

Digitool™ MX



The Digitool™ MX is a fully programmable audio processing and control system. It includes advanced parallel DSP processing, a multi-layer front panel display, and multiple interface and control options. Signal processing is accomplished using two 32-bit parallel SHARC processors with a combined power of 132 Mips. The Digitool MX gives the system designer an economical alternative to design, and is considerably more powerful than similarly priced components.

The Digitool MX's host processor and non-volatile flash memory maintain user-defined configurations and allow interface via the unit's front panel control and optional external control interfaces. Completely upgradable through a standard serial connection to a PC, the Digitool MX allows the system designer to upgrade to the latest version without removing the unit from the rack and disassembling the chassis.

The graphic display is capable of displaying real-time audio signal activity, active presets, and control information for audio processes, as well as monitoring critical variables such as internal cabinet temperature and power presence.

Features:

- Eight balanced analog line/mic inputs
- Phantom power
- Eight balanced analog line outputs
- 24-bit A/D and D/A converters
- Up to 96 kHz sample rate
- Sixteen front panel dual-color LED indicators
- Three front panel parameter controls
- Large 64 x 128 pixel display with back light
- Jog/select control encoder for navigating the display
- 32-bit parallel processing by two ADI SHARC DSPs
- RS-232 connection for easy set-up and operation
- RS-485 connection for remote serial functions
- Four assignable control input ports(analog)
- Worldwide-compatible power supply
- Jog/select control encoder for navigating the display

Digitool™ MX

Audio Channels:	8 inputs / 8 outputs - Line or Mic level
LED Metering:	8 input / 8 output peak reading dual color LEDs
LED Status:	Red = -0.5dBFS and higher (Clip), Red & Green = -4 to 0.5 dBFS Green = -4 to -40dBFS, Off = below -40dBFS
INPUT:	
Analog Trim Range:	-6 to +6dB - Software Controlled
Line Sensitivity Settings:	+30dBu, +24dBu, +18 dBu, +12 dBu - Software Selectable
Mic Gain Range:	+15 to +50dB - 1/2 dB steps
Input Impedance:	6.6k Ohms - Electronically Balanced
Phantom Power:	+24V
CMRR:	55dB
Crosstalk:	>90dB @ 1kHz
Dynamic Range:	104dB A weighted, 150 Ohm input termination
OUTPUT:	
Output Full Scale Settings:	+24dBu, +18dBu, +12dBu, +6dBu - Software Selectable
Output Impedance:	102 Ohms - Electronically Balanced
Minimum Load Impedance:	600 Ohms, Maximum output @ 600 Ohms = 22.5dBu
Dynamic Range:	109dB A Weighted
ANALOG INPUT TO OUTPUT:	
Total Harmonic Distortion:	0.01% 20Hz to 20kHz, 22kHz BW Filter +4dBu signal w/ 20dB headroom
Frequency Response:	20Hz to 20kHz +/- 0.5% dBr referenced at 1kHz
Dynamic Range:	103dB, A Weighted, 150 Ohm input termination
Latency:	1.4mS, propagation delay from input to output
DIGITAL:	
Sample Rate:	44.1kHz, 48kHz, 96kHz
Quantization:	24-bit, 256 x-over-sampled Delta-sigma A to D, and D to A
Digital Processing:	132 Mips, Uses 2 ADI SHARC processors
Master CPU Clock Speed:	6MHz
DSP Cycle Speed:	66MHz
CONTROL:	
RS-485:	Half-Duplex 57.6 kBaud, 1 port with 2 multiple drop RJ-45 connectors
RS-232:	56.7 kBaud, Standard dB-9 Serial cable connector (female)
CV Inputs:	0 to 10V, with an external voltage applied or remote passive potentiometer
GENERAL:	
Dimensions:	19" W x 12.25" D x 3.5" H (48.26cm W x 31.12cm H x 8.89cm D) without connectors
Net Weight:	11.6 lbs. (5.26 kg)
AC Power Input Voltage:	100 VAC to 240 VAC, 47Hz to 63Hz universal power supply
Power Consumption:	20.7W @ 100V (330mA), 20.5W @ 120V (321mA), 22.7W @ 240V (206mA)
Power Dissipation:	70.7 BTU @ 100V, 70.0 BTU @ 120V, 77.5 BTU @ 240V
Agency Compliance:	UL, CUL, CE, FCC Part 15
Listings:	Class B

MADE IN THE UNITED STATES



Logo referenced in Directive 2002/96/EC Annex IV (OJ(L)37/38, 13.02.03 and defined in EN 50419: 2005
The bar is the symbol for marking of new waste and is applied only to equipment manufactured after 13 August 2005



Commercial Audio

Digitool MX - Pg. 2

Features and specifications subject to change without notice.

Peavey Electronics Corporation
5022 Hartley Peavey Drive
Meridian, MS 39305
(601) 483-5365 • FAX (601) 486-1278 • www.peavey.com

PRINTED IN THE U.S.A.