

# 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 QVGA display and multiple control surfaces, the 4800 provides all the processing, flexibility and control necessary for both installation and live use. The menu-based 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 digital connectivity. 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](http://www.driverack.com) or [www.dbxpro.com](http://www.dbxpro.com).

## FEATURES

- 48 and 96 kHz operation
- Color QVGA Display
- 4 analog and AES/EBU inputs
- 8 analog and AES/EBU outputs
- 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 control
- dbx ZC wall panel control

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 A Harman International Company

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## 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: 20 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: >113 dB unweighted, 116 dB A-weighted  
Type IV™ dynamic range: 126 dB with transient material, A-weighted, 22 kHz BW  
123 dB with transient material, unweighted, 22 kHz BW  
118 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: 110 dB unweighted, 113 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- 20 kHz, +/-0.25 dB, <10 Hz- 50 kHz +0/-3dB @ 96kHz  
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 Graphic and 9-band Parametric on each input +/- 15 dB

### Range:

### Input Insert Processing:

### Type:

Two selectable Insert Processing blocks per input  
Noise Gate, Compressor, Auto Gain Control, De-Esser, Sub-Harmonic Synth, Notch filters and 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:

### Type:

Two selectable Insert Processing blocks per output  
Noise Gate, AutoWarmth®, Compressor, Auto Gain Control, Peak Limiter, Sub-Harmonic Synth

### X-Over Filter Configs:

### Types:

1x1, 1x2, 1x3, 1x4, 1x5, 1x6, 1x7, 1x8, 2x2, 2x3, 2x4  
2x5, 2x6, 2x7, 2x8, 3x3, 3x4, 3x6, 3x7, 4x4, 4x8  
Bessel 6, 12, 18, 24, 36 and 48 dB per Octave  
Butterworth 6, 12, 18, 24, 36 and 48 dB per Octave  
Linkwitz-Riley 12, 24, 36, and 48 dB per Octave

### Polarity:

### Phase Control:

Positive and Negative  
0 to -180 degrees in 5 degree increments

### Output Delay Length:

1365 mSec shared between the outputs

### Miscellaneous:

### I/O Transformers:

### Control:

Optional, Jensen® JT-11 & JT-123-dbx  
Ethernet, RS-232, Optional dbx ZC Wall Panels

### Power Requirements:

100V to 240V 50/60Hz, 35 Watts

### Dimensions:

### Weight:

### Shipping Weight:

3.5" x 19" x 12.15"  
11 lbs. (14 lbs. w/audio transformers)  
12.5 lbs. (15.5 lbs. w/audio transformers)

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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