

## Case Study (Canada): Connestoga College, Kitchener

### Ashen White Selects Xilica XP Series DSP for College Student Centre Sound System Design

Ashen White, Toronto has an audio/video/lighting production rentals division as well as an integration design and sales division.

The integration division is headed up by Warren Potter and Warren recently completed a new sound system design and installation at Connestoga College in Kitchener Ontario.

Warren chose to use a Xilica Audio Design XP-4080 digital processor to process and manage the speaker systems in the college's student centre project.



The XP-4080 DSP uses state of the art 96kHz sampling, 40 Bit floating point DSP architecture and high performance 24 Bit converters to provide best in class audio performance.



**Warren Potter from Ashen White** – *“The Xilica XP-4080 DSP was an easy choice for this project for several reasons. The XP-4080 uses 96kHz sampling and a 40 Bit floating point DSP architecture to provide superb audio performance but with a friendly price tag. The performance/value ratio allowed us to spend more in other areas of the system to increase its overall system quality without sacrificing audio performance at the main processor. And the XP-4080 provided all the DSP features we needed. It not only provides typical DSP and stereo three-way processing for the main room system, and stereo processing for the lounge, it also provides matrix mixing functions from multiple sources to suit all venue events”.*

The XP-4080's four (4) inputs, eight (8) outputs and DSP is configured using the XConsole software GUI and provides Ethernet, USB, and RS232 connectivity. The XP-4080's matrix mixer routes any input to any or all outputs. Input 31 band GEQ, 8 band PEQ, delay, dual crossover filters and compressors plus output 8 band PEQ, delay, dual crossover filters, and limiters provide the DSP tools to fine tune and maximize the sound systems audio performance.



**Describing the sound system design Warren stated that** - *“The venue serves multiple purposes depending on the time of day as well as event needs. By day it typically serves as an open seating area for students to enjoy lunch or spend time with classmates where they can watch TV or listen to a live solo performer. Most of those needs are handled by an automated mixing system that feeds into one pair of the XP-4080 inputs. By night the space becomes a night club for students that can include*

DJ's, bands and other multiple input events. These events are handled by a 24 channel Soundcraft GB2 console *and feed into the second set of inputs on the Xilica XP-4080 DSP.*

The main room audio uses four bi-amplified EAW MK2300 speaker cabinets with four EAW SM180 subwoofers. The lounge uses two Turbosound TCS-101C loudspeakers. All amplification is handled by Lab Gruppen C Series amplifiers *with the Xilica XP-4080 providing crossovers and DSP.* Two LG C48:4 amps handle the subwoofers and low-frequency component of the MK 2300 loudspeakers. One LG C28:4 amp provides for the high-frequency section of the main room MK2300 loudspeakers and the Turbosound loudspeakers in the lounge”.

**Warren Potter from Ashen White** – “The XP-4080 installed very quickly, not just physically but digitally as well. It took very little time create the necessary program as well as tune both the main and lounge systems thanks to the easy-to-use and well thought out XConsole software GUI provided by Xilica. The customer loves the wide capabilities of the system as well as the sound quality, which was easily provided with high end components such as Lab Gruppen and an XP-4080 that has no issue maintaining the quality from the Soundcraft console or the automated mixing system”.



*Xilica Audio Design would like to thank Warren Potter, Ashen White, and Connestoga College for their trust and support of Xilica digital processor solutions.*

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