

DATA SHEET

TESIRAFORTÉ® DAN AI

FIXED I/O DSP



TesiraFORTÉ® DAN AI is a fixed I/O DSP with 32 bi-directional channels of Dante™ digital audio, 12 analog inputs, 8 analog outputs, and includes up to 8 channels of configurable USB audio. 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 AI provides extensive audio processing, including but not limited to: signal routing and mixing, equalization, filtering, dynamics, and delay; as well as control, monitoring, and diagnostic tools; all configured through the Tesira software. TesiraFORTÉ DAN AI is best-suited for small- to medium-sized rooms that require high-quality audio solutions using voice lift and mix-minus, such as conference rooms or council chambers.

FEATURES

- 32 x 32 channels of digital audio networking via the Dante protocol
- AES67-enabled Dante endpoint
- 12 mic/line level inputs, 8 mic/line level outputs
- 2 Gigabit Ethernet ports: Dante digital audio and Tesira control
- Up to 8 channels of configurable USB audio
- RS-232 serial port
- 4-pin GPIO
- 2-line OLED display with capacitive-touch navigation
- Supports port authentication via IEEE 802.1X
- 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, delay and much more
- CE marked, UL listed, and RoHS compliant
- Covered by Biamp Systems' 5-year warranty

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ARCHITECTS & ENGINEERS SPECIFICATION

The fixed I/O DSP shall be designed exclusively for use with Tesira® systems. The fixed I/O DSP 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 fixed I/O DSP shall be interoperable in accordance with the AES67 standard. The fixed I/O DSP shall support Ethernet connection for programming and control on a RJ-45 connector. The fixed I/O DSP shall have internal DSP processing. The fixed I/O DSP 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 fixed I/O DSP shall include a RS-232 connection for control data transmission into or out of the fixed I/O DSP and such operation shall be software programmable. The fixed I/O DSP shall include a Universal Serial Bus (USB) connection on a standard USB-B type connector. The fixed I/O DSP shall be software configurable to stream up to 8 channels of digital USB Class 1 Audio transmission either into or out of the fixed I/O DSP or simultaneous input and output. The fixed I/O DSP shall support port authentication via IEEE 802.1X. The fixed I/O DSP shall provide 12 balanced input connections for receiving of microphone or line level analog audio signals on screw-down, removable connectors. The fixed I/O DSP shall provide 8 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 fixed I/O DSP shall provide front panel OLED identification of device power, status, alarm, and activity as well as system-wide alarm. The fixed I/O DSP 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 fixed I/O DSP shall be CE marked, UL listed, and shall be compliant with the RoHS directive. Warranty shall be five years. The fixed I/O DSP shall be TesiraFORTÉ® DAN AI.

TESIRAFORTÉ DAN AI SPECIFICATIONS

Frequency Response: 20Hz to 20kHz, +4dBu output: +0.25 dB/-0.5 dB	Crosstalk, channel to channel, 1 kHz: 0dB gain, +4dBu input: < -85dB 54dB gain, -50dBu input: < -75dB
THD+N (22Hz to 22kHz): 0dB gain, +4dBu input: < 0.006% 54dB gain, -50dBu input: < 0.040%	Sampling Rate: 48kHz
EIN (no weighting, 22Hz to 22kHz): < -125dBu	A/D - D/A Converters: 24-bit
Dynamic Range (in presence of signal) 22Hz to 22kHz, 0dB gain: > 108dB	Power Consumption: 100-240VAC 50/60Hz: < 35W
Input Impedance (balanced): 8kΩ	USB: Bit Depth: 16- or 24-bit Number of Channels: up to 8 Sample Rate: 48kHz
Output Impedance (balanced): 207Ω	Environment: Ambient Operating Temperature Range: 32-104° F (0-40° C) Humidity: 0-98%, non-condensing Altitude: 0-6,600 feet (0-2000 Meters) MSL
Maximum Input: +24dBu	Compliance: FCC Part 15B (USA) CE marked (Europe) UL und C-UL listed (USA and Canada) RCM (Australia) RoHS Directive (Europe)
Maximum Output (selectable): +24dBu, +18dBu, +12dBu, +6dBu, 0dBu, -31dBu	
Input Gain Range (6dB steps): 0-66dB	
Overall Dimensions: Height: 1.75 inches (44 mm) Width: 19.0 inches (483 mm) Depth: 10.5 inches (267 mm) Weight: 8 lbs (3.63 kg)	
Phantom Power: +48VDC (7mA/input)	

TESIRAFORTÉ DAN AI BACK PANEL

