soundweb™
LONDON

BLU-103 networked signal processor

BSS by HARMAN®

Overview

The Soundweb London BLU-103 offers a fixed configuration of 8 analog inputs and 8 analog outputs, a Voice over IP (VoIP) interface, congifurable signal processing, AEC processing, and a high bandwidth, fault tolerant digital audio bus.

The VoIP port enables the BLU-103 to interface with two VoIP (SIP v2.0 or later) lines.

The BLU-103 contains dedicated AEC processing for up to 8 independent AEC algorithms. The AEC algorithm can be applied to signals coming from the local analog inputs or from the digital audio bus. 8 individual AEC references (one per algorithm) allow the user to provide a solution for multiple conferencing spaces using a single device.

Automatic Gain Control (AGC) and Noise Cancellation (NC) are also provided per AEC algorithm. AGC ensures that microphone levels remain at an optimum level, and NC removes steady state noise (such as from a projector fan or air conditioning device) from the signal path.

This processor features a low latency, fault tolerant digital audio bus of 48 channels which uses standard Category 5e cabling giving a distance of 100m between compatible devices. Fiber media converters can be used to increase the distance between devices to over 40km.

Key Features
- 8 analog inputs (with 48Vrms phantom power per channel)
- 8 analog outputs
- VoIP port
- Configurable signal processing
- 8 channels of AEC processing with auto gain control and noise cancellation
- Rich palette of processing and logic objects
- 48 channel, low latency, fault tolerant digital audio bus
- Clear front panel LED indication
- Bi-directional locate functionality
- 12 control inputs and 6 logic outputs for GPIO integration
- Soundweb London interface kit for third party control system integration (documentation)
- HiQnet device
- Configuration, control and monitoring from HiQnet London Architect

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Technical Specifications

Chasis	19" (single rack space)
Custom I/O (card based)	no
Analog Inputs	8
Digital Inputs	0
AEC Inputs	8
Analog Outputs	8
Digital Ouputs	0
VoIP Connection	1
Max Inputs/Outputs	fixed
Config	software
LCD Display	no
Logic Processing	yes
RS-232	yes
GPIO	yes
Signal Processing (MHz)	400
Cobranet	no
SWL Digital Audio Bus	48
AVB	no
Dante	no

BSS Audio incorporates high quality mechanical fans in some products. All mechanical fans have a limited life expectancy. We recommend annual inspection of fans for dust occlusion and excessive noise. Fan assemblies should be replaced after six to ten years of use. Environmental factors such as elevated temperature, dust, and smoke can adversely affect fan life. Systems exposed to these conditions should be inspected more frequently. Fan replacement can be performed either at the factory or by an experienced technician in the field. Please contact BSS Technical Support for more information on purchasing replacement parts or product service. BSS Audio has a policy of continued product improvement and accordingly reserves the right to change features and specifications without prior notice.

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