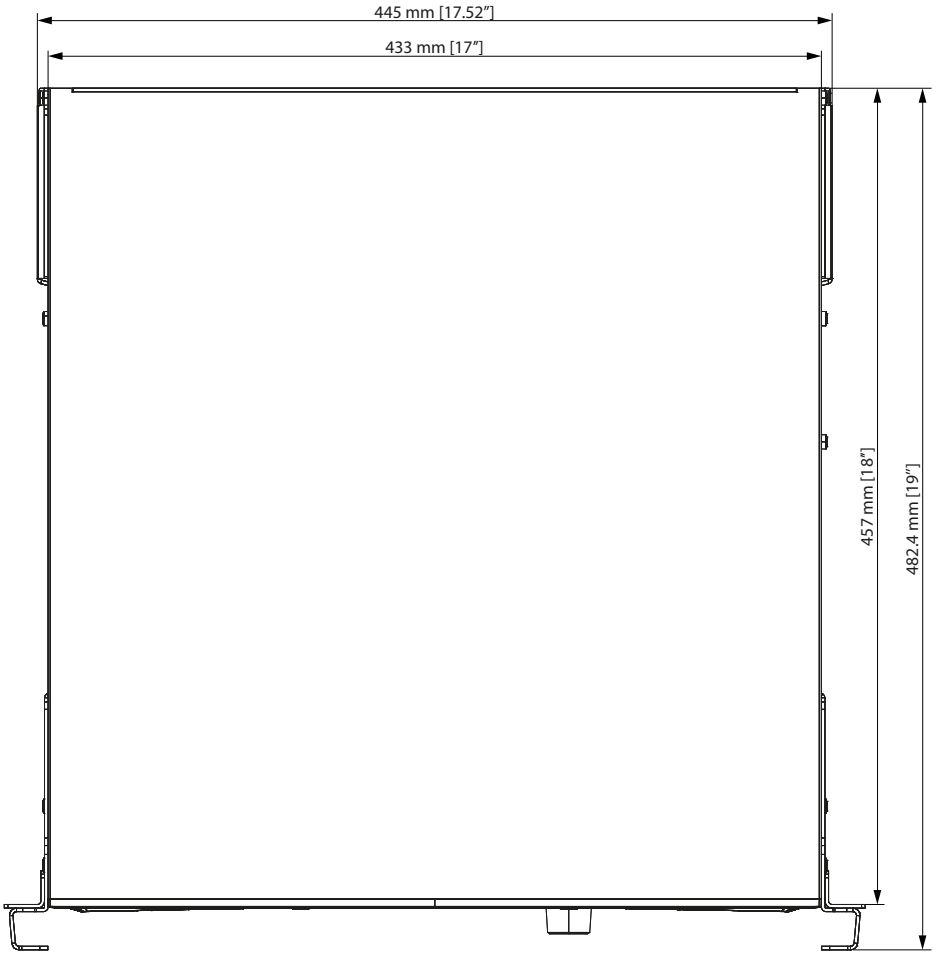
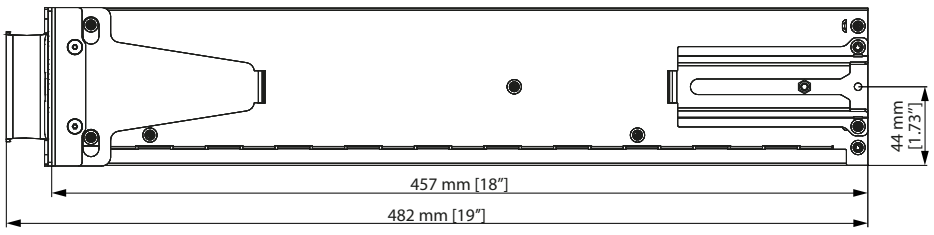
Front view



Rear view



Top view



Side view