





## **XILICA AUDIO DESIGN** high-performance systems

Xilica Audio Design is a professional audio company specialising in designing, developing and manufacturing high performance audio systems. While working inline with the motto 'From Cool Designs to Cool Products', the Xilica staff is dedicated to the high-tech audio electronics industry, translating conceptual innovations into commercial applications.

Xilica is dedicated to the professional audio industry and its products mainly focus into high performance systems targeting both the professional and installation market. Xilica engineering staff pay close attention to electronic components selection, careful PCB layouts and precise system integration. It's goal is to develop and manufacture high-quality products at a reasonable price. Xilica dedicate its professionalism and uncompromising attitude towards its engineering details in each of its products.

## XD-8080 8x8 top of the line digital loudspeaker controller



Designed to achieve top-quality sound, intuitive control and excellent performance, the XD series is the newest flagship DSP processor family.

With its FIR Finite Impulse Response Linear Phase Filters (also referred as Brick Wall Filters), it surpasses conventional IIR Infinite Impulse Response Filters with its predictable linear response. Conventional IIR Filters are also available.

Newly included in the device are the compressors, crossovers and phase filters. By employing the most up-to-date DSP and hardware electronics technologies, the XD positioned itself among the top players in the pro-audio industry.

### features

- 4x8, 8x8 In-Out Configurations
- Precise DSP Algorithms
- Top-notch Audio Converters
- Linear Phase (Brick Wall) Filters
- 8 Bands PEQ per Channel
- Phase Correction

- Input and Output Crossovers
- Input and Output Compressors
- AES/EBU for 4x8 In-Outs
- Built-in Ethernet Connectivity



### Inputs and Outputs

- input impedance: >10k Ohms
- output impedance: 50 Ohms
- maximum level: +20dBu
- bu type: Electronically balanced

### Audio Performance

- freq response:  $\pm 0.1$ dB (20 to 20kHz)
- dynamic range: 115dB typ (unweighted)
- CMMR: > 100dB (50 to 10kHz)
- crosstalk: < -100dB
- distortion: 0.002% (1kHz @+4dBu)

### Digital Audio Performance

- processor: 40-bit floating point
- sampling rate: 96kHz
- analog converters: Super Performance 24-bit
- propagation delay: 1.5ms (2 - 12ms for FIR)

### Front Panel Controls

- Display: 4 x 32 Character Backlit LCD
- level meters: 5 segment LEDs
- Buttons: 12 Mute Controls  
12 Gain/Menu Controls  
6 Menu Controls
- Dial Encoder: Embedded Thumb Wheel

### Connectors

- audio input: Analogue/Digital Audio:  
3-pin XLR
- RS-232: Female DB-9
- ethernet: Standard CAT-5
- power: Standard IEC Socket

### General

- power: 90-265 VAC (50 / 60Hz)
- dimensions: 483 x 44 x 229 mm
- weight: 4.6 kg

### Audio Control Parameters

- gain: -40 to +15dB in 0.25dB steps
- polarity:  $\pm$
- delay: Up to 650ms per I/O

### Equalizers (8 Per I/O)

- type: Parametric, Hi-shelf, Lo-shelf, Phase
- gain: -30 to +15dB in 0.25dB steps
- bandwidth: 0.02-2.50 octaves (Q=0.5-72)

### Crossover Filters (2 Individuals Per Output)

- filter types: Butterworth, Bessel, Linkwitz Riley, FIR
- slopes: 6 to 48dB/oct for IIR  
50-400 for FIR

### Limiters

- threshold: -20 to +20dBu
- attack: 0.3 to 100ms
- release: 2 to 32x the attack time

### System Parameters

- no. of programs: 30
- configuration: Generic, 2, 3, 4-Way
- Delay Units: ms, ft, m
- Frequency Modes: 36 steps/oct, 1Hz resolution
- Security Locks: Any individual menu
- Channel Names: 6 characters



## XM-2040 2-in 4-out digital loudspeaker control module

XM Series Miniature Modules are designed to provide the simplest and easiest way for loudspeaker designers to concentrate on what they do best: Loudspeaker designs.

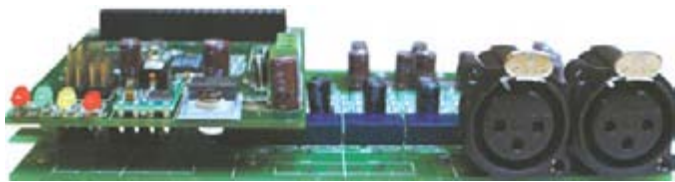
With the combination of off-the-shelf amplifiers, the designer can take advantage of our superb DSP technology to overcome the crossover challenges. All complex signal processing is done by the XM.

Precise parameters can be fine tuned and matched exactly to the specific requirements of the loudspeakers. Presets can be used to perform

comparison tests, or retrieved as different settings for different production models. Noise floor is around -115dB which is consistent with the whole Xilica product line.

### features

- 2-in 4-out Configurations
- Targeted for Active Loudspeaker Integration
- Miniature Module Design
- SAXilica performance with embedded technology
- Program or Real-Time Control via Software
- RS232 or optional Ethernet Connectivity



### Inputs and Outputs

- input impedance: >10k Ohms
- output impedance: 50 Ohms
- maximum level: +20dBu
- bu type: Electronically balanced

### Audio Performance

- freq response:  $\pm 0.1$ dB (20 to 20kHz)
- dynamic range: 115dB typ (unweighted)
- CMMR: > 100dB (50 to 10kHz)
- crosstalk: < -100dB
- distortion: 0.002% (1kHz @+4dBu)

### Digital Audio Performance

- processor: 40-bit floating point
- sampling rate: 96kHz
- analog converters: High Performance 24-bit
- propagation delay: 1.5ms

### Front Panel Controls

- level meters: 4 LEDs

### Connectors

- audio input: 3-pin XLR
- RS-232: Female DB-9
- ethernet: Standard CAT-5 (optional)
- power: Molex 0.156" Connector



### General

- power:  $\pm 12$ VDC
- dimensions: 150 x 81 x 33 mm
- weight: 0.46 kg

### Audio Control Parameters

- gain: -40 to +15dB in 0.25dB steps
- polarity:  $\pm$
- delay: Up to 100ms per I/O

### Equalizers (8 Per I/O)

- type: Parametric, Hi-shelf, Lo-shelf
- gain: -30 to +15dB in 0.25dB steps
- bandwidth: 0.02-2.50 octaves (Q=0.5-72)

### Crossover Filters (2 Individuals Per Output)

- filter types: Butterworth, Bessel, Linkwitz Riley
- slopes: 6 to 48dB/oct for IIR

### Limiters

- threshold: -20 to +20dBu
- attack: 0.3 to 100ms
- release: 2 to 32x the attack time

### System Parameters

- no. of programs:
- configuration: 2- or 3-way

## X-PANEL full-access wall control panel

When it comes to remote control hardware, it is necessary to provide an easy yet powerful interface for the personnel in charge. XPanel is created with this purpose in mind. The menu names and control parameters are totally programmable via our software provided along with the device. As a matter of fact, the XPanel is so flexible that it not only allows the user to define what parameters to be controlled, but the min/max of the parameters' range.

Working seamlessly with the X-Series processors, it allows the processors to create a control network not only with computers, but also with the XPanels. Multiple XPanels, processors and computers can exist in the same network. It yields total control to the user with tremendous power and flexibility beyond imagination.

### features

- Fully Programmable via Software
- Works with X Series Processor
- Powerful yet easy to use
- Control Network Capability
- Up to 32 XPanels in Network
- Powered by Processor or Wall-plug



## X-CONSOLE control software for x-series

XConsole is Xilica's new software designed from ground up. Based on C# and XML technologies, XConsole is thus more powerful than ever. The XML files can be viewed directly as desired. It not only allows the user to control and monitor all processors in the network, it also provides an intuitive way for the construction of a custom configuration user interface. The user can layout buttons, faders and meters anywhere onscreen according to his preference.

Parameters Linking is another indispensable feature. For example, a single fader can be created to control multiple channels of EQ levels at the same time. Experience the next generation professional audio software today.

A free copy of XConsole can be downloaded at [www.xilica.com](http://www.xilica.com).

### features

- Next Generation Software
- Works with X-Series Processor
- Powerful yet Flexible
- Configurable User Interface
- Generic XML Based data structure
- Runs under Windows XP



## XP-4080 4x4 high-end loudspeaker management system

The XP Series digital loudspeaker management system is the little brother of the XD series. With its loaded functions, like 8 PEQ and 1 31-Band GEQ per channel, Input+Output Delays, Input+Output Crossovers, Input Compressors, Output Limiters, Level adjustable Mixers, it is suitable for a wide variety of applications.

Microphone Input is also available (M Suffix, Euro-type audio connectors). With the powerful performance at its price point, the XP makes itself indispensable among Sound Engineers and Contractors. Designed to fit in small/medium size venues, the XP is perfect for high sound quality expectation with a limited budget.

### features

- 2x4, 3x6 and 4x8 In-Out Configurations
- Top Sound Quality in its Class
- Fully loaded with functions
- Microphone Inputs (M Suffix)
- Simple and Efficient Controls



### Inputs and Outputs

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

### Audio Performance

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

### Digital Audio Performance

- Processor: 40-bit floating point
- Sampling Rate: 48kHz
- Analog Converters: Super Performance 24-bit
- Propagation Delay: 1.8ms

### Front Panel Controls

- Display: 2 x 32 Character Backlit LCD
- Level Meters: 5 segment LEDs
- Buttons: 12 Mute Controls
- 12 Gain/Menu Controls
- 6 Menu Controls
- Dial Encoder: Embedded Thumb Wheel

### Connectors

- Analog: 3-pin XLR
- RS-232: Female DB-9
- Ethernet (option): Standard CAT-5
- Power: Standard IEC Socket

### General

- Power: 90-265 VAC (50 / 60Hz)
- Dimensions: 19"x1.75"x9" (483x44x229mm)
- Weight: 10 lbs / 4.6 kg

### Audio Control Parameters

- Gain: -40 to +15dB in 0.25dB steps
- Polarity: +/-
- Delay: Up to 100ms per I/O

### Equalizers (8 per I/O)

- Type: Parametric, Hi-shelf, Lo-shelf, Phase
- Gain: -30 to +15dB in 0.25dB steps
- Bandwidth: 0.02 to 2.50 octaves (Q=0.5 to 72)

### Crossover Filters (2 Individuals per Output)

- Filter Types: Butterworth, Bessel, Linkwitz Riley,
- Slopes: 6 to 48dB/oct for IIR
- 50-400 taps for FIR

### Limiters

- Threshold: -20 to +20dBu
- Attack: 0.3 to 100ms
- Release: 2 to 32X the attack time

### System Parameters

- No. of Programs: 30
- Configuration: Generic, 2, 3, 4-Way
- Delay Units: ms, ft, m
- Frequency Modes: 36 steps/oct, 1Hz resolution
- Security Locks: Any individual menu
- Channel Names: 6 characters

## XP-2040 2x4 version



## XP-3060 3x6 version



## XP-8080 8x8 version



## XP-4080 4x4 high-end loudspeaker management system



The Neutrino Processors are developed to meet the growing market requirement for quality and user-friendly configurable DSP systems.

The XDesigner Software transforms the methods of creation and modification of a specific audio system. Standard modules includes Gain, Delay, PEQ, GEQ, Compressor, Limiter, Mixer, Noise Gate, Signal Generator, Ducker, Scheduler, Logic, etc. DSP modules are continuously under development and will be added to the list.

The sound engineer decides what DSP modules to be used and how

the signals to be routed. XDesigner ensures the workability of the final netlist. The compiled netlist will then be transferred to the Neutrino processor, which acts exactly the same as the functional DSP blocks in designed netlist.

Different presets can be recalled/stored for a particular netlist. This provides limitless possibilities of Neutrino to fit in any venues, large or small. XPanel can be used for remote control applications. To complete this professional product, a super low latency Ethernet Audio Network is employed to eliminate any unwanted delays.

With Ethernet, USB or RS232 connectivity, Neutrino is able to control to XDesigner or any third party device via wired or wireless network.

### features

- 8x8 In-Out Configurations
- Top Sound Quality for Installation Applications
- Drag and Drop DSP Modules
- Create Customized Systems on the fly

- Limitless Combinations of Audio Functions
- Ongoing Module Development
- Flexible Analog/Digital I/O Requirements
- Super Low Latency Digital Audio Network
- Works with XDesigner
- Configurable Live Sound and Installation Applications



## XDESIGNER software for Neutrino series

XDesigner is our newly created software designed for the Neutrino Series. Based on C# and XML technologies similar to XConsole, it provides a flexible data structure and efficient architecture.

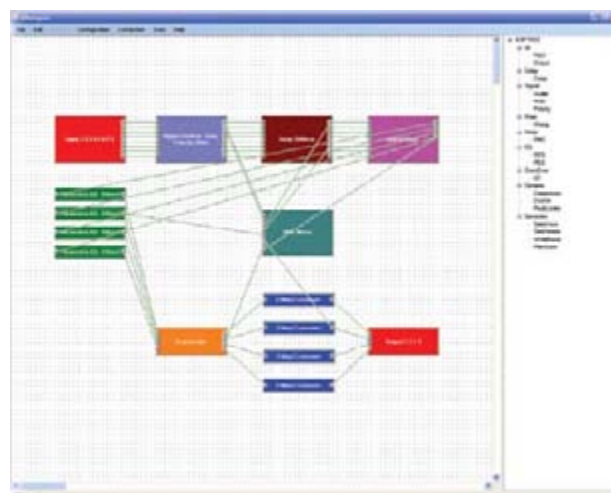
The name "XDesigner" is very appropriate as it allows the sound engineers to design their own audio system, all under one software platform. DSP modules are located in the computer's and Neutrino's database for the engineer to insert into the desired integrated functions. Interactions between the DSP modules lie totally on the designer's hands. Intuitive "Drag and drop" user interface elevates the usability and feel of XDesigner.

The XML files can be viewed directly as desired. It not only allows the user to control and monitor

all processors in the network, it also provides an intuitive way for the construction of a custom configuration user interface. The user can layout buttons, faders and meters anywhere on screen according to his preference. Experience the next generation professional audio software targeted for the configurable Live Sound and Installation applications today.

### features

- Works with Neutrino Series Processors
- Completely Configurable
- Drag and Drop User Interface
- DSP Blocks Schematic
- Schematic Netlist Generation
- Customizable User Interface
- Generic XML Based data structure
- Configurable Live Sound and Installation



## DLP-4080A digital loudspeaker controller

The DLP-4080A is a complete 4-input–8-output digital loudspeaker management system designed for the touring or fixed sound installation markets.

The absolute latest in available technology is utilized with 40-bit floating point processors and high performance 24-bit Analog Converters. The high-bit DSP prevents noise and distortion induced by truncation errors of the commonly used 24-bit fixed-point devices.

A complete set of parameters include I/O levels, delay, polarity, 6 bands of parametric EQ per channel, multiple crossover selections and full function limiters.

Precise frequency control is achieved with its 1 Hz resolution. Inputs and outputs can be

routed in multiple configuration to meet any requirements.

The DLP-4080A can be controlled or configured in real time on the front panel or with the intuitive PC GUI accessed via the RS-232 interface.

Software upgrade for CPU and DSP via PC keeps the device current with newly developed algorithms and functions once available. Multiple setup storage and system security complete this professional package.

### features

- 4 Inputs and 8 Outputs with flexible routing
- 40-bit floating point DSP minimizes errors
- 96 kHz Frequency Resolution
- High Performance 24-bit A/D Converters
- 1 Hz Frequency Resolution



### Inputs and Outputs

- input impedance: >10k Ohms
- output impedance: 50 Ohms
- maximum level: +20dBu
- bu type: Electronically balanced

### Audio Performance

- freq response:  $\pm 0.1$  dB (20 to 20kHz)
- dynamic range: 115dB typ (unweighted)
- CMMR: > 40dB (20 to 10kHz)
- crosstalk: < -100dB
- distortion: 0.002% (1kHz @ +4dBu)

### Digital Audio Performance

- processor: 32-bit (40-bit ext) floating
- sampling rate: 96kHz
- analog converters: Super Performance 24-bit
- propagation delay: 3ms

### Front Panel Controls

- display: 4 x 26 Character Backlit LCD
- level meters: 5 segment LEDs
- buttons: 12 Mute Controls/12 Gain Menu Controls/6 Menu Controls
- dial encoder: Embedded Thumb Wheel

### Connectors

- analog/digital audio: 3-pin XLR
- RS-232: Female DB-9
- ethernet: Standard CAT-5
- power: Standard IEC Socket

### General

- power: 90-265 VAC (50 / 60Hz)
- dimensions: 483 x 44 x 229 mm
- weight: 4.6 kg

### Audio Control Parameters

- gain: -40 to +15dB in 0.25dB steps
- polarity:  $\pm$
- delay: Up to 450ms per I/O

### Equalizers (8 Per I/O)

- type: Parametric, Hi-shelf, Lo-shelf
- gain: -30 to +15dB in 0.25dB steps
- bandwidth: 0.02-2.50 octaves (Q=0.5-72)

### Crossover Filters (2 Individuals Per Output)

- filter types: Butterworth, Bessel, Linkwitz Riley, FIR
- slopes: 6 to 48dB/oct
- limiters: 50-400 taps for FIR
- threshold: -20 to +20dBu
- attack: 0.3 to 100ms
- release: 2 to 32x the attack time

### System Parameters

- no. of programs: 30
- configuration: Generic/2-/3-/4-Way
- delay units: ms, ft, m
- frequency modes: 36 steps/oct, 1Hz resolution
- security locks: Any individual menu
- channel names: 6 characters



## DCP-3060 digital loudspeaker controller

The DCP-3060 is a cost efficient 3-input–6-output digital loudspeaker management system designed for the touring or fixed sound installation markets. The absolute latest in available technology is utilized with 32-bit (40-bit extended) floating point processors and high performance 24-bit Analog Converters. The high-bit DSP prevents noise and distortion induced by truncation errors of the commonly used 24-bit fixed-point devices.

A complete set of parameters include I/O levels, delay, polarity, 6 bands of parametric EQ per channel, multiple crossover selections and full function limiters. Precise frequency control is achieved with its 1 Hz resolution.

Inputs and outputs can be routed in multiple configuration to meet any requirements. The DCP-3060 can be controlled or configured in real time on the front panel or with the

intuitive PC GUI accessed via the RS-232 interface. Software upgrade for CPU and DSP via PC keeps the device current with newly developed algorithms and functions once available.

Multiple setup storage and system security complete this professional package.

### features

- 3 Inputs and 6 Outputs with flexible routing
- 32-bit (40-bit extended) floating point DSP minimizes errors
- 48kHz Sampling Rate
- High Performance 24-bit A/D Converters
- 1 Hz Frequency Resolution
- 6 Parametric Equalizers for each Input and Output
- Multiple Crossover types with Full Function Limiters
- Precise Level, Polarity and Delay
- CPU and DSP upgrade via PC



### Inputs and Outputs

- input impedance: >10k Ohms
- output impedance: 50 Ohms
- maximum level: +20dBu
- bu type: Electronically balanced

### Audio Performance

- freq response:  $\pm 0.1$  dB (20 to 20kHz)
- dynamic range: 115dB typ (unweighted)
- CMMR: > 40dB (50 to 10kHz)
- crosstalk: < -100dB
- distortion: 0.002% (1kHz @ +4dBu)

### Digital Audio Performance

- processor: 32-bit (40-bit ext) floating
- sampling rate: 48kHz
- analog converters: High Performance 24-bit
- propagation delay: 3ms

### Front Panel Controls

- display: 2 x 16 Character Backlit LCD
- level meters: 5 segment LED
- buttons: 9 Mute Controls/9 Gain Menu Controls/6 Menu Controls
- dial encoder: Embedded Thumb Wheel

### Connectors

- analog/digital audio: 3-pin XLR
- RS-232: Female DB-9
- ethernet: Standard CAT-5
- power: Standard IEC Socket

### General

- power: 115/230 VAC (50 / 60Hz)
- dimensions: 483 x 44 x 203 mm
- weight: 4.6 kg

### Audio Control Parameters

- gain: -40 to +15dB in 0.25dB steps
- polarity:  $\pm$
- delay: Up to 50ms per I/O

### Equalizers (6 per I/O)

- type: Parametric, Hi-shelf, Lo-shelf
- gain: -30 to +15dB in 0.25dB steps
- bandwidth: 0.02-2.50 octaves (Q=0.5-72)

### Crossover Filters (2 Individuals Per Output)

- filter types: Butterworth, Bessel, Linkwitz Riley
- slopes: 6 to 48dB/oct
- limiters:
- threshold: -20 to +20dBu
- attack: 0.3 to 100ms
- release: 2 to 32x the attack time

### System Parameters

- no. of programs: 30
- configuration: Generic/2-/3-/4-Way
- delay units: ms, ft, m
- frequency modes: 36 steps/oct, 1Hz resolution
- security locks: Any individual menu
- channel names: 6 characters



## DSPX-8080 universal digital matrix controller

The DSPX-8080 is a complete 8 input - 8 output Digital Audio Matrix Processor system designed for fixed sound installation markets.

The absolute latest in available technology is utilized with 40 bit floating point processors and high performance 24-bit Analog Converters. The high-bit DSP prevents noise and distortion induced by truncation errors of the commonly used 24-bit fixed-point devices. The DSPX-8080 was designed to provide the best audio quality in the installation industry.

A complete set of parameters include I/O levels, delay, polarity, 6 bands of parametric EQ per channel, multiple crossover selections and full function limiters. Precise frequency control is achieved with its 1 Hz resolution.

The inputs can be routed and mixed to any output to meet any requirements. The DSPX-8080 can be controlled or configured in real time on the front panel or with the intuitive PC GUI accessed via the RS-232 interface. Multiple setup storage and system security are included.

### features

- 8 Inputs and 8 Outputs with flexible routing
- 40-bit floating point DSP
- High Performance 24-bit A/D Converters
- Input Source Mixing capability
- 1Hz Frequency Resolution



### Inputs and Outputs

- input impedance: >10k Ohms
- output impedance: 50 Ohms
- maximum level: +20dBu
- bu type: Electronically balanced

### Audio Performance

- freq response:  $\pm 0.1$ dB (20 to 20kHz)
- dynamic range: 115dB typ (unweighted)
- CMMR: > 60dB (50 to 10kHz)
- crosstalk: < -100dB
- distortion: 0.002% (1kHz @ +4dBu)

### Digital Audio Performance

- processor: 40-bit floating point
- sampling rate: 96kHz
- analog converters: High Performance 24-bit
- propagation delay: 1.5 ms

### Front Panel Controls

- display: 4 x 32 character backlit LCD
- level meters: 5 Segment LED
- buttons: 12 Mute Controls/12 Gain/Menu Controls/6 Menu Controls
- level pot: Embedded slot type

### Connectors

- audio input: 3-pin XLR
- RS-232: Female DB-9
- power: Standard IEC Socket

### General

- power: 115-230 VAC (50 / 60Hz)
- dimensions: 483 x 44 x 229 mm
- weight: 4.6 kg

### Audio Control Parameters

- gain: -40 to +15dB in 0.25dB steps
- polarity:  $\pm$
- delay: Up to 450ms per I/O

### Equalizers (8 Per I/O)

- type: Parametric, Hi-shelf, Lo-shelf
- gain: -30 to +15dB in 0.25dB steps
- bandwidth: 0.02-2.50 octaves (Q=0.5-72)
- mixer: Off/-40-0dB in 2.5dB steps

### Crossover Filters (2 Individuals Per Output)

- filter types: Butterworth, Bessel, Linkwitz Riley
- slopes: 6 to 48dB/octave
- limiters:
- threshold: -20 to +20dBu
- attack: 0.3 to 100ms
- release: 2 to 32x the attack time

### System Parameters

- no. of programs: 30
- configuration: 2- or 3-way



## X-LINK PC control software for Xilica products

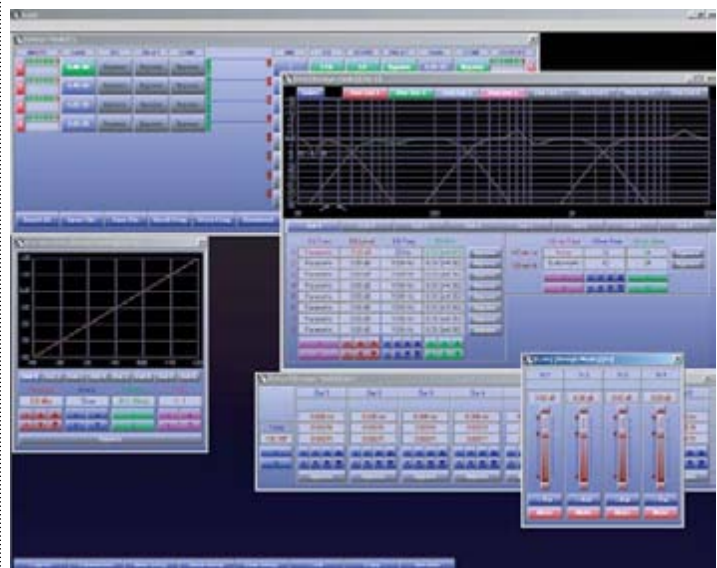
In its V5 generation, XLink has evolved from a basic PC software to a sophisticated Control and Monitor panel for all Xilica products. With its Setup and Live modes, XLink allows the user to create/edit/modify/recall/store configurations in an easy and time saving fashion.

The frequency response is nicely revealed, with the mouse/keyboard controls readily available. With its Block-based and Window popping features, the sound engineer can specifically select any parameter or function to be controlled or monitored.

With Ethernet and RS232 connectivity, XLink is able to control the devices via wired or wireless network.

### features

- Intuitive and User Friendly
- Bidirectional Communication
- Real-Time Control and Monitoring
- Large Graphical Screen For Accuracy
- 100 Groups of Separate Links
- Precise Level Monitoring
- Controls Classic Series Processors
- Works under Windows XP



**XILICA** features comparison

	Neutrino	XD	XP	XM	DLP	DCP
<b>Variations</b>	A88	4080 8080	2040 3060 4080 8080	2040	4080	3060
<b>DSP Algorithms</b>						
Max. Delay per I/O (ms)*	Programmable	650	650	100	450	50
# of PEQs per Channel	Programmable	8	8	8	6	6
FIR Linear Phase Crossover		✓				
Phase Correction	Programmable	✓	✓			
Graphic EQ	Programmable	✓	✓			
Input Mixing Capability	Programmable	Level	Level	Level	On / Off	On / Off
Input Compressor	Programmable	✓	✓			
Output Compressor	Programmable	✓	✓			
Input Crossover	Programmable	✓	✓			
<b>Hardware</b>						
Sampling Rate (kHz)	96	96	96	96	96	48
Propagation Delay (ms)	1.5	1.5	1.5	1.5	1.8	2.1
RS232 (Female DB-9)	Built-in	Built-in	Built-in	Option	Built-in	Built-in
USB (Type B)	Built-in	Built-in	Built-in	Option		
Ethernet (CAT-5)	Built-in	Built-in	Built-in	Option	Option	Option
Digital Audio I/O (Female DB-25)	Option	Built-in		Option		
Audio Connectors	XLR / Euro	XLR / Euro	XLR / Euro	XLR + Euro	XLR	XLR
LCD Display	2-Line	4-Line	2-Line		4-Line	2-Line
Power Supply (Standard IEC)	Switching	Switching	Switching		Linear	Linear
Power Supply Voltage	90-264 VAC	90-264 VAC	90-264 VAC	+/- 12VDC	115 / 230 VAC	115 / 230 VAC
Wall Panel Control Capable	✓	✓	✓	✓		
<b>Common</b>						
DSP Processor	40-Bit Floating Point					
Input Impedance (Ohms)	10k					
Output Impedance (Ohms)	25					
Maximum Level (dBu)	20					
Frequency Response (dB)	+/- 0.1 (20 to 20kHz @ 48kHz, 20 to 30kHz @ 96kHz)					
Dynamic Range (dB)	115 Typical (Unweighted)					
CMRR (dB)	> 100 (50 to 10kHz)					
Crosstalk (dB)	< -100					
Distortion (%)	0.002% (1kHz @+4dBu)					
Dimension	19" x 175" x 9" (483 x 44 x 229 mm)					
Weight	10 lbs (4.6kg) (Except XM)					

note: specifications subject to change without notice

