

DATA SHEET

TESIRAFORTÉ® AVB VT4



The TesiraFORTÉ® AVB VT4 is a digital audio server with 4 analog inputs, 4 channels of Acoustic Echo Cancellation (AEC) technology, and 4 analog outputs. It also includes up to 8 channels of configurable USB audio, a 2-channel VoIP interface and a standard FXO telephone interface. USB audio allows TesiraFORTÉ to interface directly with USB audio hosts, as well as to take full advantage of today's most sophisticated conferencing solutions. TesiraFORTÉ AVB VT4 includes Audio Video Bridging (AVB) digital audio networking. It can be used as a standalone device or can be combined with other TesiraFORTÉ AVB devices and Tesira servers, expanders, and controllers. TesiraFORTÉ AVB VT4 also provides extensive audio processing, including but not limited to: AEC technology, signal routing and mixing, equalization, filtering, dynamics, and delay; as well as control, monitoring, and diagnostic tools; all configured through the Tesira configuration software. TesiraFORTÉ AVB VT4 is best-suited for smaller rooms that require high-quality audio solutions using VoIP, voice lift, mix-minus, and AEC.

BENEFITS

- Integrates VoIP, POTS, and USB audio in one product allowing integrators to choose the type of audio conferencing that works best for their installation.
- AVB allows audio networking via IEEE open standards protocol.
- Includes default configuration file allowing for plug-and-play usage.
- Highly scalable and cost-effective solution that can grow over time with the needs of the customer.
- 4 channels of AEC technology.
- SpeechSense™ technology to enhance speech processing.
- Integrates directly with soft codecs and other USB audio hosts.

FEATURES

- 128 x 128 channels of AVB
- 4 mic/line level inputs; 4 mic/line level outputs
- 4 channels of AEC
- Gigabit Ethernet port
- Up to 8 channels of configurable USB audio
- 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 a RJ-45 connector
- Standard FXO telephone interface via RJ-11 connector
- Fully compatible with Tesira AVB servers, endpoints, expanders, and controllers
- Signal processing via intuitive software allows configuration and control for signal routing, mixing, equalization, filtering, delay, and much more
- CE marked, UL listed, and RoHS compliant
- Covered by Biamp Systems' 5-year warranty

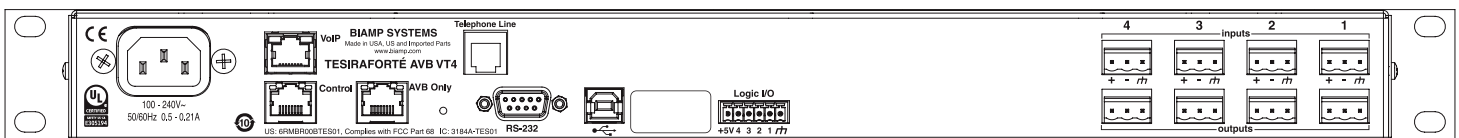
ARCHITECTS & ENGINEERS SPECIFICATION

The digital audio network server shall be designed exclusively for use with Tesira systems. The AVB model server shall support Audio Video Bridging (AVB) digital audio networking that shall allow up to 128 x 128 channels. The AVB Networking connection shall be implemented on a RJ-45 connector on the AVB model. The server shall support Ethernet connection for programming and control on a RJ-45 connector. The server shall have internal DSP processing. The server shall include 4 channels of General Purpose Input and Output connection (GPIO) for sending or receiving logic signals. The programming of the GPIO ports shall be software configurable. The server shall include a RS-232 connection for control data transmission into or out of the server and such operation shall be software programmable. The server shall include a Universal Serial Bus (USB) connection on a standard USB-B type connector. The server shall be software configurable to stream up to 8 channels of digital USB Audio Class 1 transmission either into or out of the server or simultaneous input and output. The server shall provide 4 balanced input connections for receiving of microphone or line level analog audio signals on screw-down, removable connectors. The input connections shall include Acoustic Echo Cancellation (AEC) hardware and firmware, the parameters, routing and operation of which shall be software programmable. The server shall provide 4 balanced output channels for the transmission of microphone or line level analog audio signals on screw-down, removable connectors. Each individual channel shall have its own dedicated connection. The server shall integrate to Voice Over Internet Protocol (VoIP) systems on a RJ-45 connector for two lines of VoIP communication and shall support Session Initiation Protocol (SIP) v2.0 or later. The server shall integrate to standard telephony communications on a RJ-11 connector for a single line of telephone communication. The server shall provide front panel OLED identification of server power, status, alarm, and activity as well as system-wide alarm. The server shall be rack mountable (1RU) and feature software configurable signal processing, including but not limited to: signal routing and mixing, equalization, filtering, dynamics, and delay, as well as control, monitoring, and diagnostic tools. The server shall control and proxy all Tesira expander-class devices and Tesira control devices. The server shall be CE marked, UL listed and shall be compliant with the RoHS directive. Warranty shall be five years. The server shall be TesiraFORTÉ AVB VT4.

TESIRAFORTÉ AVB VT4 SPECIFICATIONS

Frequency Response: 20Hz to 20kHz, +4dBu output	+0.25dB/-0.5dB	Phantom Power:	+48 VDC (7mA/input)
THD+N (22Hz to 22kHz): 0dB gain, +4dBu input	< 0.006%	Crosstalk, channel to channel, 1kHz: 0dB gain, +4dBu input	< -85dB
54dB gain, -50dBu input	< 0.040%	54dB gain, -50dBu input	< -75dB
EIN (no weighting, 22Hz to 22kHz):	< -125dBu	Sampling Rate:	48kHz
Dynamic Range (in presence of signal): 22Hz to 22kHz, 0dB gain	> 108dB	A/D - D/A Converters:	24-bit
Input Impedance (balanced):	8kΩ	Power Consumption (100-240VAC 50/60Hz):	< 35W
Output Impedance (balanced):	207Ω	USB:	
Maximum Input:	+24dBu	Bit Depth:	16- or 24-bit
Maximum Output (selectable):	+24dBu, +18dBu, +12dBu, +6dBu, 0dBu, -31dBu	Number of Channels:	up to 8
Input Gain Range: (6dB steps):	0dB to 66dB	Sample Rate:	48kHz
Overall Dimensions/Weight:	Height: 1.75 inches (44 mm) Width: 19.0 inches (483 mm) Depth: 10.5 inches (267 mm) Weight: 8 lbs (3.63 kg)	Compliance:	UL and cUL listed (USA & Canada) FCC Part 15B (USA) FCC Part 68 (USA) Industry Canada CS-03 (Canada) CE marked (Europe) RCM (Australia) RoHS Directive (Europe)
Environment:			
Ambient Operating Temperature Range:	32-104° F (0 - 40° C)		
Humidity:	0 - 98% non-condensing		
Altitude:	0-10,000 Feet (0-3000 Meters) MSL		

TESIRAFORTÉ AVB VT4 BACK PANEL



DATA SHEET

TESIRAFORTÉ® DAN VT4



The TesiraFORTÉ® DAN VT4 is a digital audio server with 32 bi-directional channels of Dante™ digital audio, 4 analog inputs, 4 channels of Acoustic Echo Cancellation (AEC) technology, and 4 analog outputs. It also includes up to 8 channels of configurable USB audio, a 2-channel VoIP interface and a standard FXO telephone interface. USB audio allows TesiraFORTÉ to interface directly with USB audio hosts, as well as to take full advantage of today's most sophisticated conferencing solutions. TesiraFORTÉ DAN VT4 also provides extensive audio processing, including but not limited to: AEC technology, signal routing and mixing, equalization, filtering, dynamics, and delay, as well as control, monitoring, and diagnostic tools; all configured through the Tesira configuration software. TesiraFORTÉ DAN VT4 is best-suited for smaller rooms that require high-quality audio solutions using VoIP, voice lift, mix-minus, and AEC.

BENEFITS

- Integrates VoIP, POTS, and USB audio in one product allowing integrators to choose the type of audio conferencing that works best for their installation.
- Includes default configuration file allowing for plug-and-play usage.
- Highly scalable and cost-effective solution that can grow over time with the needs of the customer.
- 4 channels of AEC technology.
- SpeechSense™ technology to enhance speech processing.
- Integrates directly with soft codecs and other USB audio hosts.

FEATURES

- 32x32 channels of digital audio networking via the Dante protocol
- 4 mic/line level inputs; 4 mic/line level outputs
- 4 channels of AEC
- Gigabit Ethernet port
- Up to 8 channels of configurable USB audio
- 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 a 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, delay, and much more
- CE marked, UL listed, and RoHS compliant
- Covered by Biamp Systems' 5-year warranty

ARCHITECTS & ENGINEERS SPECIFICATION

The digital audio network server shall be designed exclusively for use with Tesira systems. The server shall support Dante™ digital audio networking that shall allow up to 32 x 32 channels. The Dante Networking connection shall be implemented on a RJ-45 connector. The server shall support Ethernet connection for programming and control on a RJ-45 connector. The server shall have internal DSP processing. The server shall include 4 channels of General Purpose Input and Output connection (GPIO) for sending or receiving logic signals. The programming of the GPIO ports shall be software configurable. The server shall include a RS-232 connection for control data transmission into or out of the server and such operation shall be software programmable. The server shall include a Universal Serial Bus (USB) connection on a standard USB-B type connector. The server shall be software configurable to stream up to 8 channels of digital USB Audio Class 1 transmission either into or out of the server or simultaneous input and output. The server shall provide 4 balanced input connections for receiving of microphone or line level analog audio signals on screw-down, removable connectors. The input connections shall include Acoustic Echo Cancellation (AEC) hardware and firmware, the parameters, routing and operation of which shall be software programmable. The server shall provide 4 balanced output channels for the transmission of microphone or line level analog audio signals on screw-down, removable connectors. Each individual channel shall have its own dedicated connection. The server shall integrate to Voice Over Internet Protocol (VoIP) systems on a RJ-45 connector for two lines of VoIP communication and shall support Session Initiation Protocol (SIP) v2.0 or later. The server shall integrate to standard telephony communications on a RJ-11 connector for a single line of telephone communication. The server shall provide front panel OLED identification of server power, status, alarm, and activity as well as system-wide alarm. The server shall be rack mountable (1RU) and feature software configurable signal processing, including but not limited to: signal routing and mixing, equalization, filtering, dynamics, and delay, as well as control, monitoring, and diagnostic tools. The server shall be CE marked, UL listed and shall be compliant with the RoHS directive. Warranty shall be five years. The server shall be TesiraFORTÉ DAN VT4.

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Maximum Output (selectable):	+24dBu, +18dBu, +12dBu, +6dBu, 0dBu, -31dBu	Number of Channels:	up to 8
Input Gain Range: (6dB steps):	0dB to 66dB	Sample Rate:	48kHz
Overall Dimensions/Weight:		Compliance:	UL and cUL listed (USA & Canada)
Height: 1.75 inches (44 mm)			FCC Part 15B (USA)
Width: 19.0 inches (483 mm)			FCC Part 68 (USA)
Depth: 10.5 inches (267 mm)			Industry Canada CS-03 (Canada)
Weight: 8 lbs (3.63 kg)			CE marked (Europe)
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TESIRAFORTÉ DAN VT4 BACK PANEL

