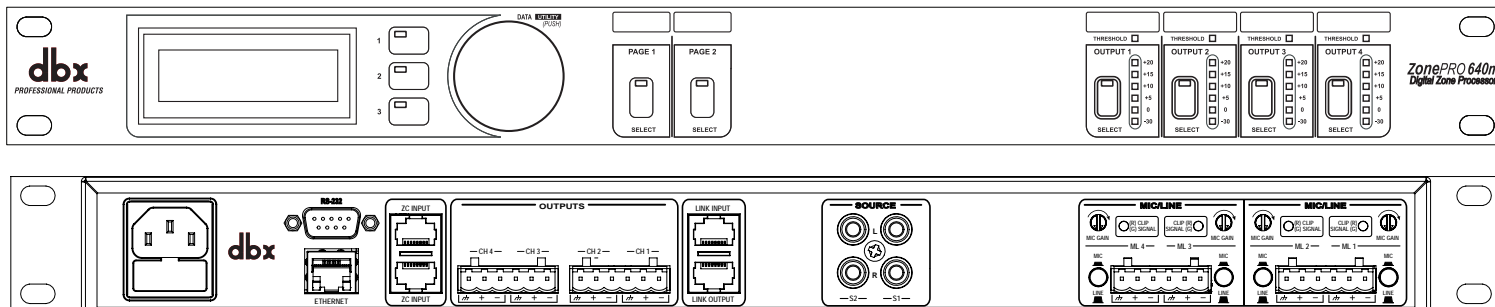


# dbx ZonePRO™ 640m



**OVERVIEW:**

The ZonePRO 640m offers fixed I/O, pre-configured architecture, configurable insert processing and optional duplication of audio channels to another ZonePRO device via a link bus.

The 640m features a total of six inputs and four outputs. Inputs include four balanced mic/line switchable terminal block inputs and two mono-summed pairs of unbalanced RCA inputs. Hardware-controlled microphone gain allows adjustment of microphone gain per channel.

The 640m device has a pre-configured architecture with input processing, a central matrix and output processing. Two input insert positions and one output insert position allow channel-specific insert processing to be configured. AutoWarmth®, a psychoacoustic function that maintains full frequency bandwidth even when the signal level has dropped, is permanently available on each output zone.

A link bus allows duplication of the first six audio channels to another ZonePRO device in applications where additional output zones are required.

The front panel of the 640m features comprehensive signal metering, an informative LCD display and user-specified front panel control.

Additional system control is offered in the form of optional Zone Controllers. This collection of hardware wall-controllers represents a series of simple, elegant user interfaces for functions such as volume, source and preset control.

All ZonePRO devices can be controlled by third party control systems via RS-232 or Ethernet as applicable (see table for further information).

ZonePRO Designer—the configuration, control and monitoring software for the ZonePRO family of devices—offers control of the ZonePRO 640m via Ethernet or RS-232. The Configuration Wizard within ZonePRO Designer guides users through the step-by-step configuration process of the 640m.

**KEY FEATURES:**

- 6 Inputs / 4 Outputs
  - 4 Balanced Mic/Line Inputs
  - 2 Unbalanced, Mono-Summed RCA Input Pairs
- Microphone Gain on Channels 1-4
- Pre-Configured Architecture
- Two Configurable Input Insert Positions
- One Configurable Output Insert Position
- AutoWarmth® per Output Zone
- Link Bus
- Comprehensive Signal Metering
- Front Panel LCD
- User-Specified Front Panel Control
- Optional ZC Controllers
- Ethernet Control
- Serial Control
- Third Party Control
- Wizard-Driven Configuration



# ZonePRO™ 640m

**TECHNICAL SPECIFICATIONS:**

**Front Panel LED Indicators:**

Per Output: 4 Independent Six-Segment Lightpipe Output Meters that range from -30 to +20 dBu, Threshold Meters  
 Other: LCD Display provides information about Source Selection, Page Steering, Zone Volume and Mute

**Analog Inputs:**

6 Total (4) Switchable Mic or Line, (2) Unbalanced, Mono-Summed RCA Input Pairs  
 Type: Euroblock (Mic/Line), RCA (Source)  
 Impedance (Euroblock): >50kΩ Balanced, >25kΩ Unbalanced, RF Filtered  
 Impedance (RCA): >25kΩ Unbalanced, RF Filtered  
 Max. Input Line Level: +20dBu Mic/Line, +12dBu RCA  
 CMRR: >40dB, typically >55dB @ 1kHz  
 Mic Pre Gain: 30 to 60dB  
 Mic Input Noise (E.I.N.): <-118dBu, 22Hz-22kHz, 150Ω Source Impedance  
 Mic Phantom Power: +15VDC

**Analog Outputs:**

4 Total  
 Type: Electronically Balanced, RF Filtered Euroblock  
 Impedance: 120Ω Balanced, 60Ω Unbalanced  
 Max. Output Level: +20dBu

**A/D Performance:**

Type: dbx Type IV™ Conversion System  
 Dynamic Range Line: >113dB, A-weighted, >110dB unweighted  
 Type IV Dynamic Range: >119dB, A-weighted, 22kHz BW: >117dB, unweighted, 22kHz BW  
 Sample Rate: 48kHz

**D/A Performance:**

Dynamic Range: 112dB A-weighted, 109dB unweighted, 22kHz BW

**System Performance:**

Dynamic Range: >109dB A-weighted, >106dB unweighted, 22kHz BW  
 THD+N: 0.003% typical at +4dBu, 1kHz, 0dB gain  
 Frequency Response: 20Hz – 20kHz, +/- 0.5dB  
 Interchannel Crosstalk: >80dB typical  
 Crosstalk input to output: >80dB  
 Propagation Delay: 0.6 msec  
 Operating voltage: 100 VAC, 50/60Hz, 120 VAC, 60Hz, 230VAC 50/60Hz  
 Power Requirements: 29 Watts  
 BTU Rating: <92.13 BTU

**Physical Dimensions:**

Weight: 6.05 lbs / 2.74 kg Shipping Weight 8.2 lbs / 4 kg  
 Dimensions (H(U) x W x D): 1.75" (1U) x 19" x 7.75" (45mm x 483mm x 197mm)  
 Safety Agency Certifications: UL 60065, IEC 60065, E 60065, EN 55013

	Inputs	Outputs	Front Panel Control	Mic Preamps	S/PDIF	Ethernet	Mix Functionality	ANC*
1260m	12	6	✓	6	✓	✓	✓	✓
1260	12	6	✓	2	✓	✓	✓	
1261m	12	6		6	✓	✓	✓	✓
1261	12	6		2	✓	✓	✓	
640m	6	4	✓	4		✓	✓	✓
640	6	4	✓	2				
641m	6	4		4		✓	✓	✓
641	6	4		2				

\*Ambient Noise Compensation