

# DriveRack® 4820

Complete Equalization and Loudspeaker Management System

**dbx**®

PROFESSIONAL PRODUCTS

## VISIONARY DESIGN

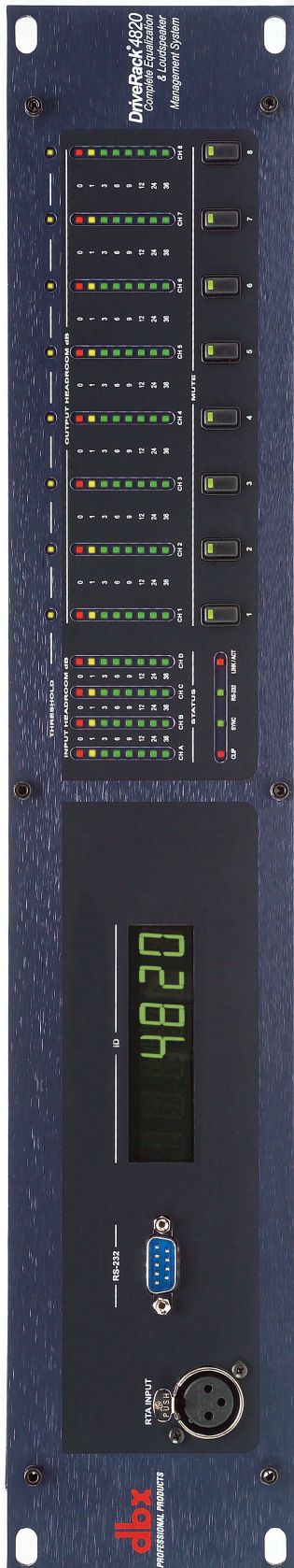
Designed to provide incredible flexibility, sonic excellence and intuitive control for performance applications, the DriveRack 4820 is the next member of the hugely successful DriveRack family. From the powerful 96 kHz DSP engine and standard analog and digital I/O, to the tamper-proof front panel, the 4820 provides all the processing, flexibility and control necessary for permanent installations.

## REVOLUTIONARY ENGINEERING

The DriveRack 4820 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 4820 includes four inputs and eight outputs with both analog and digital 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 4820 provides a tamper-proof front panel, and is controlled by an easy-to-use GUI with optional wall panel controllers; so whether your application is Front of House system processing or Distributed system control, the DriveRack 4820 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
- 4 analog and AES/EBU inputs
- 8 analog and AES/EBU outputs
- 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
- Optional dbx ZC wall panel control
- Optional CobraNet I/O
- Optional Jensen® I/O Transformers



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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:

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

### RTA Input:

(1) Analog  
 Connectors: Female XLR  
 Gain range: 20 dB to 50 dB in 10 dB increments

### Analog Outputs:

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

### Digital Outputs:

(8) AES/EBU Channels  
 Connectors: Male XLR  
 Type: Transformer Isolated, RF filtered  
 Impedance: 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  
 Range: +/- 15 dB  
 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: 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  
 Types: Positive and Negative  
 Polarity: 0 to -180 degrees in 5 degree increments  
 Phase Control:  
 Output Delay Length: 1365 mSec shared between the outputs

### Miscellaneous:

I/O Transformers: Optional, Jensen® JT-11 & JT-123-dbx  
 CobraNet® I/O: Optional  
 Control: Ethernet, RS-232, Optional dbx ZC Wall Panels  
 Power Requirements: 100V to 240V 50/60Hz, 35 Watts  
 Dimensions: 3.5" x 19" x 12.15"  
 Weight: 11 lbs. (14 lbs. w/audio transformers)  
 Shipping Weight: 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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