



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 TrueSound™ 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
- remote control bus for dedicated control panels
- NexLink ports for multi-unit system designs
- Nexia software for Windows® 2000/XP Professional
- pre-configured I/O with definable processing
- **RoHS** compliance and **AES** grounding practices
- **CE** marked and **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 TrueSound™ 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.

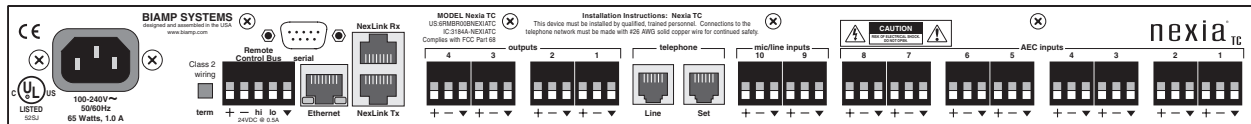
Software shall be provided for creating/connecting DSP system components within each hardware unit. Available system components shall include (but not be limited to) various forms of: mixers, equalizers, filters, crossovers, dynamics/gain controls, routers, delays, remote controls, meters, generators, 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® 2000/XP Professional. 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 5 years.

The teleconference DSP shall be Nexia® TC.

Nexia® TC SPECIFICATIONS

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

