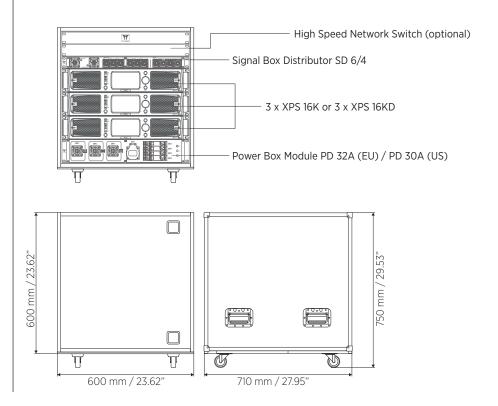


TTR 16K TOURING RACK ASSEMBLY



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.







Description

SD 6/4 is an input signal box that distributes the signals from S-COM 19 connector or the six female XLR connectors on the front panel to ten male XLRs on the back panel. The four AES/EBU IN/OUT connectors are linked to the back panel. Inputs 1 and 2 are respectively paralleled to three XLR connectors on the back panel.

Features

- > 6 Channels signal distributor
- > 2 S-COM 19 connectors on front panel
- > Easy signal distributon for up to three XPS 16K amplifier
- > Rugged steel chassis

Part Number

17100019



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: Steel
Color: Black
Rack mounting: 19", 1U

Size

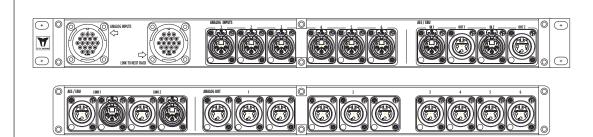
 Height:
 44 mm / 1.73 inches

 Width:
 480 mm / 18.9 inches

 Depth:
 370 mm / 14.57 inches

 Weight:
 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: CEI EN 61439-1 (CEI 17-113) CEI EN 61439-2 (CEI 17-114)

Nominal voltage: 400V Nominal current: 32A Frequency: 50-60Hz Contemporary factor: 0.7

1 x INPUT via 1.5m cable with male connector Power supply:

CEE 32A 400V IP44 3P+N+E

General: 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

CE compliant

Metal

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 **Physical specifications** Safety agency: Cabinet/Case Material:

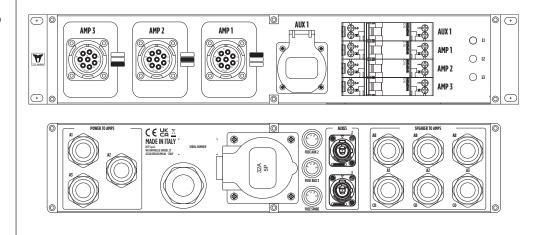
Handles: 2 x handles for rack mount

Color: Black Rack mounting: 19", 2U

Size

Height: 88 mm / 3.46 inches Width: 482 mm / 18.98 inches Depth: 270 mm / 10.63 inches Weight: 3.5 kg / 7.72 lbs

Line Art 2D





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 amplifiers
- > Nominal voltage 120V-208V
- > Safety circuits brakers on each power line
- > Rack optimized cables lenght
- > Front panel phase presence neon indicators

General specifications

Nominal voltage: 250V Nominal current: 30A Frequency: 50-60Hz

Power supply: 1 x INPUT via 1.5m cable with NEMA L21-30P male connector

30A 120V-208V IP44 3P+N+E

General: 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 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: Metal
Color: Black
Rack mounting: 19", 2U

Size

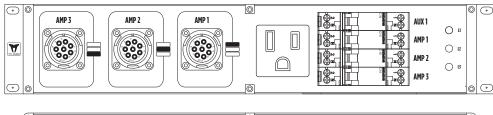
 Height:
 88 mm / 3.46 inches

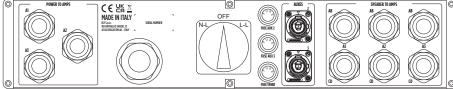
 Width:
 482 mm / 18.98 inches

 Depth:
 270 mm / 10.63 inches

 Weight:
 3.5 kg / 7.72 lbs

Line Art 2D





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



RCF XPS 16K

FOUR CHANNELS DSP AMPLIFIER

Amplifier specifications Amplifier Class:

> 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

20 Hz ÷ 23000 Hz Frequency Response (-3dB):

SNR Analog inputs (unweighted): >111 dB SNR Digital inputs (unweighted): >115 dB <70 dB Crosstalk: 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, 200 ms

1% THD+N):

EQ Filters:

Total number of inputs: 8 Input section

Line inputs: 4 Line connectors: XLR 4 Digital inputs: Digital connectors: XLR AES/EBU Digital type:

General Purpose Inputs (GPI): 2 Programmable GPI: Yes Photo-coupled GPI: 2

Output section Signal output number: 4

> XLR Signal output connectors: Speakon Power output connectors: General Purpose Outputs (GPO): 3

Programmable GPO:

Processing DSP: 2 SHARC, 40-bit floating point, 96 kHz

2 ADAU, 32-bit fixed point, 96 kHz Peaking | HI/LO-shelving | HI/LO-pass (Butterworth, Linkwitz-Riley, Bessel)

FiRPHASE technology | BASS shaper | air compensation | Advanced algorithms:

Yes

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 2500 ÷ 3500 Hz Crossover:

Automatic Gain Control (ACG): Yes

Configuration and control Configuration: Front panel touch screen, PC Software

> 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

Protections Cooling:

Short circuit:

Thermal:

Yes

DC:

Yes

Fuses:

Yes

Yes

Yes

Yes

VHF (Very High Frequencies):

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

Forced

Fan noise idle: <35 dBA
Fan noise max: <64 dBA

Power requirement Operating voltage: 90-240 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 complianceSafety agency:CE compliant

 Physical specifications
 Cabinet/Case Material:
 Metal

Handles: 2 metal handles for rack mount

Color: Black - RAL 9005

Rack mounting: 19", 2U

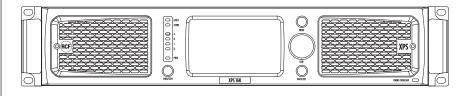
 Size
 Height:
 88.7 mm / 3.49 inches

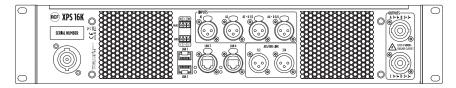
 Width:
 482 mm / 18.98 inches

Depth: 482.4 mm / 18.99 inches

Weight: 15 kg / 33.07 lbs

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

- > 16000 W Total Continuous Power
- > 40-bit Floating-point DSP and 32-bit routing up to 96 kHz
- > Dante Audio Network
- > 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
- > Class-D Modules with SMPS and Advanced PFC

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:

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): <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):

EQ Filters:

200 ms

Input section Total number of inputs: 16

Line inputs: 4
Line connectors: XLR
Digital inputs: 12

Digital connectors: Ethercon, XLR
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:
 XLE

Signal output connectors:XLRPower output connectors:SpeakonGeneral 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
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: $0 \div 4000 \text{ ms (each channel)}$

Tone controls: Yes

High-pass filter: $10 \text{ Hz} \div 1000 \text{ Hz}$ Crossover: $2500 \div 3500 \text{ Hz}$

Automatic Gain Control (ACG): Yes

Configuration and control Configuration: Front panel touch screen, PC Software

Network: 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

Protections

Cooling: Forced
Short circuit: Yes
Thermal: Yes
DC: Yes
Fuses: Yes
VHF (Very High Frequencies): Yes

Operating conditions

Temperature range - Continuous operation: $-5^{\circ}\text{C} \div +40^{\circ}\text{C} / +23^{\circ}\text{F} \div +104^{\circ}\text{F}$ Temperature range - Reduced output power: -5°C to $+50^{\circ}\text{C} / +23^{\circ}\text{F}$ to $+122^{\circ}\text{F}$

Fan noise idle: <35 dBA
Fan noise max: <64 dBA

Power requirement

Operating voltage: 90-240 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

Fuses Model: F 315 mA H 100 V

Standard compliance

Safety agency: CE compliant

Physical specifications

Cabinet/Case Material: Metal

Handles: 2 metal handles for rack mount

Color: Black - RAL 9005

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

Line Art 2D

