



XP-2040

- 2 x XLR Line Inputs / 4 x XLR Line Outputs (XP-2040”M” version provides switchable Mic/Line inputs w 48v phantom power).
- Ethernet, USB, and RS232 Connectivity for Configuration and Control (wireless ready) (up to 16 devices in a Xilica network).
- 96kHz, 40 Bit Floating Point DSP Engine and High Performance 24 Bit Converters.
- Processor Configuration via Front Panel or easy to use XConsole Software GUI.
- Matrix Mixer.
- 31 Band, 1/3 Octave GEQ per Input.
- 8 Band PEQ per Input and Output.
- Dual Crossover Filters per Input and Output with Bessel, Linkwitz-Riley & Butterworth Slopes.
- 640ms Delay per Input and Output.
- Input Compressors and Output Limiters.
- Phase Correction.
- High Performance Switching Power Supply.
- 30 Presets / Password Protection.
- Optional XPanel Wall Control.
- Designed and Engineered in Canada.
- Warranty: 2 Years Parts and Labour.

Introduction:

The Xilica XP-Series is the little brother of our top of the line XD family of digital processors (the major difference between the two being the addition of FIR filters and Digital inputs & outputs on the XD models).

Building on the success of the XD and our original Classic series processors the Xilica XP-Series brings a new level of audio performance and value to the world of fixed architecture DSP for live sound production and fixed audio installations.

Designed and engineered in Canada, only Xilica provides a “state of the art” 96kHz 40 Bit Floating Point DSP Engine, High Performance 24 Bit Converters, and Precise Algorithms at this value level. The result is “best in class” audio performance.

Description:

The XP-2040 model is a 2 input/4 output fixed architecture, fully programmable, digital, audio system processor. Inputs can be matrix mixed/routed to any or all outputs; Ethernet, USB and RS232 connectivity for configuration, control and software/firmware updates is standard; Processor configuration can be accomplished in real time from the front panel or with a computer running our easy to use XConsole software GUI (download XConsole at www.xilica.com); And with the Ethernet connection and a basic wired or wireless router the XConsole GUI can control individual or multiple XP-Series (and XD series) processors from any location.

Applications:

Front-Of-House Loudspeaker Management; Floor Monitors; Time/Phase Crossover Alignment; Fixed Audio Installations; Delayed Speakers; Zoned Systems; Room Equalization; Acoustic Correction.





XP-2040

Specifications

Inputs and Outputs

Input Impedance: >10k Ohms
 Output Impedance: 50 Ohms
 Maximum Level: +20dBu
 Type: Electronically balanced
 ("M" model version provides switchable mic/line inputs with 48v phantom power)

Audio Performance

Freq Response: +/- 0.1dB (20 to 30kHz)
 Dynamic Range: 115 dB typ (unweighted)
 CMMR: >100dB (50 to 10kHz)
 Crosstalk: < -100dB
 Distortion: 0.002% (1kHz @ +4dBu)

Digital Audio Performance

Processor (DSP): 40-Bit Floating Point
 Sampling Rate: 96kHz
 Analog Converters: Super Performance
 24-bit
 Propagation Delay: 1.5ms

Audio Control Parameters

Gain: -40 to +15dB in 0.25 dB steps
 Polarity: +/-
 Delay: Up to 650 ms per I/O

Equalisation

Variable Equalizers: 8 per I/O
 Type: Parametric, Hi-shelf, Lo-self, Phase (1st and 2nd order)
 Gain: -30 to +15dB in 0.25dB steps
 Bandwidth: 0.02 to 2.50 Oct (Q=0.5 to 72)
 Graphic EQ: 1 per Input, 31 Band 1/3 Oct steps

Crossover:

2 Individual filters per I/O
 Type: Butterworth, Linkwitz Riley, Bessel
 Slopes: 6 to 48dB per Octave

Compressors and Limiters

1 Compressor per input channel
 1 Limiter per output channel
 Threshold: -20 to +20dBu
 Attack: 0.3 to 100ms
 Release: 2 to 32x the attack time
 Ratio: 1:1 to 1:40 (Compressor Only)

System Parameters

No. Of Programs: 30
 Delay Units: ms, ft, m
 Frequency Modes: 36 steps/Oct, 1Hz Resolution
 Security locks: Password
 Channel names: 6 Characters

Front Panel Controls

Display: 2x16 Characters Backlit LCD
 Level meters: 5 Segment LEDs
 Buttons: 6 Mute/Channel Controls
 6 System Menu Controls
 1 Dial Encoder

Connectors

Analog: 3-pin XLR
 (All XP-8080 models use Phoenix input/output connectors in place of XLR's)
 RS-232: Female DB-9
 USB: Type B
 Ethernet: Standard CAT-5
 Power: Standard IEC Socket

General

Power: 90-265 VAC (50/60Hz) – 20VA
 Dimensions: 19"x1.75"x9"
 (483x44x229mm)
 Weight: 10 lbs / 4.6 Kg
 EAN Code: 885799030014
 Designed and Engineered in Canada
 Warranty: 2 Years Parts and Labour

Note: specifications subject to change without notice