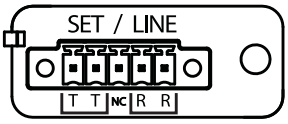
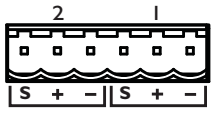
Soundweb™ London
Telephone Hybrid Cards

Connector 2





Connector 1

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

Balanced	Hot: to + Cold: to - Shield: to S	**Unbalanced**	Hot: to + Link to Shield: to - Shield: to S

- **Connector 2**
  - Tip / Ring, Telephone Line Connection
  - Tip / Ring, Parallel Set Connection

Connector	[Telephone]	[Mic/Line Combicon]	
Signal		2	1
Pin	I T T I N/C I R R I	[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

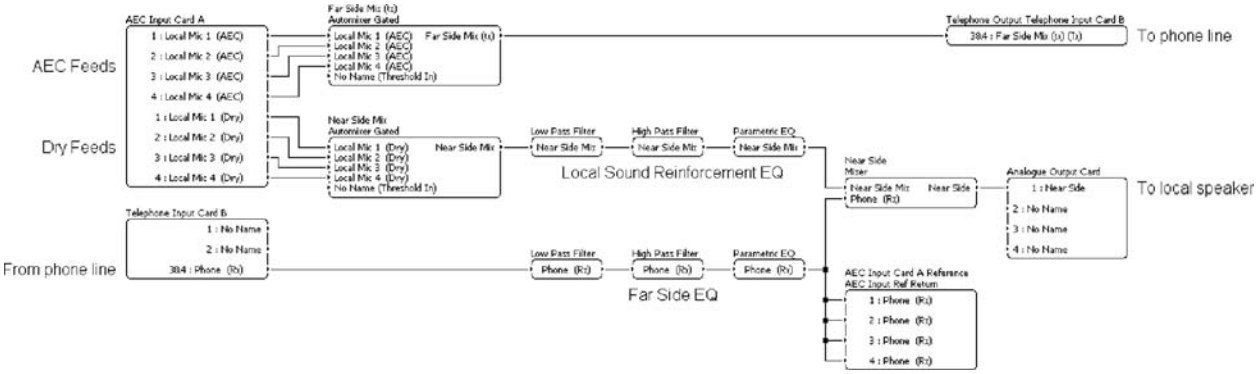
BSS AUDIO I 8760 S. Sandy Parkway I Sandy, UT 84070 U.S.A I Ph. +1 - 801-566-8800 I Fax +1 - 801-566-7662

Soundweb™ London Telephone Hybrid Cards

TECHNICAL SPECIFICATIONS:

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

18-0730

BSS AUDIO | 8760 S. Sandy Parkway | Sandy, UT 84070 U.S.A | - Ph. +1 801-566-8800 | Fax +1 - 801-566-7662