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TESIRA[®] PRODUCT CATALOG

PRODUCT OFFERINGS
EFFECTIVE JANUARY 2018



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THE POWER OF THE PLATFORM



Our flagship platform, Tesira®, is the world's only integrated, networked audio and video processing and distribution platform. With completely open programming and no restrictive, predetermined signal flows, Tesira offers a powerful set of tools for creating innovative and efficient AV systems.

DIGITAL SIGNAL PROCESSORS

Tesira SERVER and SERVER-IO are configurable I/O DSP. Tesira SERVER is built for maximum flexibility, and also allows you to build out the rest of your system using expanders, making it a cost-effective choice while supporting future growth. Tesira SERVER-IO is highly configurable, allowing you to use AVB, CobraNet, and Dante on a single chassis in combination with analog I/O and VoIP/POTS telephony.

TesiraFORTÉ products are fixed I/O DSP, available in different models optimized for specific applications. All models are well-suited for many applications, from background music to court recording to soft codec integration. TesiraFORTÉ directly connects to soft codec technologies via its USB port, and supports distance conferencing over VoIP and analog telephony devices.

Rounding out Tesira DSPs are the TesiraLUX video encoders and decoders. TesiraLUX fully integrates digital audio and video on a single network, allowing for simplified lip sync management and end-to-end network transit latencies of 1.5 frames or less. TesiraLUX is a great choice for installations that require low latency, high-quality, synchronized media distribution.

EXPANDERS

Tesira's half-rack expanders are compatible with Tesira audio DSPs, and provide 4 channels powered by PoE+. The EX-MOD device offers remote placement of input and output capabilities. All Tesira expanders communicate with the Tesira AVB network for audio networking, configuration, and control.

AMPLIFIERS

Tesira amplifiers let you create a more complete audio system that can be designed and commissioned from one software platform. Adding amplifier blocks to your design files is a simple drag-and-drop. The innovative AMP-450P conferencing amplifier is PoE+ powered, allowing it to be placed wherever you need it — including air-handling spaces.

MICROPHONES

The TCM series of beamtracking™ ceiling microphones offers 360° room coverage with little to no setup or programming time required. Each microphone actively tracks and intelligently mixes conversations from around the table, while the built-in PoE+ amplifier in the TCM-1A includes an innovative burst power mode to handle peak signals.

SOFTWARE

Tesira's design software will help reduce design and installation time, and lower costs. Biamp Canvas® software allows efficient creation and use of customized control screens with Tesira digital audio systems.

DIGITAL SIGNAL PROCESSORS

CONFIGURABLE I/O



TESIRA SERVER

The Tesira SERVER is a configurable I/O DSP. It is factory configured with one DSP-2 card and can accept up to a total of eight DSP-2 cards. The SERVER is also factory configured with one AVB-1 card and has a second slot that can be outfitted with an additional AVB-1 card, a 32 x 32 channel SCM-1 CobraNet card, a 64 x 64 channel DAN-1 Dante™ card; or a standard I/O card for four channels of local I/O. The SERVER is the core of a Tesira digital audio system and can be used with Tesira expanders to form a highly scalable audio network. Two Tesira SERVERs can also be designed as a redundant pair, carrying identical processing and card configurations. The secondary SERVER stays 'live' with the primary, updating runtime parameters. If the primary SERVER should need maintenance, the secondary takes over with no loss of continuity or downtime.

- › Supports up to eight DSP-2 cards
- › Up to 420 x 420 channels of digital I/O over AVB
- › Optional 32 x 32 CobraNet audio networking
- › Optional 64 x 64 Dante audio networking
- › Configuration and control networking over Ethernet
- › Supports redundant processing pairs
- › Local GPIO connections
- › Front panel OLED display for device and system information
- › Processing algorithm: SpeechSense
- › Signal processing via intuitive software allows configuration and control for: signal routing and mixing, equalization, filtering, dynamics and delay, and much more
- › Extensive expansion devices (input, output, logic, etc.) available as part of the Tesira digital audio networking platform
- › Rack mountable (3RU)
- › CE marked, UL listed, RoHS compliant
- › Covered by Biamp Systems' five-year warranty





TESIRA SERVER-IO

The Tesira SERVER-IO is a configurable I/O DSP. It is factory configured with one DSP-2 card and is capable of handling up to two additional DSP-2 cards. The SERVER-IO has capacity for up to three total audio networking cards per chassis. The combinations of networking cards can include up to two AVB-1 Audio Video Bridging network cards, up to two SCM-1 CobraNet network cards, and up to two DAN-1 Dante network cards in any configuration. The SERVER-IO can support up to 12 standard Tesira I/O cards for up to 48 channels of audio I/O (e.g. mic and line level, VoIP, and telephone interface). The SERVER-IO can be used as a standalone or with Tesira expanders to form a highly scalable audio network.

- › Supports up to three DSP-2 cards
- › Up to 12 I/O cards with a maximum of 48 channels of audio
- › Up to 420 x 420 channels of digital I/O over AVB
- › Optional 32 x 32 CobraNet audio networking
- › Optional 64 x 64 Dante audio networking
- › Configuration and control networking over Ethernet
- › Supports network redundancy
- › Local GPIO connections
- › Front panel OLED display for device and system information
- › Processing algorithm: SpeechSense
- › Signal processing via intuitive software allows configuration and control for: signal routing and mixing, equalization, filtering, dynamics and delay, and much more
- › Wide selection of I/O cards available
- › 4-channel Acoustic Echo Cancellation card (also includes AGC and ANC) and Ambient Noise Compensation card available
- › Extensive expansion devices (input, output, logic, etc.) available as part of the Tesira digital audio networking platform
- › Rack mountable (3RU)
- › CE marked, UL listed, RoHS compliant
- › Covered by Biamp Systems' five-year warranty



DIGITAL SIGNAL PROCESSORS

CONFIGURABLE I/O CARDS



TESIRA AVB-1

The Tesira AVB-1 is a modular digital audio networking card for use with Tesira SERVER and SERVER-IO devices. The AVB-1 allows a Tesira system to send and receive digital audio over an Ethernet network utilizing AVB enabled switches. AVB/TSN (Audio Video Bridging/Time Sensitive Networking) is an open standard protocol compliant with IEEE standards. In addition to allowing up to 420 x 420 channels of interconnectivity over AVB from any other compliant device, Tesira uses AVB/TSN as the interconnect between DSPs and remote expander devices.

- › Up to 420 x 420 channels of digital I/O over AVB
- › Very low network latencies
- › Media and control data managed on a single network
- › Covered by Biamp Systems' five-year warranty
- › IEEE Standards based
 - 802.1AS
 - 802.1Qav
 - 802.1Qat
 - 1722
 - 1722.1



TESIRA DAN-1

The Tesira DAN-1 is an optional digital audio networking card for Tesira SERVER or SERVER-IO and allows for interface to other audio devices utilizing Dante networking protocol from Audinate®. The DAN-1 card can be factory installed or installed in the field. Featuring the Brooklyn II Module, the DAN-1 allows for up to 64 x 64 channels of digital audio into and out of a Tesira system. This interface takes full advantage of the Tesira platform while interfacing to devices that are equipped with Dante networking.

- › 64 x 64 channels of Dante
- › Dual RJ-45 connections for Primary and Secondary
- › Up to 32 x 32 simultaneous flows
- › Explicit Dante Input and Output blocks in Tesira Software
- › Can be installed in conjunction with AVB-1 and SCM-1
- › System configuration and control via Ethernet
- › Covered by Biamp Systems' five-year warranty



TESIRA SCM-1

The Tesira SCM-1 is a modular digital audio networking card for use with Tesira SERVER and SERVER-IO devices. The SCM-1 allows a Tesira system to send and receive digital audio using the CobraNet networking standard. Each SCM-1 CobraNet card allows for interconnectivity of 32 x 32 channels of digital audio. Implementing the SCM-1 allows a Tesira system to share audio with Biamp Audia® and Vocia® systems as well as other devices operating on a CobraNet network.

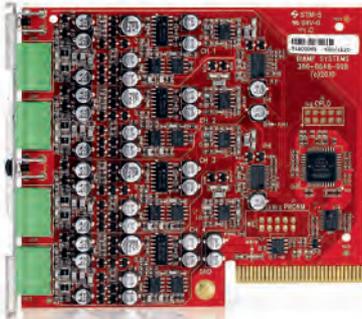
- › 32 x 32 channels of digital audio interconnectivity
- › Allows for sharing of digital audio with Audia and Vocia systems
- › Covered by Biamp Systems' five-year warranty



TESIRA DSP-2

The Tesira DSP-2 card is a modular digital signal processing card for use with Tesira SERVER and SERVER-IO devices. DSP-2 cards add extra resources and processing power to a Tesira system. As the necessary processing increases for larger systems, DSP-2 cards can be added in the field or at the Biamp factory. The Tesira SERVER can accommodate up to eight DSP-2 cards while SERVER-IO can support up to three.

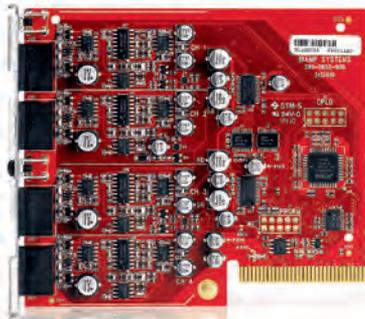
- › Adds additional processing power to Tesira systems
- › Each DSP-2 card has the power of one AudiaFLEX
- › DSP resources managed via Tesira software
- › RoHS compliant
- › Covered by Biamp Systems' five-year warranty



TESIRA SIC-4

The Tesira SIC-4 is a modular analog input card for use with Tesira SERVER and SERVER-IO devices. Each SIC-4 provides four channels of mic or line level audio input. The inputs are electrically balanced and provided on plug-in barrier strip connectors. Software control of each input includes gain with clip indicator, +48V phantom power, mute, level, and signal invert.

- › Four channels of balanced mic or line level input
- › Plug-in barrier strip connectors
- › 0 - 66dB gain, adjustable in 6dB increments
- › Clip indicator
- › +48V Phantom Power
- › 100 to +12dB fader range for level
- › Signal invert for reverse polarity
- › RoHS compliant and AES grounded
- › Covered by Biamp Systems' five-year warranty



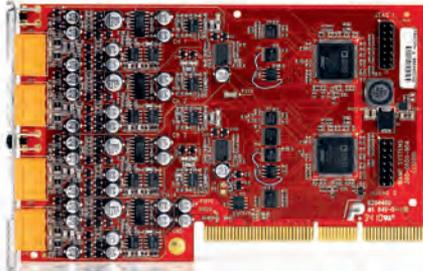
TESIRA SOC-4

The Tesira SOC-4 is a modular analog output card for use with Tesira SERVER and SERVER-IO devices. Each SOC-4 provides four channels of mic or line level audio output. The outputs are electrically balanced and provided on plug-in barrier strip connectors. Software control of each output includes mute, level, signal invert, and full-scale output reference.

- › Four channels of balanced mic or line level output
- › Plug-in barrier strip connectors
- › -100 to +12dB fader range for level
- › Signal invert for reverse polarity
- › Selectable full-scale output reference level (24dBu, 18dBu, 12dBu, 6dBu, 0dBu, -31dBu) for best interface/performance
- › RoHS compliant and AES grounded
- › Covered by Biamp Systems' five-year warranty

DIGITAL SIGNAL PROCESSORS

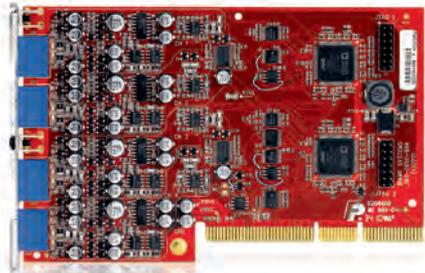
CONFIGURABLE I/O CARDS



TESIRA SEC-4

The Tesira SEC-4 is a modular analog input card for use with Tesira SERVER and SERVER-IO devices. Each SEC-4 provides four channels of mic or line level audio input with Acoustic Echo Cancellation and also features Biamp SpeechSense technology, which enhances speech processing by more accurately identifying human speech.

- › Four channels of balanced mic or line level input with AEC (Acoustic Echo Cancellation)
- › SpeechSense processing algorithm
- › Processing includes High-Pass Filter
- › Additional noise reduction on AEC outputs
- › Doesn't use processing resources from SERVER or SERVER-IO DSP
- › RoHS compliant and AES grounded
- › Covered by Biamp Systems' five-year warranty



TESIRA SAC-4

The Tesira SAC-4 is a modular analog input card for use with Tesira SERVER and SERVER-IO devices. Each SAC-4 provides four channels of mic or line level audio input with Ambient Noise Compensation. The ANC processing features the Biamp algorithm, AmbientSense, which intelligently distinguishes ambient noise from program material or announcements, thus greatly improving performance over traditional ambient noise compensation.

- › Four channels of balanced mic or line level input
- › Four channels of Ambient Noise Compensation using Biamp's proprietary AmbientSense algorithm
- › Automatically adjusts levels for program material or announcements, based on changes in ambient level
- › Up to four "sense" inputs per card
- › Does not use processing resources from SERVER or SERVER-IO DSP
- › RoHS compliant and AES grounded
- › Covered by Biamp Systems' five-year warranty



TESIRA SVC-2

The Tesira SVC-2 is a modular Voice over Internet Protocol (VoIP) card for use with Tesira SERVER and SERVER-IO devices. The SVC-2 allows a Tesira system to connect directly to IP-based telephone systems. When used in conjunction with Acoustic Echo Cancellation (AEC) processing, Tesira becomes a powerful, flexible, and affordable conferencing platform.

- › Control via Tesira software or third-party control
- › Logic control within Tesira or RCB devices
- › Caller ID, Hold capability, Redial, 16-entry Speed Dial
- › Adjustable auto-answer
- › Country-specific tone plans
- › SIP v2 (RFC 3261 and companion RFCs)
- › SIP authentication
- › Voice activity detection
- › On-hook dialing
- › Multiple CODEC support
- › RoHS compliant
- › Covered by Biamp Systems' five-year warranty



TESIRA STC-2

The Tesira STC-2 is a modular telephone interface card for use with Tesira SERVER and SERVER-IO devices. The STC-2 allows a Tesira system to connect directly to standard analog telephone lines. Each channel includes line-echo cancellation, noise suppression, caller ID decoding, ring detection/validation, DTMF decoding, and call progress tone decoding. When used in conjunction with Acoustic Echo Cancellation (AEC) processing, Tesira becomes a powerful, flexible, and affordable conferencing platform.

- › Initiate outgoing calls
 - DTMF tone dialing - Redial
 - Speed-dialing - Flash
- › Detect and answer incoming calls
- › Line echo cancellation
- › TouchTone™ decoding Caller ID reception
- › Call progress detection
- › Line intrusion detection
- › Noise suppression filter
- › Continuous line status and fault monitoring
- › RoHS compliant and AES grounded
- › Covered by Biamp Systems' five-year warranty

DIGITAL SIGNAL PROCESSORS

FIXED I/O



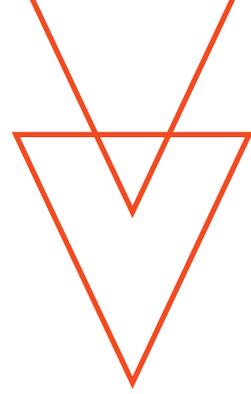
TESIRAFORTÉ AI

The TesiraFORTÉ AI is a fixed I/O DSP with 12 analog inputs and 8 analog outputs, and includes up to 8 channels of configurable USB audio. TesiraFORTÉ AVB AI adds AVB/TSN digital audio networking. The AVB model can be used as a standalone device or can be combined with other Tesira AVB DSPs, expanders, amplifiers, and controllers. TesiraFORTÉ DAN AI adds Dante digital audio networking.

- › 128 x 128 channels of AVB (AVB model only)
- › 32 x 32 channels of Dante (DAN model only)
- › 12 mic/line level inputs, 8 mic/line level outputs
- › Gigabit Ethernet port
- › RS-232 serial port
- › 4-pin GPIO
- › 2-line OLED display with capacitive-touch navigation
- › Rack mountable (1RU)
- › System configuration and control via Ethernet
- › Internal universal power supply
- › Signal processing via intuitive software allows configuration and control for signal routing, mixing, equalization, filtering, and delay
- › CE marked, UL listed, and RoHS compliant
- › Covered by Biamp Systems' five-year warranty



(AVB Model Shown)



TESIRAFORTÉ CI

The TesiraFORTÉ CI is a fixed I/O DSP with 12 analog inputs and 8 analog outputs, and includes Acoustic Echo Cancellation (AEC) technology on all 12 inputs. It also includes up to 8 channels of configurable USB audio. TesiraFORTÉ AVB CI adds AVB/TSN digital audio networking. The AVB model can be used as a standalone device or can be combined with other Tesira AVB DSPs, expanders, amplifiers, and controllers. TesiraFORTÉ DAN CI adds Dante digital audio networking.

- › 128 x 128 channels of AVB (AVB model only)
- › 32 x 32 channels of Dante (DAN model only)
- › 12 mic/line level inputs with AEC, 8 mic/line level outputs
- › Gigabit Ethernet port
- › RS-232 serial port
- › 4-pin GPIO
- › 2-line OLED display with capacitive-touch navigation
- › Rack mountable (1RU)
- › System configuration and control via Ethernet
- › Internal universal power supply
- › Signal processing via intuitive software allows configuration and control for signal routing, mixing, equalization, filtering, and delay
- › CE marked, UL listed, and RoHS compliant
- › Covered by Biamp Systems' five-year warranty



(AVB Model Shown)

DIGITAL SIGNAL PROCESSORS

FIXED I/O



TESIRAFORTÉ VT

The TesiraFORTÉ VT is a fixed I/O DSP with 12 analog inputs and 8 analog outputs, and includes Acoustic Echo Cancellation (AEC) technology on all 12 inputs. It includes up to 8 channels of configurable USB audio, a 2-channel VoIP interface, and a standard FXO telephone interface. TesiraFORTÉ AVB VT adds AVB/TSN digital audio networking. The AVB model can be used as a standalone device or can be combined with other Tesira AVB DSPs, expanders, amplifiers, and controllers. TesiraFORTÉ DAN VT adds Dante digital audio networking.

- › 128 x 128 channels of AVB (AVB model only)
- › 32 x 32 channels of Dante (DAN model only)
- › 12 mic/line level inputs with AEC, 8 mic/line level outputs
- › Gigabit Ethernet port
- › RS-232 serial port
- › 4-pin GPIO
- › 2-line OLED display with capacitive-touch navigation
- › Rack mountable (1RU)
- › System configuration and control via Ethernet
- › Internal universal power supply
- › SIP VoIP interface via RJ-45 connector
- › Standard FXO telephone interface via RJ-11 connector
- › Signal processing via intuitive software allows configuration and control for signal routing, mixing, equalization, filtering, and delay
- › CE marked, UL listed, and RoHS compliant
- › Covered by Biamp Systems' five-year warranty



(AVB Model Shown)



TESIRAFORTÉ VT4

The TesiraFORTÉ AVB VT4 and TesiraFORTÉ DAN VT4 are fixed I/O DSPs with 4 analog inputs and 4 analog outputs, and includes Acoustic Echo Cancellation (AEC) technology on all 4 inputs. Each model also includes up to 8 channels of configurable USB audio, a 2-channel VoIP interface, and a standard FXO telephone interface. TesiraFORTÉ AVB VT4 includes AVB/TSN digital audio networking, and can be used as a standalone device or can be combined with other Tesira AVB DSPs, expanders, amplifiers, and controllers. TesiraFORTÉ DAN VT4 includes Dante digital audio networking.

- › 128 x 128 channels of AVB (AVB model only)
- › 32 x 32 channels of Dante (DAN model only)
- › 4 mic/line level inputs with AEC, 4 mic/line level outputs
- › Gigabit Ethernet port
- › RS-232 serial port
- › 4-pin GPIO
- › 2-line OLED display with capacitive-touch navigation
- › Rack mountable (1RU)
- › System configuration and control via Ethernet
- › Internal universal power supply
- › SIP VoIP interface via RJ-45 connector
- › Standard FXO telephone interface via RJ-11 connector
- › Signal processing via intuitive software allows configuration and control for signal routing, mixing, equalization, filtering, and delay
- › CE marked, UL listed, and RoHS compliant
- › Covered by Biamp Systems' five-year warranty



(AVB Model Shown)

DIGITAL SIGNAL PROCESSORS

VIDEO ENCODERS AND DECODERS

TESIRALUX IDH-1



The TesiraLUX IDH-1 is an AVB/TSN enabled video encoder capable of transmitting video signals up to and including 4K60. The IDH-1 functions as a video DSP in a Tesira media system and is configured through the Tesira configuration software. Acting as an AVB talker, the IDH-1 fully integrates digital audio and video on a single network, allowing for automatic lip sync management and end-to-end network transit latencies of 1.5 frames or less. Multiple software-based options are available for managing bandwidth, including setting maximum resolution, minimum frame rate, and/or a rate of compression. The AVB/TSN streams can be transmitted over 1Gb or 10Gb ports while control signals are managed via a separate 1Gb Ethernet port. The IDH-1 accepts 8 channels of PCM audio for embedding/de-embedding, and includes 2 mic/line level analog inputs. The TesiraLUX IDH-1 can be used as a standalone device (paired with a TesiraLUX OH-1) or can be combined with other Tesira DSPs, expanders, amplifiers, and controllers.

- › Includes one HDMI® port and one DisplayPort™ 1.2 port
- › Accepts video signals up to and including 4K60
- › Flexible color space including Rec. 2020
- › Automatic lip sync management
- › Supports 8 channel PCM audio for embedding/de-embedding
- › Automated EDID management between TesiraLUX and the input source
- › Flexible bandwidth management options
- › 2 mic/line level analog audio inputs
- › 4 logic connections can be used as inputs or outputs
- › Optional mounting accessories available
- › CE marked, UL listed, and RoHS compliant
- › Covered by Biamp Systems' five-year warranty

TESIRALUX OH-1



The TesiraLUX OH-1 is an AVB/TSN enabled video decoder capable of outputting video signals up to and including 4K60. The OH-1 functions as a video DSP in a Tesira media system and is configured through the Tesira configuration software. Acting as an AVB listener, the OH-1 fully integrates digital audio and video on a single network, allowing for automatic lip sync management and end-to-end network transit latencies of 1.5 frames or less. The AVB/TSN streams can be received over 1Gb or 10Gb ports while control signals are managed via a separate 1Gb Ethernet port. The OH-1 accepts 8 channels of PCM audio for embedding/de-embedding, and includes 2 mic/line level analog outputs. The TesiraLUX OH-1 can be used as a standalone device (paired with a TesiraLUX IDH-1) or can be combined with other Tesira DSPs, expanders, amplifiers, and controllers.

- › Includes one HDMI port
- › Outputs video signals up to and including 4K60
- › Flexible color space including Rec. 2020
- › Automatic lip sync management
- › Supports 8 channel PCM audio for embedding/de-embedding
- › Automated EDID management between TesiraLUX and the output display
- › 2 mic/line level analog audio outputs
- › 4 logic connections can be used as inputs or outputs
- › Optional mounting accessories available
- › CE marked, UL listed, and RoHS compliant
- › Covered by Biamp Systems' five-year warranty



AMPLIFIERS



TESIRA AMP-4175R

The Tesira AMP-4175R is a four channel digital networked amplifier. It is AVB/TSN enabled and delivers 175 watts per channel. It is rack mountable and part of an integrated Tesira audio network. It also offers fault reporting, impedance monitoring, and optional analog failover.



- › Four channels; 175W per channel
- › Impedance monitoring
- › Configurable via Tesira software
- › Dual AVB ports
- › Bridgeable channels
- › Optional analog failover
- › Optional I/O expander card slots
- › Front panel OLED display
- › Front panel capacitive touch navigation
- › Front panel control of individual and chassis-wide mutes/levels (defeatable)
- › Rack mountable (2RU)
- › CE marked, UL listed, and RoHS compliant
- › Covered by Biamp Systems' five-year warranty



TESIRA AMP-4300R CV

The Tesira AMP-4300R CV is a four channel digital networked, constant voltage 70V/100V amplifier. It is AVB/TSN enabled and delivers 300 watts per channel. It is rack mountable, and part of an integrated Tesira audio network. It also offers fault reporting, impedance monitoring, and optional analog failover.



- › Four channels; 300W per channel
- › Impedance monitoring
- › Configurable via Tesira software
- › Dual AVB ports
- › Bridgeable channels
- › Optional analog failover
- › Optional I/O expander card slot
- › Front panel OLED display
- › Front panel capacitive touch navigation
- › Front panel control of individual and chassis-wide mutes/levels (defeatable)
- › Rack mountable (2RU)
- › CE marked, UL listed, and RoHS compliant
- › Covered by Biamp Systems' five-year warranty



TESIRA AMP-4350R

The Tesira AMP-4350R is a four channel digital networked amplifier. It is AVB/TSN enabled and delivers 350 watts per channel. It is rack mountable, and part of an integrated Tesira audio network. It also offers fault reporting, impedance monitoring, and optional analog failover.

- › Four channels; 350W per channel
- › Impedance monitoring
- › Configurable via Tesira software
- › Dual AVB ports
- › Bridgeable channels
- › Optional analog failover
- › Optional I/O expander card slot
- › Front panel OLED display
- › Front panel capacitive touch navigation
- › Front panel control of individual and chassis-wide mutes/levels (defeatable)
- › Rack mountable (2RU)
- › CE marked, UL listed, and RoHS compliant
- › Covered by Biamp Systems' five-year warranty



TESIRA AMP-8175R

The Tesira AMP-8175R is an eight channel digital networked amplifier. It is AVB/TSN enabled and delivers 175 watts per channel. It is rack mountable, and part of an integrated Tesira audio network. It also offers fault reporting, impedance monitoring, and optional analog failover.

- › Eight channels; 175W per channel
- › Impedance monitoring
- › Configurable via Tesira software
- › Dual AVB ports
- › Bridgeable channels
- › Optional analog failover
- › Optional I/O expander card slots
- › Front panel OLED display
- › Front panel capacitive touch navigation
- › Front panel control of individual and chassis-wide mutes/levels (defeatable)
- › Rack mountable (2RU)
- › CE marked, UL listed, and RoHS compliant
- › Covered by Biamp Systems' five-year warranty

AMPLIFIERS



AMP-A460H

The AMP-A460H is a four channel amplifier delivering 60 watts per channel in a sleek, compact design. It is a half-rack, D-class amplifier that operates in near silence with no need for internal cooling fans. It ships with a rack mounting kit for a single unit installation or mounting two units side-by-side.

- › Four channels; 60W per channel
- › Bridgeable channels
- › Class D amplifier topology
- › Three manual switches provide: constant voltage operation, bridging channels, and a high-pass filter option
- › Supports both 70V and 100V Constant Voltage Systems
- › LED indicators for each output channel
- › Rack mountable; includes mounting kit
- › No additional software needed
- › CE marked, UL listed, and RoHS compliant
- › Covered by Biamp Systems' five-year warranty

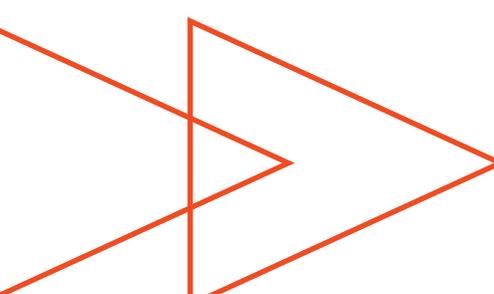
TESIRA AMP-450P

The Tesira AMP-450P is a four channel PoE+ conferencing amplifier. The output channels are software configurable, including selectable power versus channel count. The AMP-450P includes an internal limiter, and is capable of providing 3 watts of continuous power to all four channels. The Tesira AMP-450P is also capable of operating in a burst mode to handle peak signals, providing up to 50 watts (4 Ω) or 30 watts (8 Ω) per channel.

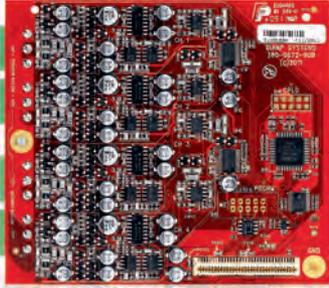


AVAILABLE IN Q2 2018

- › Four channels; 3W continuous per channel
- › Burst mode to handle peak signals; supports up to 50W (4 Ω) or 30W (8 Ω) per channel
- › PoE+ powered
- › Class D amplifier topology
- › Fanless operation
- › Software-selectable power versus channel count
- › Includes internal limiter function
- › Evaluated to the requirements of UL 2043 and is suitable for use in air handling spaces
- › LED indicators for power/status and amp status
- › Configurable via Tesira software
- › CE marked, UL listed, and RoHS compliant
- › Covered by Biamp Systems' five-year warranty



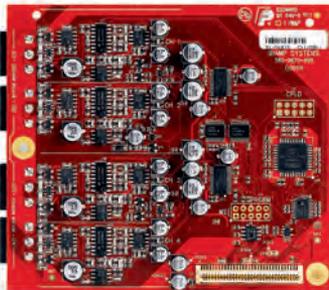
AMPLIFIERS EXPANDER CARDS



TESIRA EIC-4

The Tesira EIC-4 expander card is an optional card that can be installed in the Tesira EX-MOD, AMP-4175R, AMP-4300R CV, AMP-4350R, and AMP-8175R. Each EIC-4 provides four channels of mic or line level audio input. The inputs are electrically balanced and provided on plug-in barrier strip connectors. Software control of each input includes gain with clip indicator, +48V phantom power, mute, level, and signal invert.

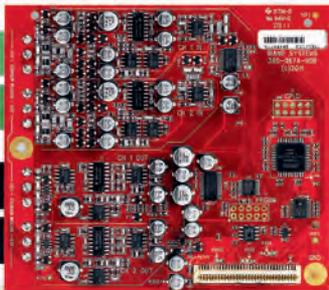
- › Four channels of balanced mic or line level input
- › Plug-in barrier strip connectors
- › 0 – 66dB gain, adjustable in 6dB increments
- › Clip indicator
- › +48V Phantom Power
- › -100dB to +12dB fader range for level
- › Signal invert for reverse polarity
- › RoHS compliant and AES grounded
- › Covered by Biamp Systems' five-year warranty



TESIRA EOC-4

The Tesira EOC-4 expander card is an optional card that can be installed in the Tesira EX-MOD, AMP-4175R, AMP-4300R CV, AMP-4350R, and AMP-8175R. Each EOC-4 provides four channels of mic or line level audio output. The outputs are electrically balanced and provided on plug-in barrier strip connectors. Software control of each output includes mute, level, signal invert, and full-scale output reference.

- › Four channels of balanced mic or line level output
- › Plug-in barrier strip connectors
- › -100dB to +12dB fader range for level
- › Signal invert for reverse polarity
- › Selectable full-scale output reference level (24dBu, 18dBu, 12dBu, 6dBu, 0dBu, -31dBu) for best interface/performance
- › RoHS compliant and AES grounded
- › Covered by Biamp Systems' five-year warranty



TESIRA EIOC-4

The Tesira EIOC-4 expander card is an optional card that can be installed in the Tesira EX-MOD, AMP-4175R, AMP-4300R CV, AMP-4350R, and AMP-8175R. Each EIOC-4 provides two channels of mic or line level audio input and two channels of mic or line level audio output. The inputs and outputs are electrically balanced and provided on plug-in barrier strip connectors. Software control of each input includes gain with clip indicator, +48V phantom power, mute, level, and signal invert; whereas control for each output includes mute, level, signal invert, and full-scale output reference.

- › Two channels of balanced mic or line level input
- › Two channels of balanced mic or line level output
- › 0 – 66dB gain, adjustable in 6dB increments on inputs
- › +48V Phantom Power on inputs
- › Selectable full-scale output reference level (24dBu, 18dBu, 12dBu, 6dBu, 0dBu, -31dBu) for best interface/performance
- › RoHS compliant and AES grounded
- › Covered by Biamp Systems' five-year warranty

EXPANDERS

TESIRA EX-IN



The Tesira EX-IN is a half-rack expander box for use with AVB-enabled Tesira DSPs. The EX-IN is a 4-channel mic or line level audio input expander. The expander communicates with the Tesira AVB network for audio networking, configuration, and control, and is powered by PoE+.

- › Four channels of balanced mic or line level input
- › 0 – 66dB gain, adjustable in 6dB increments
- › +48V Phantom Power
- › -100 to +12dB fader range for level
- › Audio and control networking over AVB/TSN
- › Powered by PoE+
- › Plug-in barrier strip connectors
- › Front panel LEDs for device status indications
- › Half-rack chassis
- › RoHS compliant and AES grounded
- › Covered by Biamp Systems' five-year warranty

TESIRA EX-OUT



The Tesira EX-OUT is a half-rack expander box for use with AVB-enabled Tesira DSPs. The EX-OUT is a 4-channel mic or line level audio output expander. The expander communicates with the Tesira AVB network for audio networking, configuration, and control, and is powered by PoE+.

- › Four channels of balanced mic or line level output
- › -100 to +12dB fader range for level
- › Signal invert for reverse polarity
- › Selectable full-scale output reference level (24dBu, 18dBu, 12dBu, 6dBu, 0dBu, -31dBu) for best interface/performance
- › Audio and control networking over AVB/TSN
- › Powered by PoE+
- › Plug-in barrier strip connectors
- › Front panel LEDs for device status indications
- › Half-rack chassis
- › RoHS compliant and AES grounded
- › Covered by Biamp Systems' five-year warranty

TESIRA EX-AEC



The Tesira EX-AEC is a half-rack expander box for use with AVB-enabled Tesira DSPs. The EX-AEC is a 4-channel mic or line level audio input expander with AEC (Acoustic Echo Cancellation). The expander communicates with the Tesira AVB network for audio networking, configuration, and control, and is powered by PoE+.

- › Four channels of balanced mic or line level input with AEC (Acoustic Echo Cancellation)
- › 0 – 66dB gain, adjustable in 6dB increments
- › +48V Phantom Power
- › -100 to +12dB fader range for level
- › Audio and control networking over AVB/TSN
- › Powered by PoE+
- › Plug-in barrier strip connectors
- › Front panel LEDs for device status indications
- › Half-rack chassis
- › RoHS compliant and AES grounded
- › Covered by Biamp Systems' five-year warranty

TESIRA EX-IO



The Tesira EX-IO is a half-rack expander box for use with AVB-enabled Tesira DSPs. The EX-IO is a 4-channel input and output expander. The expander features two channels of mic or line level audio input and two channels of mic or line level audio output. The expander communicates with the Tesira AVB network for audio networking, configuration, and control, and is powered by PoE+.

- › Two channels of balanced mic or line level input
- › Two channels of balanced mic or line level output
- › 0 – 66dB gain, adjustable in 6dB increments on inputs
- › Selectable full-scale output reference level (24dBu, 18dBu, 12dBu, 6dBu, 0dBu, -31dBu) for best interface/performance
- › +48V Phantom Power on inputs
- › Powered by PoE+
- › Half-rack chassis
- › RoHS compliant and AES grounded
- › Covered by Biamp Systems' five-year warranty

TESIRA EX-MOD

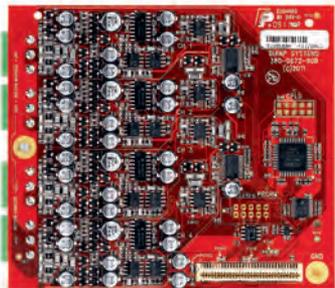


The Tesira EX-MOD is a modular expander device that is designed for use with AVB-enabled Tesira DSPs. It can be configured with up to three 4-channel input and/or output cards for a maximum of 12 channels. The expander communicates with the Tesira AVB network for audio networking, configuration, and control.

- › Can be configured with up to three I/O cards
- › Up to 12 channels of analog audio
- › AVB/TSN connection to Tesira system for audio networking, configuration and control
- › Plug-in barrier strip connections on cards
- › Front panel LEDs for device status indications
- › Internal universal power supply
- › Rack mountable (1RU)
- › CE marked, UL listed, RoHS compliant
- › Covered by Biamp Systems' five-year warranty

EXPANDERS

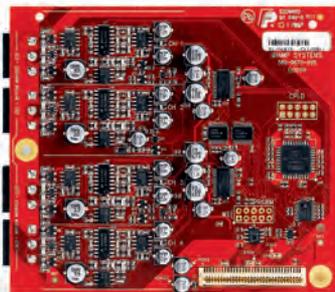
EX-MOD EXPANDER CARDS



TESIRA EIC-4

The Tesira EIC-4 expander card is an optional card that can be installed in the Tesira EX-MOD, AMP-4175R, AMP-4300R CV, AMP-4350R, and AMP-8175R. Each EIC-4 provides four channels of mic or line level audio input. The inputs are electrically balanced and provided on plug-in barrier strip connectors. Software control of each input includes gain with clip indicator, +48V phantom power, mute, level, and signal invert.

- › Four channels of balanced mic or line level input
- › Plug-in barrier strip connectors
- › 0 – 66dB gain, adjustable in 6dB increments
- › Clip indicator
- › +48V Phantom Power
- › -100dB to +12dB fader range for level
- › Signal invert for reverse polarity
- › RoHS compliant and AES grounded
- › Covered by Biamp Systems' five-year warranty



TESIRA EOC-4

The Tesira EOC-4 expander card is an optional card that can be installed in the Tesira EX-MOD, AMP-4175R, AMP-4300R CV, AMP-4350R, and AMP-8175R. Each EOC-4 provides four channels of mic or line level audio output. The outputs are electrically balanced and provided on plug-in barrier strip connectors. Software control of each output includes mute, level, signal invert, and full-scale output reference.

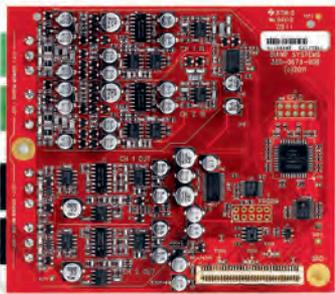
- › Four channels of balanced mic or line level output
- › Plug-in barrier strip connectors
- › -100dB to +12dB fader range for level
- › Signal invert for reverse polarity
- › Selectable full-scale output reference level (24dBu, 18dBu, 12dBu, 6dBu, 0dBu, -31dBu) for best interface/performance
- › RoHS compliant and AES grounded
- › Covered by Biamp Systems' five-year warranty



TESIRA EEC-4

The Tesira EEC-4 expander card is an optional card that can be installed in the Tesira EX-MOD. Each EEC-4 provides four channels of mic or line level audio input with AEC (Acoustic Echo Cancellation). The inputs are electrically balanced and provided on plug-in barrier strip connectors. Software control of each input includes gain with clip indicator, +48V phantom power, mute, level, and signal invert.

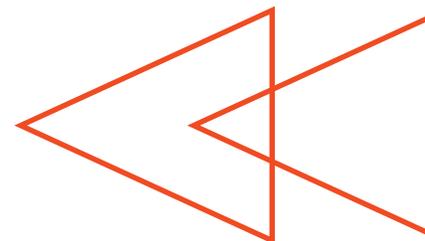
- › Four channels of balanced mic or line level input with AEC (Acoustic Echo Cancellation)
- › Plug-in barrier strip connectors
- › 0 – 66dB gain, adjustable in 6dB increments
- › Clip indicator
- › +48V Phantom Power
- › -100dB to +12dB fader range for level
- › Signal invert for reverse polarity
- › RoHS compliant and AES grounded
- › Covered by Biamp Systems' five-year warranty



TESIRA EIOC-4

The Tesira EIOC-4 expander card is an optional card that can be installed in the Tesira EX-MOD, AMP-4175R, AMP-4300R CV, AMP-4350R, and AMP-8175R. Each EIOC-4 provides two channels of mic or line level audio input and two channels of mic or line level audio output. The inputs and outputs are electrically balanced and provided on plug-in barrier strip connectors. Software control of each input includes gain with clip indicator, +48V phantom power, mute, level, and signal invert; whereas control for each output includes mute, level, signal invert, and full-scale output reference.

- › Two channels of balanced mic or line level input
- › Two channels of balanced mic or line level output
- › 0 – 66dB gain, adjustable in 6dB increments on inputs
- › +48V Phantom Power on inputs
- › Selectable full-scale output reference level (24dBu, 18dBu, 12dBu, 6dBu, 0dBu, -31dBu) for best interface/performance
- › RoHS compliant and AES grounded
- › Covered by Biamp Systems' five-year warranty



MICROPHONES



AVAILABLE IN Q2 2018

TESIRA TCM-1

The Tesira TCM-1 is an AVB ceiling microphone comprised of a pendant microphone and plenum box. Each microphone includes beamtracking™ technology with three 120-degree zones, providing full 360-degree coverage of the meeting space. The plenum box is equipped with an additional RJ-45 connector for daisy-chain connections; a maximum of three microphones are permitted per daisy chain (one TCM-1 or TCM-1A required, plus up to two TCM-1EX).

- › Beamtracking technology actively tracks and intelligently mixes conversations
- › Three 120° zones for 360° coverage
- › Plenum box includes DSP for beamtracking
- › LED mute status indicator
- › User-adjustable mic height
- › Evaluated to the requirements of UL 2043 and is suitable for use in air handling spaces
- › Additional RJ-45 for daisy-chain connection to a TCM-1EX microphone (maximum of three mics per daisy chain)
- › CE marked, UL listed, and RoHS compliant
- › Covered by Biamp Systems' five-year warranty



AVAILABLE IN Q2 2018

TESIRA TCM-1A

The TCM-1A is an AVB ceiling microphone and PoE+ amplifier comprised of a pendant microphone and plenum box. Each microphone includes beamtracking technology with three 120-degree zones, providing full 360-degree coverage of the meeting space. The plenum box is equipped with an additional RJ-45 connector for daisy-chain connections; a maximum of three microphones are permitted per daisy chain (one TCM-1 or TCM-1A required, plus up to two TCM-1EX). The 2-channel PoE+ amplifier includes an internal limiter, selectable power, and a burst mode to handle peak signals.

- › Beamtracking technology actively tracks and intelligently mixes conversations
- › Three 120° zones for 360° coverage
- › Plenum box includes a PoE+ amplifier
 - › Two channels; 4W continuous per channel
 - › Burst mode to handle peak loads; supports up to 40W (4Ω) or 30W (8Ω) per channel
 - › Software-selectable power vs. channel count
 - › Includes internal limiter function
- › LED mute status indicator
- › User-adjustable mic height
- › Evaluated to the requirements of UL 2043 and is suitable for use in air handling spaces
- › Additional RJ-45 for daisy-chain connection to a TCM-1EX microphone (maximum of three mics per daisy chain)
- › CE marked, UL listed, and RoHS compliant
- › Covered by Biamp Systems' five-year warranty



AVAILABLE IN Q2 2018

TESIRA TCM-1EX

The Tesira TCM-1EX is an expansion AVB ceiling microphone intended to be used as a second and third microphone in conjunction with a TCM-1 or TCM-1A; it cannot operate as a standalone device. Each microphone includes beamtracking technology with three 120-degree zones, providing full 360-degree coverage of the meeting space. The plenum box is equipped with an additional RJ-45 connector for daisy-chain connections; a maximum of three microphones are permitted per daisy chain (one TCM-1 or TCM-1A required, plus up to two TCM-1EX).

- › Must be used with a Tesira TCM-1 or TCM-1A microphone
- › Beamtracking technology actively tracks and intelligently mixes conversations
- › Evaluated to the requirements of UL 2043 and is suitable for use in air handling spaces
- › Three 120° zones for 360° coverage
- › Additional RJ-45 for daisy-chain connection to another TCM-1EX microphone (maximum of three mics per daisy chain)
- › CE marked, UL listed, and RoHS compliant
- › Covered by Biamp Systems' five-year warranty



CM1-6W ▪ CM1-6WS

The CM1-6W and CM1-6WS are miniaturized condenser microphones with a fully integrated preamp designed with very high sensitivity for distance miking. They have complete immunity from RF interference caused by cell phones and GSM devices. A cardioid capsule (CM1-6W), or supercardioid capsule (CM1-6WS) is available, allowing these microphones to be used in a wide variety of applications.

- › High output for distance miking
- › Optimized for voice recognition
- › Immunity from RF interference
- › Operates on 18-52 volts phantom power
- › Point and shoot directivity
- › Miniaturized integrated preamp circuitry
- › No external power adapter needed
- › 12 mm gold vapor diaphragm
- › Extremely low noise, high sensitivity
- › Available with a cardioid or supercardioid capsule
- › Optional junction box available
- › Covered by three-year warranty

CONTROLS



TESIRA EX-LOGIC

The Tesira EX-LOGIC is a half-rack logic box for use with Tesira DSPs. The EX-LOGIC provides both logic inputs and outputs and, through software, can be configured as a control interface. There are 16 total connections that can be used as inputs or outputs. 12 of the connections are designed as logic connections only; the remaining four connections can also be used for logic connections or as variable voltage control inputs (e.g. interface to a potentiometer). The expander communicates with the Tesira AVB network for audio networking, configuration, and control, and is powered by PoE.

- › 16 total logic connections that can be used as inputs or outputs
- › 4 of the 16 connections can be used as voltage control inputs
- › Inputs can control actions within the software including: presets, mutes, ducking, room combining, paging functions, and much more
- › Outputs can trigger status relays or indicators, or provide logic input to other controllable equipment
- › PoE powered
- › Half-rack chassis
- › RoHS compliant and AES grounded
- › Covered by Biamp Systems' five-year warranty



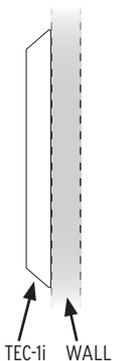
The TEC-1s surface-mounts to any wall; multiple mounting options accommodate international back boxes

TESIRA TEC-1s • TESIRA TEC-1i

The Tesira TEC-1s and TEC-1i are Ethernet control devices for use with all Tesira and TesiraFORTÉ systems. Both devices offer a simple, intuitive interface for end users and can be installed and configured to fit the unique needs of a particular application. These devices connect via standard CAT-5/6/7 cabling and are powered over Ethernet, eliminating the need for custom cabling and local power sources. Multiple remote control panels can be connected over large distances using standard network technology.

The TEC-1s is surface-mounted while the TEC-1i can be flush-mounted into any wall.

- › Adjustment and/or initiation of 32 selectable system volumes and actions
- › Volumes are any individual or grouped system levels, including inputs, outputs, matrix cross-points, etc.
- › Actions are any individual or grouped system operations, including presets, source selection, mutes, ducking, combining, etc.
- › Control functions are programmed in the Tesira system design software
- › High contrast OLED display with a wide viewing angle
- › The display brightness can be adjusted to fit the ambient light present in the application and automatically dims when not in use
- › Capacitive touch technology eliminates protruding and moving parts to increase product reliability and longevity while simplifying cleaning
- › 330' (100m) Ethernet cable length can be extended with standard PoE network technology (routers, switches, hubs, media converters)
- › Connects with standard RJ-45 or IDC connector
- › Covered by Biamp Systems' five-year warranty



The TEC-1i flush-mounts to any wall; mounts using the retrofit plate (included) or installs in a Raco® 254 box for North American installations (not included)



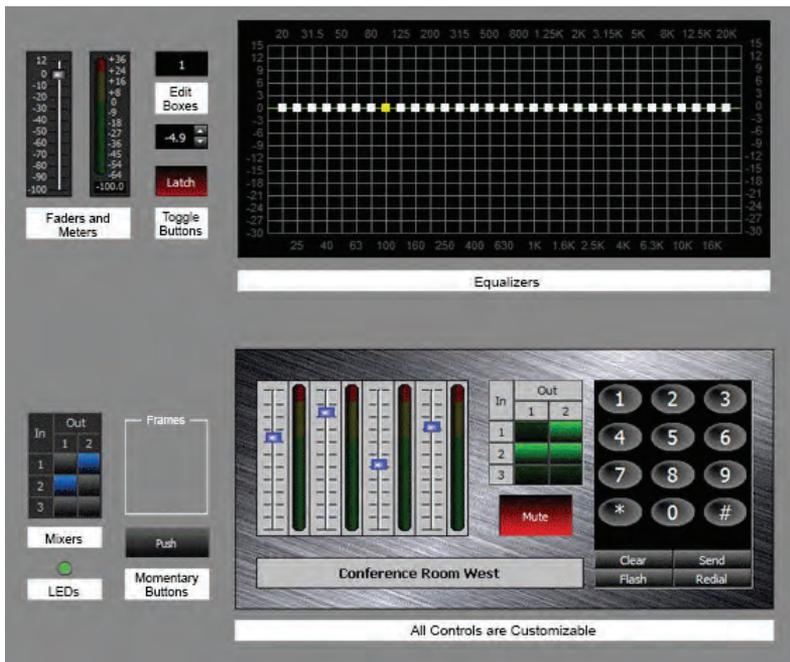
TESIRA HD-1

The Tesira HD-1 is a hardware dialer for Tesira DSPs. The HD-1 is compatible with Tesira SERVER and SERVER-IO with STC-2 or SVC-2 cards installed, as well as TesiraFORTÉ VT, TesiraFORTÉ AVB VT, TesiraFORTÉ DAN VT, TesiraFORTÉ AVB VT4, and TesiraFORTÉ DAN VT4 devices.

- › Telephony control over Ethernet
- › LCD display
- › 12-button dial pad
- › 100 programmable speed dial numbers
- › 4 navigation buttons
- › Power over Ethernet (PoE)
- › Covered by Biamp Systems' five-year warranty

BIAMP CANVAS

Biamp Canvas design and control software enables you to efficiently create and use customized control screens for the Tesira family of audio products. Biamp Canvas provides a flexible graphic control interface that can be tailored to meet the exact needs of the installation environment. With drag-and-drop functionality, you can place objects directly from the system design file into the software, creating pre-assigned control surfaces. We also added a variety of drawing tools to the software for customized graphic manipulation of controls, backgrounds, and labeling.



FEATURES

- › Create system control surfaces for PC/touch-screen
- › Place controls and assign them to system functions
- › Copy controls directly from system design objects
- › Customize control layout, function, and appearance
- › Control support for room combiners
- › Create/navigate multiple pages of operation
- › Restrict access to controls/pages via passwords
- › Works simultaneously with other system controls
- › Drag and drop programming
- › Update preset settings directly in Biamp Canvas



DESIGN SOFTWARE

TESIRA SOFTWARE

Tesira software is the interface for all system configurations. Creating the processing and system design for the application is done through a simple drag-and-drop interface. Toolbars allow control of processing, control, and diagnostic elements. Making audio and logic connections is fast and easy, and several options are available for displaying connection lines. System tools allow for easy device discovery and system configuration uploads.



FEATURES

- › Complete system configuration and control
- › Configuration engine confirms design, details hardware requirements for system
- › Partitions allow parts of the design to be kept separate from each other (although audio connections can be made between partitions)
- › Partitions compile separately, allowing unchanged partitions to stay online running while other partitions are changed, recompiled, and reloaded
- › A single partition can span multiple devices; a single device can have multiple partitions
- › New processing blocks; Über Filter and FIR Filter, Gain Sharing Automixer, Automatic Gain Control (AGC)
- › Many new line styles and features
- › Drag and drop creation and editing of presets
- › Logic Simulation
- › Enhanced Text Protocol includes data point monitoring
- › Selectable sample rates (48/96 kHz)

CONTACT US



SUPPORT

When you need help, you don't want long hold times or confusing voicemail systems. That's why we've streamlined our support process and created a dedicated support phone number. You can reach our award-winning Support team 24 hours a day, from anywhere in the world. If you're located in the U.S. or Canada, dial 1-877-242-6796 (1-877-BIAMP-XO). If you're located elsewhere, we'd still love to hear from you. Please visit our website at <http://www.biamp.com/how-to-get-help> to find the support phone number for your region or time zone.

Prefer to troubleshoot on your own? That's great too. Check out Cornerstone, our online technical support knowledgebase, at support.biamp.com. You'll find dozens of detailed articles designed to help you stay on track.

For training and how-to videos, visit the Biamp channel on YouTube. Our channel is optimized to help you quickly find what you're looking for. Trainings are organized by topic and we've crafted playlists to help you find groups of videos that pertain to a certain topic. Now, it's easier than ever to get the training and technical support you need from Biamp.

TRAINING

Biamp is committed to the continuing education of the pro AV industry. By understanding how to use Biamp products more effectively, you can build more efficient systems at a faster pace, allowing you to better manage time and resources by minimizing post-installation customer support costs.

We know you're busy, and it's difficult at times to get out of the office for in-person training. That's why our Tesira certification training is completely available in a self-paced online format.

However, we're still big believers in the value of hands-on equipment training, which is why we created the AV Lab advanced course. Our goal with the AV Lab is to provide you with the knowledge you need to complete even the most complex installations effectively and efficiently.

We also offer instructor-led webinars covering a variety of topics useful to beginners and advanced AV technicians alike. To learn more about our training offerings and webinars, visit biamp.com/training.

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DEVICE: BRC CR1 Unit #1
HOSTNAME: brcr1fcrs01 (172.22.217.100)

- power
- alarm
- activity
- status
- als

▲
▼
select

TESIRA SERVER-IO

BIAMP

BRC CR1 Unit #2
b7ocr1fcrs02

- power
- alarm
- activity
- status
- als

TESIRA SERVER-IO

BIAMP

DEVICE: BRC CR1 Unit #3
HOSTNAME: b7ocr1fcrs03 (172.22.217.100)

- power
- alarm
- activity
- status
- als

TESIRA SERVER-IO

BIAMP

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