XD SERIES

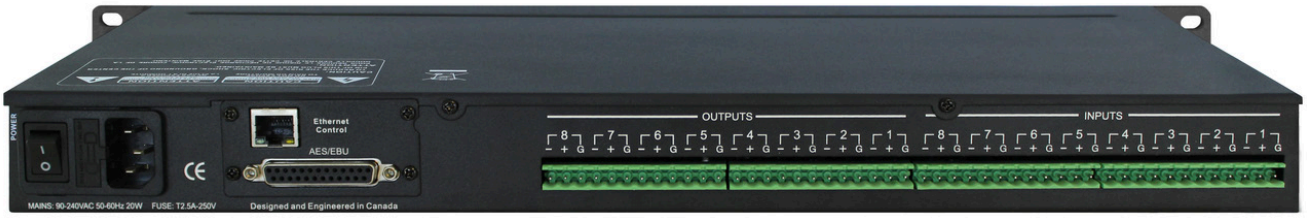
Fixed-Architecture, Fully-Featured DSP

An evolution of the famed DLP family of processors, Xilica's XD Series delivers uniquely-advanced features in a small-format, affordable footprint for the live sound and performance audio markets.

- XD Series products provide an outstanding value-to-performance ratio, as the only DSPs that sample at 96kHz, use a 40-bit floating point DSP, and feature 24-bit converters within its price category
- Features a broad range of advanced signal processing functions alongside standard Xilica suite, including high-performance FIR crossover filters, 650ms delay per input/output, phase correction, and dual IIR crossover per input/output
- Comes as standard with AES/EBU digital I/O using DB-25 multi-pin connector to suit larger digital deployments
- Two I/O model sizes keep stocking and deploying simple for rental, MI and live sound providers, whilst also giving optimal cost-savings by minimising unneeded channel counts
- Wide range of control options allows for ultimate in user flexibility: Touch 7 touch-screen compatibility permits advanced GUI commands for commercial installation alongside the use of low-cost, wall-mounted XTouch panels
- Features optional XTouch Android app for sophisticated end-user experience

Engineer's Specification

Model versions shall provide four (4) or eight (8) balanced analog line inputs plus four (4) or eight (8) AES/EBU digital audio inputs along with eight (8) balanced analog line outputs and eight (8) AES/EBU digital outputs (models XD-4080 & XD-8080). 4080-M & 8080-M model versions provide Mic/Line inputs, whilst sampling frequency is 96kHz and high performance 24-bit A/D & D/A converters and 40-bit floating point DSP processing is utilized. Analog audio connections shall be accessed via rear mounted XLR connectors (XD-4080) or 5.080mm terminal block connectors (XD-8080). AES/EBU digital audio I/O is via a separate DB-25 multi-pin connector available on all model designations. After initial programming, processors may be controlled via TCP/IP using optional networked controls (Cat6) or via third-party control systems using the RS232 connection. All program memory shall be non-volatile and provide program security should power fail. The processors shall be ETL marked and comply with UL/CSA/CE safety requirements, FCC emission requirements, and shall be compliant with the RoHS directive. The steel chassis mounts into a standard 19" 1U EIA rack. Warranty shall be 3 years parts and labor. The DSP shall be the XD Series.



Above: Rear panel view of the XD8080, with Phoenix connector I/O section.

Above: Rear panel view of the XD4080, with XLR I/O section.

Available Model Variants

	Base Model with XLR I/O	Base Model with Phoenix I/O	Selectable Mic/Line Inputs & 48V with XLR I/O	Selectable Mic/Line Inputs & 48V with Phoenix I/O
4x8 I/O	XD-4080		XD-4080M	
8x8 I/O		XD-8080		XD-8080M

Technical Specifications

Input impedance	>10k Ohms
Output impedance	50 Ohms
Maximum level	+20dBu (mic gain: 0 / +40dB steps)
Type	Electronically balanced (w/48V Phantom)
Frequency response	+/- 0.1dB (20 to 30kHz)
Dynamic range	115dB typ (unweighted)
CMMR	> 100db (50 to 10kHz)
Crosstalk	< -100dB
Distortion	0.002% (1kHz @ +4dBu)

Processor	40-bit Floating Point
Sampling rate	96kHz
Analog converters	Super-performance 24-bit
Propagation delay	1.5ms
Connectors	Phoenix 3.5mm, XLR, DB-25, Cat-5, USB, RS232, standard IEC power socket
Power	90-265 VAC (50-60Hz)
Dimensions	19”x1.75”x9” (483x44x229mm)
Weight	10lbs / 4.6kg

XILICA

Customer Support

If you’d like to contact us regarding product support or technical designs, email support@xilica.com and we’ll connect you with a solutions engineer. Alternatively, if you’d like to speak to someone, you can call the following numbers for immediate assistance:

North America & Rest of World: +1 905-770-0055

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China & Hong Kong SAR: +852 2604-9382