



Nexia TC is a digital signal processor with 8 wide-band AEC mic/line inputs, 2 standard mic/line inputs, 4 mic/line outputs, and a telephone interface. Intended for a variety of teleconferencing applications, Nexia TC uses Biamp's proprietary Sona™ AEC algorithm for more natural sound and full-duplex transmission of speech. Nexia TC includes a broad selection of audio components, routing options, and signal processing. The internal system design is completely user definable via PC software, and can be controlled via daVinci™ software screens, RS-232 control systems, and a variety of optional remote controls. Multi-unit Nexia systems can be created utilizing Ethernet and NexLink digital audio linking.

FEATURES

- 8 wide-band AEC balanced mic/line inputs
- 2 standard balanced mic/line inputs
- 4 balanced mic/line outputs
- telephone interface with line & set connections
- Ethernet port for software configuration/control
- serial port for third-party RS-232 remote control
- NexLink ports for multi-unit system designs
- Nexia software for Windows® XP Professional/Vista
- pre-configured I/O with definable processing
- **RoHS** compliance and **AES** grounding practices
- **CE** marked and **UL/C-UL** listed
- covered by Biamp Systems' five-year warranty
- Ability to select, view, and calibrate:
 - Mixers, Equalizers, Filters, Crossovers, Dynamics, Routers, Delays, Controls, Meters, Generators, Diagnostics
- Telephone Interface capabilities include:
 - initiation of outgoing calls
 - detection and answering of incoming calls
 - line echo cancellation
 - TouchTone™ decoding
 - caller ID reception
 - call progress detection
 - line intrusion detection
 - continuous line status and fault monitoring

ARCHITECTS & ENGINEERS SPECIFICATION

The teleconference DSP shall provide eight wide-band Sona™ AEC balanced mic/line inputs, two standard balanced mic/line inputs, and four balanced mic/line outputs on plug-in barrier-strip connectors. A telephone interface shall be provided on a pair of RJ11 jacks. Inputs and outputs shall be analog, with internal 24-bit A/D & D/A converters operating at a sample rate of 48kHz. All internal processing shall be digital (DSP). NexLink connections shall allow sharing of digital audio within multi-unit systems.

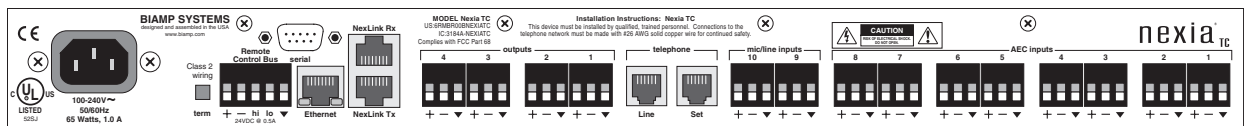
Software shall be provided for creating/connecting DSP system components within each hardware unit. Available system components shall include (but not be limited to) various forms of: mixers, equalizers, filters, crossovers, dynamics/gain controls, routers, delays, remote controls, meters, generators, and diagnostics. Ethernet communications shall be utilized for software control and configuration. After initial programming, processors may be controlled via dedicated software screens, third-party RS-232 control systems, and/or optional remote control devices. Software shall operate on a PC computer, with network card installed, running Windows® XP Professional/Vista. The teleconference DSP shall be CE marked, UL listed, and shall incorporate AES48-2005 Grounding & EMC practices. The teleconference DSP shall be compliant with EU Directive 2002/95/EC, the RoHS directive. Warranty shall be five years.

The teleconference DSP shall be Nexia® TC.

Nexia TC SPECIFICATIONS

Frequency Response (20Hz~20kHz @ +4dBu):	+0/-0.4dB	Telephone Interface:	ringer equivalency number	0.0B
THD+N (20Hz~20kHz @ +4dBu):			dynamic range	67dBu
line level	< 0.006%		frequency response	250Hz ~ 3.4kHz
mic level	< 0.05%		THD	< 0.3%
Equivalent Input Noise (20Hz~20kHz, 66dB gain, 150 ohm):	-125bBu		transhybrid balance	30dB
Dynamic Range (20Hz~20kHz, 0dB):	> 105dB	Tail Length:		up to 300ms
Maximum Gain (input channels):	66dB	Convergence:		up to 100dB/sec
Crosstalk (channel-to-channel @ 1kHz):		Phantom Power:		+48 VDC (7mA/input
line level	< -80dB	Sampling Rate:		48kHz
mic level	< -75dB	A/D - D/A Converters:		24-bit
Output Impedance (balanced):	200 ohms	Power Consumption (100~240VAC 50/60Hz):		65 watts
Input Impedance (mic/line balanced):	8k ohms	Dimensions:		
Input Gain Range (variable trim):	0dB ~ +66dB	height		1.75 inches (45mm)
Maximum Output (balanced):	+24dBu	width		19 inches (483mm)
Maximum Input (mic/line):	+24dBu	depth		11.15 inches (283mm)
Full Scale Output Level (six selections)	-31dBu ~ +24dBu	Weight:		8.6 lbs. (3.9kg)
		Compliance:		AES48-2005 Grounding & EMC practices EU Directive 2002/95/EC, RoHS directive CE marked UL listed

Nexia TC REAR PANEL DIAGRAM



Nexia TC BLOCK DIAGRAM

