EasyUSB™ AudioBRIDGE™

Vaddio™ EasyUSB Solution for Existing Audio Systems

The EasyUSB AudioBRIDGE is an elegant solution to enable existing professional audio equipment to go digital by converting the analog audio signals to USB 2.0 for use with the Unified Communication soft clients like Microsoft Lync, Cisco Jabber, Google+ WebEx, GoToMeeting and more!

Professional audio equipment can connect to the AudioBRIDGE with balanced line level inputs and outputs on a 3-pin Euro terminal block or unbalanced consumer level inputs and outputs on RCA connectors. The AudioBRIDGE converts the analog audio to a USB microphone and loudspeaker channel for connection to the PC application.

The AudioBRIDGE has been optimized for use with UC clients including Microsoft Lync. A unique feature of the AudioBRIDGE is user configuration of USB terminal type. The AudioBRIDGE can be configured as a USB speakerphone (Type 403) or a USB echo cancelling speakerphone (Type 405). Use Type 405 when connecting to professional audio conferencing mixers with echo cancellation. Use Type 403 when connecting to audio equipment that does not have internal echo cancellation. This feature improves performance with Microsoft Lync and other soft clients.

The AudioBRIDGE includes independent USB and analog gain stages. Gain structures can be configured between the pro audio equipment without being impacted by PC volume controls. Additionally, the AudioBRIDGE even includes a serial control (RS-232) port for use with AMX/Crestron control systems.

While the EasyUSB AudioBRIDGE is a simple idea, execution of the idea is one of the most important aspects of selecting an analog audio to USB 2.0 converter. This solution offers many desirable features specifically included to perform flawlessly for mission critical UC applications using new or existing audio systems.

WHAT'S INCLUDED

One (1) EasyUSB AudioBRIDGE Analog to USB 2.0 Converter
One (1) 12 VDC, 1.0 Amp Switching Power Supply
One (1) AC Clip Set (North America or International)
One (1) 6' (1.83m) USB 2.0 Cable, Type-A to Type-B (black)
One (1) Control Adapter (DE-9F to RJ-45F)
Four (4) Rubber feet for the bottom of enclosure (if not rack mounted)
One (1) Installation and User Guide

KEY FEATURES

Balanced Line Input:
- Mono line level (+4dBu) input on 3-Pin Euro terminal block mapped to the USB record channel

Unbalanced Line Input:
- Mono consumer level input (-10dBV) on RCA mapped to the USB record channel.
  Note: Both line inputs, balanced and unbalanced are summed together and sent out USB.

Balanced Line Output:
- Mono line level output (+4dBu) on 3-pin Euro terminal mapped to the USB playback channel.

Unbalanced Line Output:
- Mono consumer level output (-10dBV) on RCA mapped to the USB playback channel.
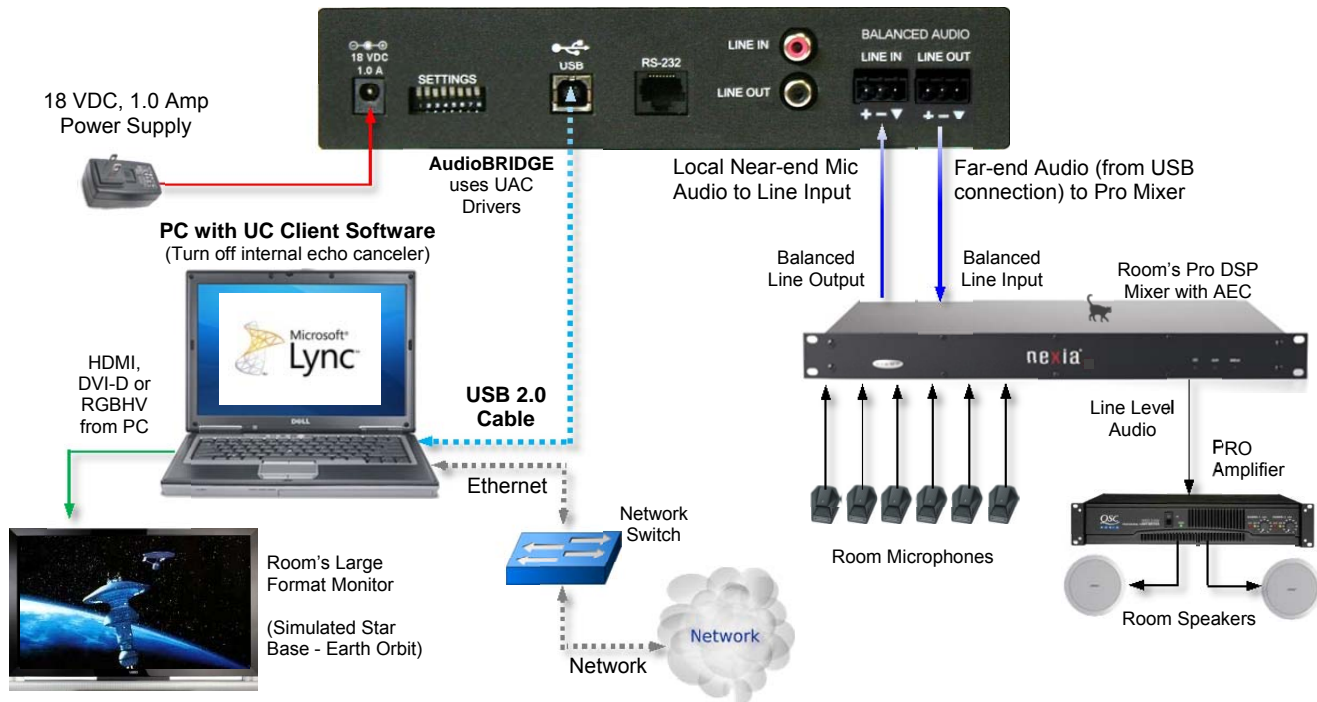
USB Audio:
- AudioBRIDGE uses standard UAC (Universal Audio Class) drivers, so there are no annoying drivers to load.
- It is a UAC compliant speakerphone with configurable terminal type for use with PC-based soft clients.

EasyUSB AudioBRIDGE Rear Panel Connectors (left to right):

Power Jack: 5.5mm OD x 2.5mm ID coaxial, 8-dip switches for audio processing, USB Type-B connector, RS-232 port on RJ-45, Unbalanced Line In/Out on RCA-F and Balanced audio on two 3-pin Euro terminal block connectors.

SYSTEM DIAGRAM
Configuration Example

EasyUSB AudioBRIDGE - Rear Panel Connections

18 VDC, 1.0 Amp Power Supply

AudioBRIDGE uses UAC Drivers

Local Near-end Mic Audio to Line Input

Far-end Audio (from USB connection) to Pro Mixer

Balanced Line Output

Balanced Line Input

Room's Pro DSP Mixer with AEC

PC with UC Client Software
(Turn off internal echo canceler)

HDMI, DVI-D or RGBHV from PC

USB 2.0 Cable

Ethernet

Line Level Audio

PRO Amplifier

Room's Large Format Monitor

(Simulated Star Base - Earth Orbit)

Network Switch

Room Microphones

Room Speakers

Network

Network

GENERAL SPECIFICATIONS*

Part Numbers	North America: 999-8536-000 International: 999-8536-001
Audio Inputs	Mono Balanced Line Level (+4dBu) on 3-pin Euro terminal block Mono Unbalanced Consumer level (-10dBV) on RCA connector
Audio Outputs	Mono Balanced Line Level (+4dBu) on 3-pin Euro terminal block Mono Unbalanced Consumer level (-10dBV) on RCA connector
User Controls	USB HID Controls for Volume, RS-232 Serial Commands, Rear DIP Switches for audio processing
Audio Specifications	Frequency Response: 20 HZ to 20KHZ, Dynamic Range: >90dB, THD + Noise: <.02%
USB Specifications	USB 2.0, UAC Compliant (Universal Audio Class drivers), 48kHZ, 16 bit resolution
Power Consumption	<18 Watts
Dimensions (H x W x D)	1.72" (43.7mm) H x 8.375" (212.73mm) W x 6.0" (152.4mm) D
Weight	1.4015643 lbs. (0.63573887 kg) Approximately
Included Accessories	One (1) 18VDC/1.0 Amp Power Supply and AC Clip Set One (1) 6' (1.83m) USB 2.0 Type-A Male to Type-B Male Cable
Optional Accessories	998-6000-004: ½-Rack Mounting Kit (Includes one long ear and one short ear) 998-6000-005: Under Table Mounting Bracket for ½-Rack Sized Device 440-1005-020: 65.6' (20m) Active USB 2.0 Extension Cable