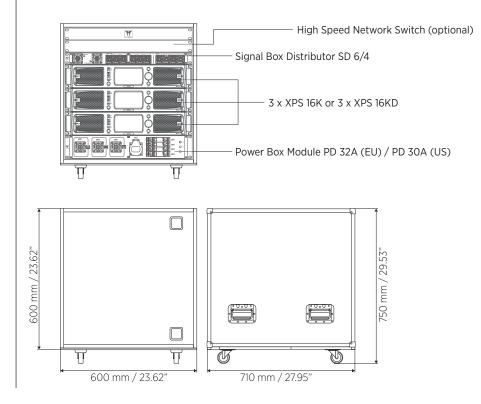


TTR 16K TOURING RACK ASSEMBLY



Description

The TTR 16K is a ready-to-use amplifier rack for GTX systems. The shock-mounted 11 rack-unit flight case is configurable with three XPS 16K 4x4,000 Watt amplifiers, one SD 6/4 signal distribution box, and one PD 32A 220V power distribution box (or PD 30A for US/115V). Six analog line inputs feed the TTR 16K rack via rugged 19-pin S-COM connectors or traditional XLR sockets. All signal wiring is completed internally for analog, AES/EBU digital audio, amplifier mains power, and powered lines. The XPS 16K amplifiers are daisy-chained to the RDNET-OE control network via Ethernet connections. All four output power signals are routed to GTX or GTS speakers via 8-pin P-COM connectors. The TTR 16K can optionally be provided with 3 XPS 16KD amplifiers and a dedicated managed Ethernet switch to support Dante Audio Network. The flight case is equipped with four 100mm wheels.





SD 6/4 BOX SIGNAL DISTRIBUTION BOX







SD 6/4 BOX SIGNAL DISTRIBUTION BOX

General specifications	Front connectors:	1x Analog input 6 channel connector (SCOM 19 pin) 1x Analog Link 6 channel connector (SCOM 19 pin) 6x Analog XLR input connector (female XLR 3 pin) 2x AES input (female XLR 3 pin) 2x AES output (male XLR 3 pin)	
	Rear connectors:	3x Analog XLR output connector (male XLR 3 pin) 3x Analog XLR output connector (male XLR 3 pin) 4x Analog XLR output connector (male XLR 3 pin) 2x AES output (male XLR 3 pin) - LINK 2x AES input (female XLR 3 pin) - LINK	
Standard compliance	Safety agency:	CE compliant	
Physical specifications	Cabinet/Case Material: Color: Rack mounting:	Steel Black 19″, 1U	
Size	Height: Width: Depth: Weight:	44 mm / 1.73 inches 480 mm / 18.9 inches 370 mm / 14.57 inches 3.5 kg / 7.72 lbs	
Line Art 2D			



PD 32A POWER DISTRIBUTION BOX



Description	PD 32A is an AC power distribution box able to distribute power to three XPS 16K amplifiers inside a 19" rack and to auxiliary services. The box is 2U high. It is powered by a 1.5m long cord equipped with a 32 A CEE 5-pin plug and includes a 32 A CEE 5-pin socket in order to connect energy to a second rack when powered at 230V. The front panel offers one AUX Schuko power inlet and three P-COM 8 connectors as AC power signal distribution for each group of loudspeakers. The back panel offers two powerCON AUX inlets.
Features	 Distributes power to 3 XPS 16K amplifiers Nominal voltage 400V Safety circuits brakers on each power line Rack optimized cables lenght Front panel phase presence neon indicators
Part Number	17100016 EU



PD 32A POWER DISTRIBUTION BOX

General specifications	Reference standard: Nominal voltage: Nominal current: Frequency: Contemporary factor: Power supply: General:	CEI EN 61439-1 (CEI 17-113) CEI EN 61439-2 (CEI 17-114) 400V 32A 50-60Hz 0.7 1 x INPUT via 1.5m cable with male connector CEE 32A 400V IP44 3P+N+E 1 x Circuit breaker 4,5kA, 1P+N 10A, C 3 x Circuit breaker 4,5kA, 1P+N 32A, C 6 x INPUT via flying cables with Speakon NL4 connectors 3 x phase signal lamps
	Distribution:	1 x plug CEE OUTPUT 16A 230V 50-60Hz 2P+T 2 x auxiliary connectors AUX - PowerCon NAC3MPB-1 3 x OUTPUT via flying cables with connector PowerCon NAC3FCH 3 x OUTPUT via P-COM 8POLE 1 x plug CEE OUT 32A 230V 50-60Hz 3P+N +T
Standard compliance	Safety agency:	CE compliant
Physical specifications	Cabinet/Case Material: Handles: Color: Rack mounting:	Metal 2 x handles for rack mount Black 19", 2U
Size	Height: Width: Depth: Weight:	88 mm / 3.46 inches 482 mm / 18.98 inches 270 mm / 10.63 inches 3.5 kg / 7.72 lbs
Line Art 2D	Image: state	AMP 1 AUX 1 AUX 1 AUX 1 AUX 1 AMP 1 C C C C C C C C C C C C C

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PD 30A POWER DISTRIBUTION BOX

Description	PD 30A is an AC power distribution box able to distribute power to three XPS 16K amplifiers inside a 19" rack to auxiliary services intended for the 110V US market. The box is 2U high. It is powered by a 1.5m (5 ft.) long cord equipped with a 30A NEMA plug. A rotary switch on the back panel allows combining the live phases to obtain 115 or 208V on the power plugs and AUX. The front panel offers one AUX NEMA 5-15 power inlet and three P-COM 8 connectors as power signal distribution for each group of loudspeakers. The back panel offers two powerCON AUX inlets.		
Features	 Distributes power to 3 XPS 16K ar Nominal voltage 120V-208V Safety circuits brakers on each po Rack optimized cables lenght Front panel phase presence neon 	ower line	
General specifications	Nominal voltage: Nominal current: Frequency: Power supply: General: Distribution:	 250V 30A 50-60Hz 1 x INPUT via 1.5m cable with NEMA L21-30P male connector 30A 120V-208V IP44 3P+N+E 1 x Circuit breaker 4,5kA, 1P+N 10A, C 3 x Circuit breaker 4,5kA, 1P+N 32A, C 6 x INPUT via flying cables with Speakon NL4 connectors 3 x phase signal lamps 1 x NEMA 5-15 OUTPUT 10A 115V 50-60Hz 2P+T 1 x phase selector: N-L, L-L with OFF central position 2 x auxiliary connectors AUX - PowerCon NAC3MPB-1 3 x OUTPUT via flying cables with connector PowerCon NAC3FCH 3 x OUTPUT via P-COM 8POLE 	
Physical specifications	Cabinet/Case Material: Color: Rack mounting:	Metal Black 19", 2U	
Size	Height: Width: Depth: Weight:	88 mm / 3.46 inches 482 mm / 18.98 inches 270 mm / 10.63 inches 3.5 kg / 7.72 lbs	
Line Art 2D	AMP 2 AMP 2 AMP 2 C C C C C C C C C C C C C		
Part Number	17100018 US		



RCF 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 > RCF Speaker Presets Library 		
Part Number	12100037	EU	EAN 8024530019952
	12100074	US	EAN 8024530020385
	12100076	UK	EAN 8024530020842

Rev. 1



RCF XPS 16K

FOUR CHANNELS DSP AMPLIFIER

Amplifier specifications	Amplifier Class:	D
Ampliner specifications	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
	THD+N (20 Hz ÷ 20000 Hz,1000 W @ 4 ohm):	
	Gain (linear mode @ 0 dB): Damping factor (@ 4 ohm, 20 Hz ÷ 1500 Hz):	32 dB >95
	Max burst length (@ 50 Hz, CF = 7 dB, 4 ohm, 1% THD(N):	200
	1% THD+N):	200 ms
Input section	Total number of inputs:	8
	Line inputs:	4
	Line connectors:	XLR
	Digital inputs: Digital connectors:	4 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
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
		multiband 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: Crossover:	10 Hz ÷ 1000 Hz 2500 ÷ 3500 Hz
	Automatic Gain Control (ACG):	Yes
Configuration and control	Configuration:	Front panel touch screen, PC Software
configuration and control	Network:	Gigabit ethernet
	RCF speakers presets:	Yes
	Priority:	Yes
	Protocols for system integration:	Proprietary OSC based protocol, Q-SYS
	RDNet:	Yes

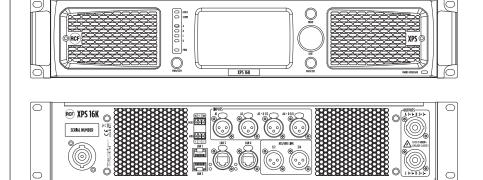


RCF XPS 16K

FOUR CHANNELS DSP AMPLIFIER

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Protections	Cooling: Short circuit: Thermal: DC: Fuses: VHF (Very High Frequencies):	Forced Yes Yes Yes Yes
Operating conditions	Temperature range - Continuous operation: Temperature range - 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 requirement	Operating voltage: Nominal current AC @ 100-120 V: Nominal current AC @ 220-240 V: Stand by power consumption: Idle power consumption: Power consumption: Main fuse:	90-240 V~ 50/60Hz 30 A 16 A 20 W 90 W 5800 W Internal
Standard compliance	Safety agency:	CE compliant
Physical specifications	Cabinet/Case Material: Handles: Color: Rack mounting:	Metal 2 metal handles for rack mount Black - RAL 9005 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

Line Art 2D





RCF XPS 16KD

DANTE-EQUIPPED FOUR CHANNELS DSP AMPLIFIER



Description

XPS 16KD is a four-channel power amplifier with advanced processing and advanced routing with Dante, digital and analog I/O 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	 Dante Aud FiRPHASE, RDNet Net Touch 4.3" Full On-boo RCF Speak 	ating-point io Network Bass Motic worked Ma Color TFT ard Process er Presets I	DSP and 32-bit routing up to 96 kHz on Control, Bass Shaper nagement Interface sing with Delay, EQ, Comp/Limiter
Part Number	12100064	EU	EAN 8024530020125
	12100075	US	EAN 8024530020392
	12100077	UK	EAN 8024530020859



RCF XPS 16KD

DANTE-EQUIPPED FOUR CHANNELS DSP AMPLIFIER

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	
	THD+N (20 Hz ÷ 20000 Hz,1000 W @ 4 ohm): Gain (linear mode @ 0 dB):		
	Damping factor (@ 4 ohm, 20 Hz ÷ 1500 Hz):	32 dB >95	
	Max burst length (@ 50 Hz, CF = 7 dB, 4 ohm, 1% THD+N):	200 ms	
Input section	Total number of inputs:	16	
	Line inputs:	4	
	Line connectors:	XLR	
	Digital inputs: Digital connectors:	12 Ethercon, XLR	
	Digital connectors. Digital type:	AES/EBU, DANTE	
	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 Yes	
	Programmable GPO:		
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 multiband 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: Automatic Gain Control (ACG):	2500 ÷ 3500 Hz Yes	
Confirmation and control			
Configuration and control	Configuration: Network:	Front panel touch screen, PC Software Gigabit ethernet	
	RCF speakers presets:	Yes	
	Priority:	Yes	
	Protocols for system integration:	Proprietary OSC based protocol, Q-SYS	
	RDNet:	Yes	

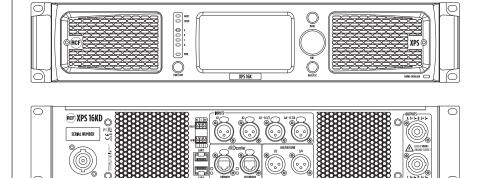


RCF XPS 16KD

DANTE-EQUIPPED FOUR CHANNELS DSP AMPLIFIER

1		
Protections	Cooling: Short circuit: Thermal: DC: Fuses: VHF (Very High Frequencies):	Forced Yes Yes Yes Yes
Operating conditions	Temperature range - Continuous operation: Temperature range - 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 requirement	Operating voltage: Nominal current AC @ 100-120 V: Nominal current AC @ 220-240 V: Stand by power consumption: Idle power consumption: Power consumption: Main fuse: Fuses Model:	90-240 V~ 50/60Hz 30 A 16 A 20 W 90 W 5800 W Internal F 315 mA H 100 V
Standard compliance	Safety agency:	CE compliant
Physical specifications	Cabinet/Case Material: Handles: Color: Rack mounting:	Metal 2 metal handles for rack mount Black - RAL 9005 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

Line Art 2D



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