

# ZonePro™ 640/641

Digital Zone Processor

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

## VISIONARY DESIGN

The ZonePro™ products have been created to provide state-of-the-art signal processing for Background Music (BGM) applications, while maintaining a simple, secure and intuitive interface. From the powerful DSP modules to the multiple control interfaces, the ZonePro products provide all the processing and control necessary for BGM installations. Additionally, the GUI interface and Wizard function allows any contractor to quickly set up and optimize the unit 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 products are 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 products offer two mic/line inputs on Euroblock connectors, and four line inputs on mono-summing 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 routing matrix where each of the inputs can be selected as the main source or priority source. Paging can be done from the Mic/line inputs; both paging and priority override offer 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**
- **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

<p><b>Analog Inputs:</b> Number of Inputs: (6 Total) (2) Switchable line or mic inputs (4) RCA Source Connectors: Euroblock (Line and Mic) RCA (Source) Type: Electronically balanced/RF filtered Impedance: &gt; 50kΩ Balanced, &gt;75kΩ Unbalanced Max input line level: +20dBu Mic/Line, +12dBu RCA CMRR: &gt; 40dB, typically &gt;55dB @ 1kHz Mic Pre gain: 30 to 60dB Mic EIN: &lt; 118dB, 22Hz-22kHz, 150Ω Mic Phantom Power: 15V</p> <p><b>Analog Outputs:</b> Number of Outputs: (4) Connectors: Euroblock Type: Electronically balanced, RF filtered Impedance: 120 Ω balanced, 60Ω unbalanced Max Output Level: +20dBu</p> <p><b>A/D Performance:</b> Type: dbx Type IV™ conversion system Dynamic Range line: &gt;113dB A-weighted, &gt;110dB unweighted Type IV dynamic range: &gt;119 dB, A-weighted, 22kHz BW &gt;117 dB, unweighted, 22kHz BW</p>	<p>Sample Rate: 48kHz</p> <p><b>D/A Performance:</b> Dynamic Range: 112 dB A-weighted, 109dB unweighted</p> <p><b>System Performance:</b> Dynamic Range: &gt;109 dB A-weighted, &gt;106dB unweighted, THD+N: 0.003% typical at +4dBu, 1kHz, 0dB gain Frequency Response: 20Hz – 20kHz, +/- 0.5dB Interchannel Crosstalk: &gt;80dB typical Crosstalk input to output: &gt;80dB Propagation Delay: 0.6 msec Operating voltage: 100 VAC, 50/60Hz, 120 VAC, 60Hz, 230VAC 50/60Hz Power Requirements: 29 Watts</p> <p><b>Physical:</b> Weight: 68 lbs (31 kg) Shipping weight 88 lbs (40 kg) Dimensions: 1.75" H x 5.75" D x 19" W</p> <p>Safety Agency Certifications: UL 60065, IEC 60065, E60065, EN 55013</p>
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dbx engineers are constantly working to improve the quality of our products. Specifications are, therefore subject to change without notice.

### Architects' and Engineers' Specifications:

The device shall provide two balanced inputs that are selectable as line or mic level with phantom power; additionally there shall be four mono-summing RCA line inputs. The line inputs and output gains shall be controllable via software; the mic inputs shall be adjustable from the rear panel. Analog audio inputs and outputs shall be accessible via rear panel RCA and Euroblock connectors.

The signal processing Graphic User Interface (GUI) software shall be user programmable using Windows® 2000 and XP operating systems. Software control shall be via RS-232 protocol and the DB-9 shall be located on the rear panel. The GUI shall provide display, configuration and control of all signal processing functions including, but not limited to: • Input Gain • Highpass Filtering • Parametric Equalization • Compression • Limiting • Gating • Automatic Gain Control • Ducking • De-Essing • AutoWarmth® • Advanced Feedback Suppression (AFS™) • Notch Filters • Signal Routing • Bandpass Filtering • Delay • Polarity

Front panel controls shall include output zone volume, source select, and muting for each zone and dynamic page selection for both page inputs (640 only). A PC DB-9 connector shall also be located on the front panel (641 only). The front panel shall also include output level meters with a 6-segment LED meter and output dynamics threshold LED (640 only).

External control shall include scene selection, output level control and muting, and shall be via industry-standard CAT5 cable with RJ45 connectors. All program memory shall be non-volatile providing program security should power or computer fail.

Audio conversion shall be 24-bit 48 kHz. The dynamic range of the processor shall not be lower than 110 dB A-weighted.

The device shall have an IEC power socket. The unit shall meet UL/CSA and CE safety requirements. The unit shall be constructed of cold-rolled steel with a brushed and anodized aluminum front panel, and mount into a standard 19" 1U EIA rack. The device shall be a dbx ZonePro 640 and/or 641.

### FOR MORE INFORMATION CONTACT:

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