

SPECIFICATIONS



ZonePro™ Family

Multi-Zone Commercial Audio Processors



640/641 Front and Rear

Analog Inputs:
Number of Inputs: (6 Total-640/641) (12 Total-1260/1261)
Connectors: Euroblock(Line and Mic)
RCA (Source)

Type: S/PDIF (1260/1261 Only)
Impedance: Electronically balanced/RF filtered
Max input line level: > 50kΩ Balanced >75kΩ Unbalanced
CMRR: > 20dBu Mic/line, +12dBu RCA
Mic Pre gain: > 40dB, typically >55db @ 1kHz
Mic EIN: < 118dB, 22Hz-22kHz, 15Ω
Mic Phantom Power: 15V

Analog Outputs:
Number of Outputs: (4-640/641) (6-1260/1261)
Connectors: Euroblock
Type: Electronically balanced, RF filtered
Impedance: 120 Ω Balanced, 60Ω unbalanced
Max Output Level: +20dBu

A/D Performance:
Type: dbx Type IV™ conversion system
Dynamic Range: >113 dB A-weighted, >110 dB unweighted

Type IV Dynamic Range: >119 dB, A-weighted, 22kHz BW>117 dB, unweighted, 22kHz BW

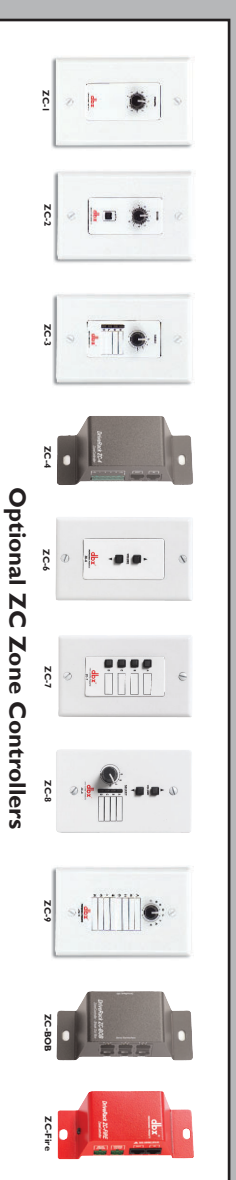
Sample Rate: 48kHz

D/A Performance: 112 dB A-weighted, 109dB unweighted

System Performance:
Dynamic Range: >109 dB A-weighted, >106dB unweighted,
0.003% typical at +4dBu, 1kHz, 0dB gain
THD+N: 20Hz – 20kHz, +/- 0.5dB
Frequency Response: >80dB typical
Interchannel Crosstalk: >80dB
Crossstalk input to output: >80dB
Propagation Delay: 0.6 msec
Operating voltage: (100-120 VAC, 200-240 VAC 50/60 Hz - 640/641), (100-240 VAC 50/60 Hz - 1260/1261)
Power Requirements: 29 Watts

Physical:
Weight: 6.8 lbs(3.1 kg) Shipping weight 8.8 lbs. (4.0 kg)
Dimensions: 1.75" H x 5.75" D x 19" W

Safety Agency Certifications:
UL 60065, IEC 60065, EN 55013, E 60065



Optional ZC Zone Controllers

A Harman International Company

dbx Professional Products • 8760 South Sandy Parkway • Sandy UT 84070 • Phone (801) 568-7660 • Fax (801) 568-7662
Int'l Fax (801) 568-7583 • email: customer@dbxpro.com • URL: <http://www.dbxpro.com>



PROFESSIONAL PRODUCTS

The Professional's Choice In Signal Processing™

www.dbxpro.com

18-0546-A 10/04

Complete Solution

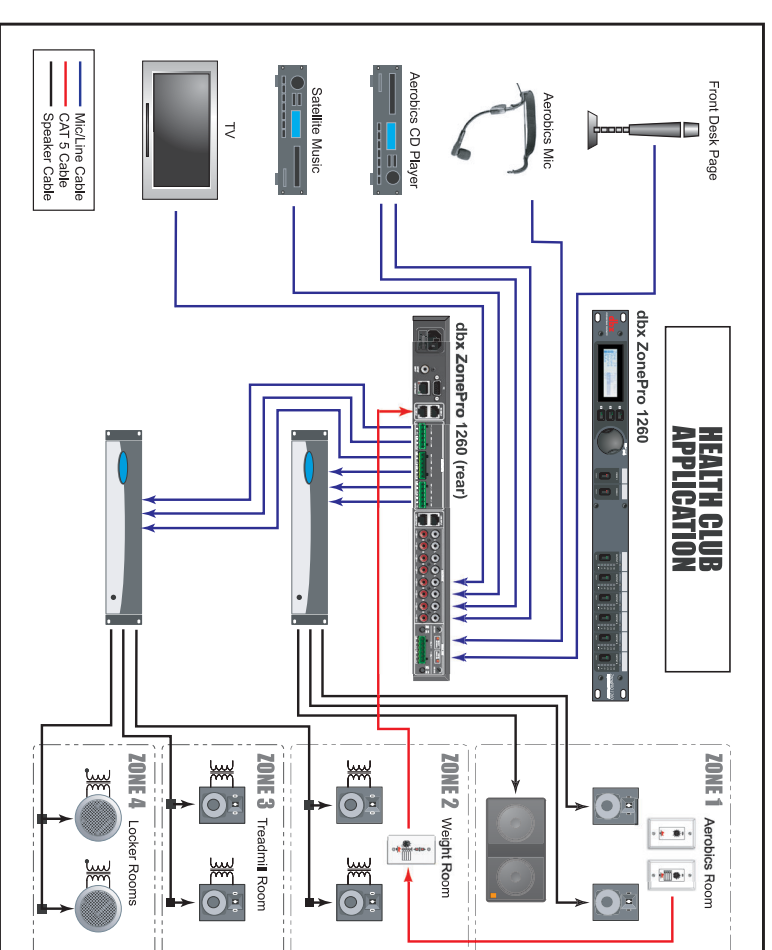
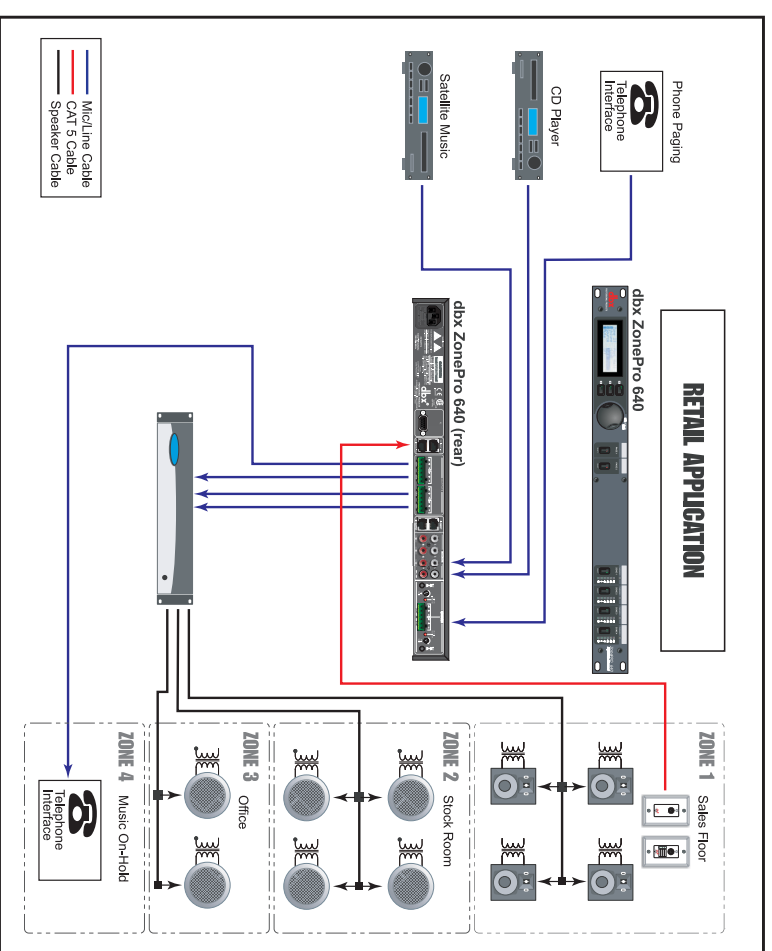
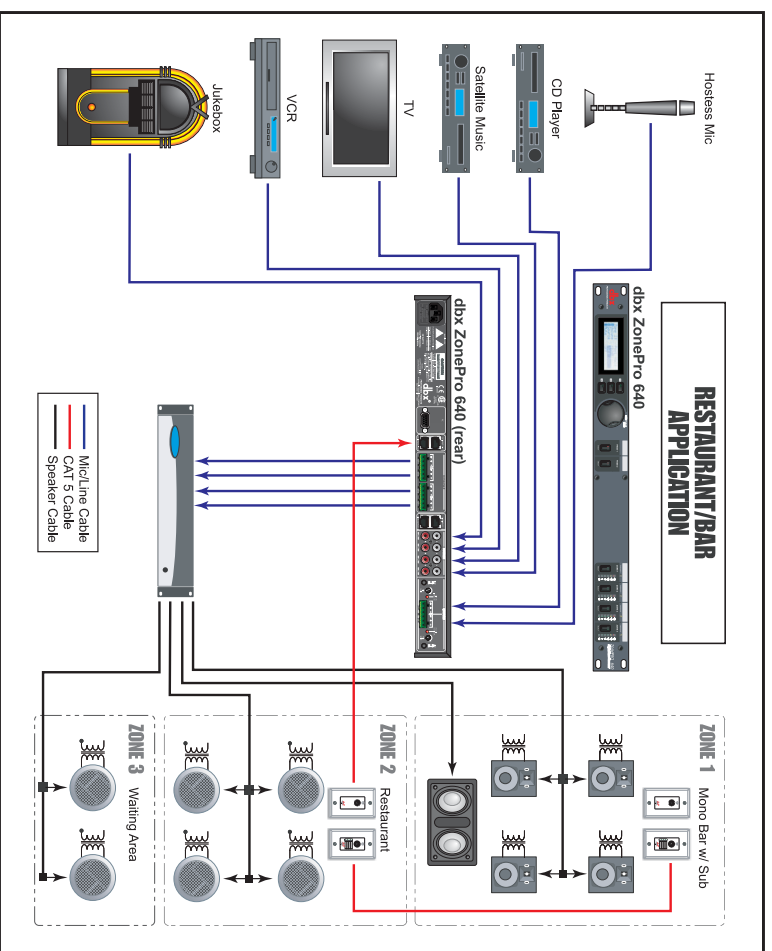
The dbx ZonePro™ 640, 641, 1260 and 1261 were designed to provide flexible programmable zone processing for multi-zone commercial applications.

With six inputs and four outputs on the 640 and 641 and 12 inputs and six outputs on the 1260 and 1261, the ZonePro products are incredibly flexible allowing any input to be a primary or priority override source, and two inputs designated as paging sources. Outputs are also highly configurable with combinations including, mono and stereo zones, and zones with subwoofers.

The ZonePro products provide every tool required for maximizing system performance; from paging microphone functions like Gating and Feedback Suppression, to system processing such as EQ, Crossovers, Dynamics, and Delay. The included GUI comes complete with a Wizard function that speeds system setup. The GUI also allows programming of the end-user controls like the ZC wall panels and/or the front panels of the 640 and 1260.

From signal routing to control to processing, the ZonePro products are complete multi-zone audio solutions.

Example Applications



FUNCTIONS
Each processing module can be edited by clicking on its icon.

INPUT

The input module allows input gain control, and in the first two inputs, Highpass Filter control is also available for reducing microphone handling noise or other undesirable sonic characteristics.

INPUT EQ

All the ZonePro inputs provide EQ. The first two inputs have a four-band parametric EQ for microphone tonal control, while the other inputs have a two-band parametric EQ for tonal shaping of the source.

INPUT INSERTS

Two DSP inserts are available on the mic/line inputs for microphone processing. These inserts provide selectable DSP functions including: Feedback Suppression (AFS™), Notch Filtering, Gating, Compression, De-Esser, and Automatic Gain Control.

FILE

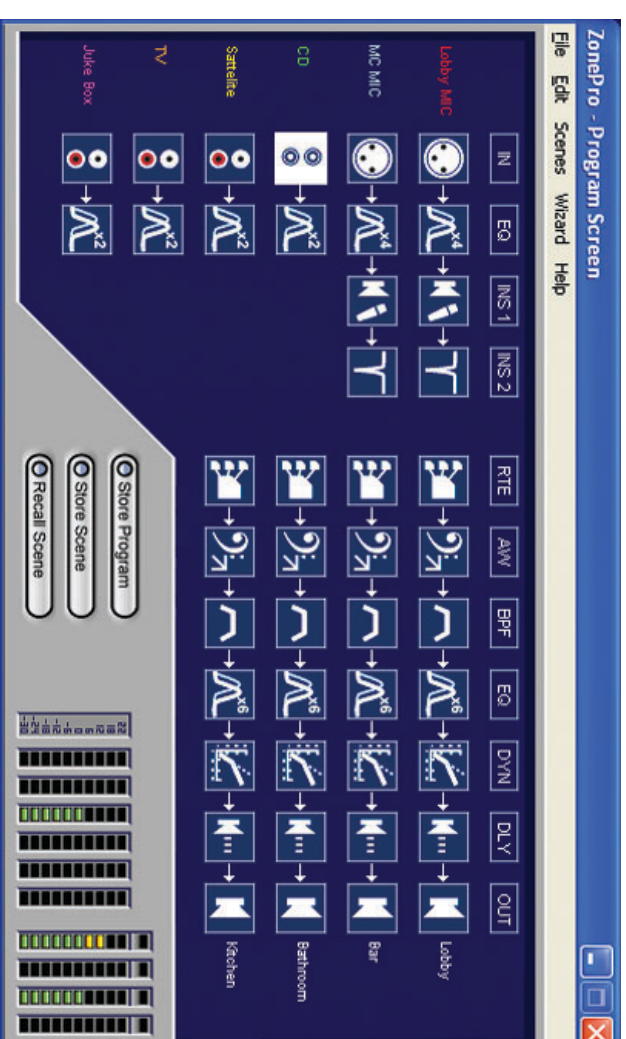
The ZonePro allows importing and exporting of program files to the computer for later use in system duplication or off-line editing.

SCENES

Scenes are snapshots of the ZonePro configuration and parameters. Scenes can be stored and recalled from either the Real Time Clock or from Zone Controllers.

WIZARD

The Wizard function provides a quick and intuitive method of system configuration and setup. The Wizard allows setup of signal routing, controllers, and DSP selection.



DYNAMICS

To provide system protection, the ZonePro allows selection between output Compression, Limiting or Automatic Gain Control.

DELAY

The ZonePro offers over 400 mSec of output Delay for signal aligning of the system or speakers.

OUTPUT

The output module of the ZonePro provides polarity control of the output signal.

Features

- Programmable Wall Panels
- Parametric EQ
- Advanced Feedback Suppression
- Compression
- De-Essing
- Gating
- Limiting
- Input Highpass Filters
- Auto Gain Control
- AutoWarmth®
- Crossover and Bandpass Filters
- Delay
- Security Lockout
- Event Scheduler

ROUTING RTE
Every output zone has its own individually selectable primary source, priority override source and paging source. These sources can be selected and ducking can be setup for both priority override and paging. Output level control is also found in the Routing section.

AUTOWARMTH® AWW
AutoWarmth® is a psychoacoustic function that maintains full frequency bandwidth even when the signal level has dropped.

BANDPASS FILTERS EPF
Bandpass Filters can be used as Crossovers for subwoofers, or to maximize the performance of speakers by limiting the output of band information.

OUTPUT EQ

A six-band parametric EQ is available on all outputs to maximize the sonic performance of the speakers.