

Preliminary

DriveRack[®] 4800

Complete Equalization and Loudspeaker Management System

dbx[®]
PROFESSIONAL PRODUCTS



VISIONARY DESIGN

Designed to provide incredible flexibility, sonic excellence and intuitive control for performance applications, the DriveRack[®] 4800 is the new flagship of the hugely successful DriveRack family. From the powerful 96 kHz DSP engine and standard analog and digital I/O, to the VGA display and multiple control surfaces, the 4800 provides all the processing, flexibility and control necessary for both installation and live use. The Wizard function enhances its capability by making the DriveRack 4800 easier to use providing a menu based setup procedure including system configuration, Auto-EQ, and an Advanced Feedback Suppression[™] (AFS[™]) Wizard.

REVOLUTIONARY ENGINEERING

The DriveRack 4800 is the next generation of the famous DriveRack family, and like its predecessor it is engineered to provide “Everything you need between the mixer and the power amps”. In keeping with this philosophy the 4800 includes four inputs and eight outputs with both analog and AES/EBU XLR connectivity; a CobraNet option rounds it out offering greater flexibility for large installations. The 96 kHz processing engine is capable of offering insert processing functions to customize the processing path for your application, in addition to the standard system processing functions all with extremely low latency and extended frequency response. From Signal Routing, EQ, and Bandpass Filters, to classic dbx[®] Dynamics and Feedback Suppression all the processing is available and with the sonic excellence that you would expect from the world's leading system processing manufacturer. With all this processing power available, control is of paramount importance. The DriveRack provides a full color display to speed manual operation; this combined with intuitive front panel controls, an easy to use GUI and optional wall panel controllers means that whether your application is tour sound or installation, the DriveRack 4800 has what it takes. For more information please visit www.driverack.com or www.dbxpro.com.

FEATURES

- *48 and 96 kHz operation with Wordclock input*
- *Full Color VGA Display*
- *4 analog and AES/EBU inputs*
- *8 analog and AES/EBU outputs*
- *Optional CobraNet I/O*
- *Optional Jensen[®] I/O Transformers*
- *Full Bandpass Filter, Crossover and Routing Configurations with Bessel, Butterworth, and Linkwitz-Riley filters*
- *31-Band Graphic and 9-band Parametric EQ on every input*
- *6-band Parametric EQ on every output*
- *Loudspeaker Cluster and Driver Alignment Delays*
- *Selectable DSP inserts on all inputs and outputs including Classic dbx Compression, Limiting and Advanced Feedback Suppression among others*
- *Ethernet HiQnet networking and control*
- *dbx ZC wall panel control*

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H A Harman International Company

DriveRack® 4800

Complete Equalization and Loudspeaker Management System



SPECIFICATIONS

Analog Inputs:

Connectors: (4) Female XLR
 Type: Electronically balanced, RF filtered
 Impedance: >50k ohms
 Maximum Input Level: Software selectable for: +28, +26, +24, +22, +20, +18, +16, +14 dBu
 CMRR: >40 dB typical, >55 dB at 1 kHz

Digital Inputs:

Connectors: (4) AES/EBU Channels
 Type: Female XLR
 Impedance: Transformer Isolated, RF filtered
 >110 ohms

RTA Input:

Connectors: (1) Analog
 Type: Female XLR
 Gain range: 10 dB to 50 dB in 10 dB increments

Analog Outputs:

Connectors: (8) Male XLR
 Type: Electronically balanced, RF filtered
 Impedance: 30 ohms
 Max Output Level: Software selectable for: +24, +22, +20, +12, +8, +4 dBu

Digital Outputs:

Connectors: (8) AES/EBU Channels
 Type: Male XLR
 Impedance: Transformer Isolated, RF filtered
 >110 ohms

A/D Performance

Type: dbx Type IV™ Conversion System
 Dynamic Range: >114 dB unweighted, 116 dB A-weighted
 Type IV™ dynamic range: 128 dB with transient material, A-weighted, 22 kHz BW
 126 dB with transient material, unweighted, 22 kHz BW
 120 dB typical with program material, A-weighted, 22 kHz BW
 Sample Rate: 96 kHz
 A/D Wordlength: 24 bits

D/A Performance

Dynamic Range: 112 dB unweighted, 115 dB A-weighted
 Sample Rate: 96 kHz
 D/A Wordlength: 24 bits

System Performance

Dynamic Range: 112 dB unweighted, 115 dB A-weighted
 Internal Processing: 32 bit floating point
 THD + Noise: 0.004% typical at +4 dBu, 1 kHz, 0 dB input gain
 Frequency Response: 20 Hz- 40 kHz, +/-0.5 dB
 Interchannel Crosstalk: <-85 dB at 1 kHz, 0 dB input gain

Processing

Pre EQ Type: One 31-band Graphic EQ on each input One EQ that is switchable between 31-band and 9-band Parametric on each input
 Range: +/- 12 dB

Input Insert Processing: Two selectable Insert Processing blocks per input
 Type: Noise Gate, Compressor, Auto Gain Control, De-Esser, Sub-Harmonic Synth, Advanced Feedback Suppression

Input Delay Length: Up to 682 mSec available

Routing/Mixing: 4-input mixer available at each output allowing any input to be sent or mixed to any output

Output Insert Processing: Two selectable Insert Processing blocks per output
 Type: Noise Gate, AutoWarmth®, Compressor, Auto Gain Control, Peak Limiter, Sub-Harmonic Synth, Advanced Feedback Suppression

X-Over Filter Configs: 1x1, 1x2, 1x3, 1x4, 1x5, 1x6, 1x7, 1x8, 2x2, 2x3, 2x4
 2x5, 2x6, 2x7, 2x8, 3x3, 3x4, 3x6, 3x7, 4x4, 4x5, 4x8

Types: Bessel 6, 12, 18, and 24 dB per Octave
 Butterworth 6, 12, 18, and 24 dB per Octave
 Linkwitz-Riley 12, 24, 36, and 48 dB per Octave

Polarity: Positive and Negative

Phase Control: 0 to -180 degrees in 5 degree increments

Output Delay Length: 1365 mSec shared between the outputs

Miscellaneous:

I/O Transformers: Optional

CobraNet® I/O: Optional

Control: Ethernet, RS-232, Optional dbx ZC Wall Panels

Power Requirements: 100V to 240V 50/60Hz, 45 Watts

Dimensions: 3.5" x 19" x 12.15"

Weight: 11 lbs.

Shipping Weight: 12.5 lbs.

dbx engineers are constantly working to improve the quality of our products. Specifications are, therefore subject to change without notice.

dbx PROFESSIONAL PRODUCTS

The Professional's Choice In Signal Processing™

FOR MORE INFORMATION CONTACT:

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