



XP-2040

- **2x4 matrix DSP system controller**
- **Supplied with XConsole GUI**
- **Connectivity RS232, USB and CAT5 Ethernet (wireless ready)**
- **24 bit AD/DA converters**
- **Sampling rate 96 kHz – 40 bit floating point DSP**
- **650ms Delay per Input and Output**
- **Crossovers, Compressors and Limiters**
- **31 Band, 1/3 Octave GEQ per Input**
- **8 Band PEQ per Input and Output**
- **Phase correction, 30 Presets, Password protection**
- **Up to 16 devices in the same network**
- **Optional: XPanel programmable Ethernet remote wall controller**

Available as XP-2040 or as XP-2040M were all inputs can be adjusted for either Line or Microphone levels, switchable 48 Volt Phantom power included.



Six years after we introduced our first classic series processors, we redesigned the total concept:

- Incorporated our latest four layer “ State-of-the-Art “ Analog and DSP boards.
- Carefully sourced top quality components, like Cirrus Logic converters and an Analog Devices Sharc DSP, that we programmed using accurate and precise algorithms.
- Added a reliable over dimensioned Japanese Switching Power Supply that accepts voltages between 90 up to 265 volts AC.

The XP-2040 can be configured stand alone, or (wireless) remote controlled via the supplied XConsole GUI. This Graphic User Interface not only gives a clear overview off all settings, but at the same time provides you with real time hands on control over all your system parameters. For both fixed and touring applications, the XP-2040 offers you reliable top high end audio quality at a friendly and unbeatable price point.



XP-2040

Specifications

Impedance

Input Impedance: >10k Ohms
 Output Impedance: 50 Ohms
 Maximum Level: +20dBu
 Type: Electronically balanced

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
 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

Note: specifications subject to change without notice