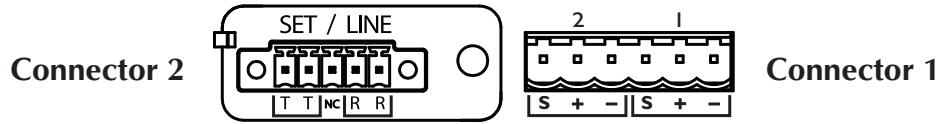


# Soundweb™ London Telephone Hybrid Cards



**OVERVIEW:**

The Soundweb London Telephone Hybrid Cards are designed to populate any of the four card slots on Soundweb London BLU-800, BLU-320, BLU-160 and BLU-120 devices. These cards enable Soundweb London devices to interface with a standard POTS (aka PSTN or Analog PBX) telephone network.

The Soundweb London Telephone Hybrid Cards also have two analog inputs which allow each Telephone Hybrid Card to receive two microphone or line level signals. These analog inputs offer Phantom Power, configurable per channel and software controlled analog gain in 6dB steps from 0dB to 48dB.

The Telephone Hybrid Cards each have two Combicon connectors which are used as follows:

**TELEPHONE HYBRID CARD:**

- **Connector 1**
  - o Balanced / Unbalanced Audio, Channel 1 - Mic/Line
  - o Balanced / Unbalanced Audio, Channel 2 - Mic/Line

<b>Balanced</b>	Hot: to + Cold: to - Shield: to S	<b>Unbalanced</b>	Hot: to + Link to Shield: to - Shield: to S
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- **Connector 2**
  - o Tip / Ring, Telephone Line Connection
  - o Tip / Ring, Parallel Set Connection

<b>Connector</b>	[Telephone]	[Mic/Line Combicon]
<b>Signal</b>		2 1
<b>Pin</b>	T T   N/C   R R	[S + -] [S + -]

**TELECOM AND SAFETY INFORMATION:**

**\*\*WARNING\*\***

Connection to telephone system involves high voltages. This device must be installed by qualified personnel. Connections to the telephone network must be made with #26 AWG solid copper wire to meet UL 60950.

**\*\*VARNING\*\***

Apparatet skal tilkoples jordet stikkontakt

NOTE: the Telecommunications Act is administered by the ACTA in the USA. The ACA is the authority in Australia. Industry Canada is the authority in Canada.

**TELECOM**

USA/Canada: P68 (TIA-968-B) /CS-03  
 European: CE  
 Australia: ACA AS/ACIF S002: 2005

**SAFETY**

IEC / UL 60950  
 IEC / UL 60065 + AMD1

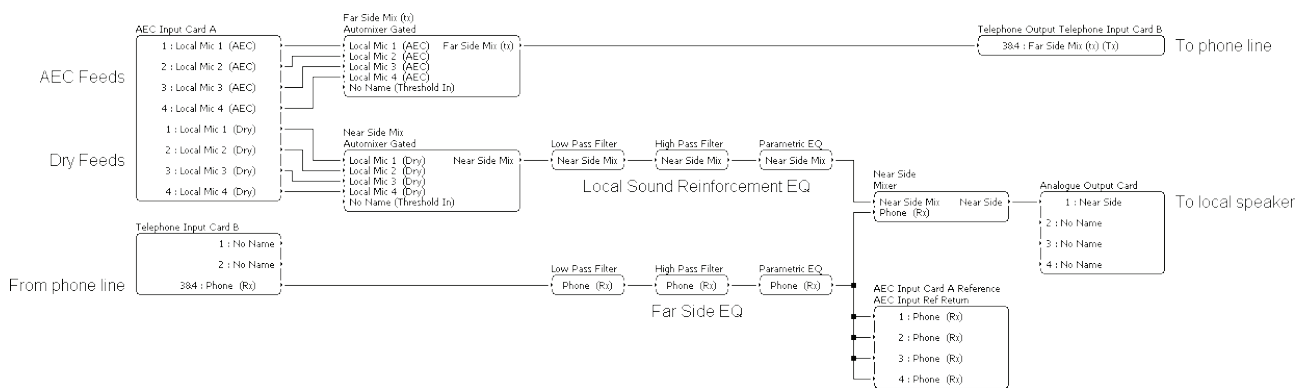


# Soundweb™ London Telephone Hybrid Cards

## TECHNICAL SPECIFICATIONS:

<b>Analog Inputs:</b>	2 electronically balanced on Phoenix/Combicon removable screw connectors
<b>Mic/Line Inputs:</b>	Nominal gain 0dB, electronically switchable up to +48dB, in +6dB steps
<b>Input Impedance:</b>	3.5kΩ
<b>Maximum Input Level:</b>	+20dBu with 0dB input gain, +8dBu with 12dB gain, balanced, 150Ω
<b>CMRR:</b>	>75dB at 100Hz, >66db at 1kHz
<b>Input Noise (E.I.N.):</b>	<-128dBu typical with 150Ω source, 20kHz, +48dB gain
<b>Phantom Power:</b>	48V nominal, selectable per input
<b>A/D Latency:</b>	12/Fs [0.25ms@48k]
<b>THD+N:</b>	<0.005% typical (20Hz to 20kHz @ +10dBu), balanced, 150Ω
<b>Frequency Response:</b>	20Hz to 20kHz +/-0.2dB, balanced, 150Ω
<b>Dynamic Range:</b>	117dB, 20Hz to 20kHz, A-weighted: 114dB unweighted
<b>Telephone Interface:</b>	
<b>AC-REN:</b>	0.0B
<b>Dynamic Range:</b>	67dB
<b>Frequency Response:</b>	300 to 3.3kHz
<b>THD:</b>	<0.3%
<b>Transhybrid Loss:</b>	>48dB with LEC enabled
<b>LEC Tail Time:</b>	64ms
<b>TX Level:</b>	-10dBm RMS average
<b>RX Level:</b>	+3.2dBm RMS

## EXAMPLE SOUNDWEB LONDON TELECONFERENCING PROCESSING DESIGN:



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.