

Preliminary

# ZonePro 640

Digital Zone Processor

**dbx**<sup>®</sup>  
PROFESSIONAL PRODUCTS

## VISIONARY DESIGN

The ZonePro 640 has been created to provide state-of-the-art signal processing for Background Music applications, while maintaining a simple, secure and intuitive interface. From the powerful DSP modules to the multiple control interfaces, the ZonePro 640 provides all the processing and control necessary for permanent BGM installations. Additionally, the GUI interface allows any contractor to quickly set up and optimize the 640 to its full potential by streamlining the setup process and providing a menu based setup procedure that includes system setup and configuration.

## REVOLUTIONARY ENGINEERING

The ZonePro 640 is based on the same unparalleled design philosophy that made the DriveRack family famous. This philosophy, "To provide everything you need between the sources and the amplifiers," creates a full featured processor capable of almost any BGM application. The ZonePro 640 offers six inputs, two mic/line inputs on Euroblock and the remaining line inputs are on dual RCA jacks. Outputs are also on Euroblock connectors. Each input channel provides EQ, while the mic/line inputs also offer two DSP insert blocks with a selection of Compression, Notch Filtering, Auto Gain Control, Advanced Feedback Suppression (AFS™), Gating, and De-Essing. Each output zone provides a mix matrix where each of the inputs can be selected as the main source, a priority source or page source with full Ducking capability. Each output also provides Autowarmth®, full Bandpass and Crossover filtering, Parametric EQ, a selectable Dynamics module and output Delay. For more information please visit [www.dbxpro.com](http://www.dbxpro.com).

## FEATURES

- **Advanced Feedback Suppression (AFS™)**
- **Autowarmth®**
- **Auto Gain Control**
- **Classic dbx Compression**
- **Limiting**
- **Noise Gating**
- **Notch Filtering**
- **Bandpass and Crossover Filters**
- **Parametric EQ**
- **Security Lockout**
- **Wall Panel Control**
- **RS-232 PC GUI Control**
- **IEC, UL and CSA Approvals**

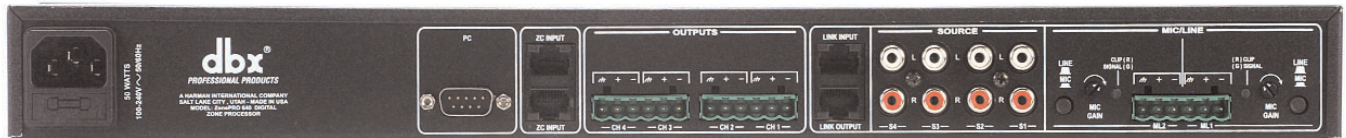


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## SPECIFICATIONS

### Analog Inputs:

Number of Inputs: (6) Device inputs.  
Connectors: Euroblock connectors, Mic/Line, RCA  
Type: Euroblock  
Type: Electronically balanced/RF filtered  
RCA: Unbalanced/RF filtered

Impedance: Balanced 50k  $\Omega$ , Unbalanced 25k  $\Omega$   
Euroblock: 25k  $\Omega$   
RCA: 25k  $\Omega$   
Max input line level: +20dBu  
Euroblock: +6dBv  
RCA: +6dBv  
CMRR: > 40dB, typically > 55dB @ 1kHz

### Analog Outputs:

Number of Outputs: 4  
Connectors: Euroblock  
Type: Electronically balanced, RF filtered  
Impedance: 120 ohms  
Max Output Level: +22dBu

### A/D Performance:

MIC/Line  
Type: dbx Type IV conversion system  
Dynamic Range line: >114 dB A-weighted, >112 dB unweighted  
Type IV dynamic range: >119 dB, A-weighted, 22kHz BW  
>117 dB, A-weighted, 22kHz BW

### RCA:

Type: 24-Bit oversampling  
Dynamic Range: >114 dB A-weighted, >112 dB unweighted  
Sample Rate: 48kHz

### D/A Performance:

Dynamic Range: 112 dB A-weighted, 110dB unweighted

### System Performance:

Dynamic Range: >109dB A-weighted, >106 dB unweighted, 22kHz BW  
THD+N: 0.003% typical at +4dBu, 1kHz  
Frequency Response: 20Hz – 20kHz, +/- 0.5dB  
Interchannel Crosstalk: >80dB typical  
Crosstalk input to output: >80dB  
Operating Voltage: 100VAC 50/60Hz, 120VAC 60Hz and 230VAC 50/60Hz  
Power Consumption: 9 Watts

### Safety Agency Approvals:

UL 6500, IEC 60065, EN 55013, E 60065

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

### FOR MORE INFORMATION CONTACT:

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