DATA SHEET
TesiraXEL™ 1200.1
4-CHANNEL, 1200W AMPLIFIER (SINGLE ASYMMETRIC BANK)

TesiraXEL™ 1200.1 is an AVB/TSN enabled, digital networked, four-channel amplifier. The 1200.1 delivers extraordinary flexibility — from power distribution, to selectable speaker impedance, to connectivity options, it's an ideal choice. The 1200.1 leverages a unique power distribution architecture allowing users to distribute 1-100% of available power to any channel. The TesiraXEL 1200.1 also supports both selectable impedance (4Ω, 8Ω, 70V, or 100V) and delay equalization per channel, allowing for maximum design flexibility. To streamline installations, the 1200.1 includes an audible locate function on the front panel to validate connected loudspeaker runs without requiring the amplifier to be configured. The TesiraXEL 1200.1 comes with a software-configurable media interface, allowing designers to choose their preferred network topology — redundancy, daisy chain, single-cable, or separate control and media are all supported. The 1200.1 is ideal for training rooms, lecture halls, performing arts venues, houses of worship or other applications where sound distribution or reinforcement is needed.

BENEFITS

- Full asymmetric loading allows power to be distributed per channel as needs dictate
- Selectable impedance (both Hi-Z and Lo-Z) per channel
- Software configurable media interface allows designers to choose their network topology (redundancy, single-cable, daisy chain, or separate control and media)
- Can audibly locate connected speakers from the front panel to validate speaker runs without requiring the amplifier to be configured

FEATURES

- 100% asymmetrical loading per channel
- Selectable impedance per channel: 4Ω, 8Ω, 70V, 100V
- Configurable media interface: support for daisy chain, network redundancy, and single cable
- Audible locate available from the front panel
- Auto standby mode
- Supports delay equalization per channel
- Supports port authentication via IEEE 802.1X
- Configurable via Tesira software
- Rack mountable (2RU)
- CE marked, UL listed, and RoHS compliant
- Covered by Biamp Systems' five-year warranty

ARCHITECTS & ENGINEERS SPECIFICATION

The digital amplifier shall be designed exclusively for use with Biamp® Tesira® systems. The digital amplifier shall provide a maximum of 1200 watts of SMPS power. The digital amplifier shall provide four software-configurable output channels on Euroblock connectors. The digital amplifier shall receive control data and digital audio over AVB via one or two RJ-45 connectors. The digital amplifier shall be configurable via Tesira design software, including selection of network topology. The digital amplifier shall support the following network topologies: redundancy, single-cable, daisy chain, and separate control and media signals. The digital amplifier shall support software-selectable impedance per channel for 4Ω, 8Ω, 70V, and 100V loudspeakers. The digital amplifier shall be equipped with an audible locate button on the front panel. The digital amplifier shall support delay equalization per channel. The digital amplifier shall support port authentication via IEEE 802.1X. The digital amplifier shall provide remote monitoring information. The digital amplifier shall be rack mountable, requiring two rack units (2U) in height. The digital amplifier shall be CE marked, UL listed and shall be compliant with the RoHS directive. Warranty shall be 5 years. The digital amplifier shall be TesiraXEL™ 1200.1.

TesiraXEL 1200.1 SPECIFICATIONS

Network Connections:	(2) Gigabit Ethernet with RJ-45 (Cat 5e and above)
Number of Output Channels:	4
Connectors:	2-pin, 0.3-inch Euroblock [up to 10 AWG]
Amplifier Topology:	Class D
Number of Power Banks[1]:	1
Maximum Rated Output[2] (4Ω, 8Ω, 70V, 100V):	
All Channels Driven:	1200W
Single Channel Driven:	1200W
THD+N (20Hz-20kHz, at rated power):	< 0.02%
Frequency Response (20Hz-20kHz):	+0/-0.5dB
Dynamic Range (20Hz-20kHz, unweighted):	> 108dB
Damping Factor (20Hz-100Hz):	> 600
Crosstalk (channel to channel, 20Hz-20kHz):	> 80dB

Cooling:	Variable speed fan
Operating Voltage:	100-240VAC 50/60Hz
Overall Dimensions:	
Height:	3.5 inches (89mm)
Width:	19 inches (483mm)
Depth:	17.4 inches (442mm)
Weight:	18 lbs (8.2 kg)
Environmental:	
Ambient Operating Temperature Range:	32-95° F (0-35° C)
Humidity:	0-95% relative humidity (non-condensing)
Altitude:	0-10,000 ft (0-3000m) MSL
Compliance:	FCC Part 15B (USA) CE Marked (Europe) UL and C-UL listed (USA and Canada) RoHS Directive (Europe)

[1] 1200W amplifier module

[2] Burst power 25ms, 400ms duration, 1 kHz sine, 12 dB crest factor

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DATA SHEET
TesiraXEL™ 1200.2
4-CHANNEL, 2400W AMPLIFIER (DUAL ASYMMETRIC BANKS)

TesiraXEL™ 1200.2 is an AVB/TSN enabled, digital networked, four-channel amplifier. The 1200.2 delivers extraordinary flexibility — from power distribution, to selectable speaker impedance, to connectivity options, it's an ideal choice. The 1200.2 is equipped with two 1200W power banks; each bank supports two channels to provide greater power density per rack unit. It leverages a unique power distribution architecture allowing users to distribute 1-100% of available power across the power bank. The TesiraXEL 1200.2 also supports both selectable impedance (4Ω, 8Ω, 70V, or 100V) and delay equalization per channel, allowing for maximum design flexibility. To streamline installations, the 1200.2 includes an audible locate function on the front panel to validate connected loudspeaker runs without requiring the amplifier to be configured. The TesiraXEL 1200.2 comes with a software-configurable media interface, allowing designers to choose their preferred network topology — redundancy, daisy chain, single-cable, or separate control and media are all supported. The 1200.2 is ideal for training rooms, lecture halls, performing arts venues, houses of worship or other applications where sound distribution or reinforcement is needed.

BENEFITS

- Full asymmetric loading per power bank allows power to be distributed as needs dictate
- Selectable impedance (both Hi-Z and Lo-Z) per channel
- Software configurable media interface allows designers to choose their network topology (redundancy, single-cable, daisy chain, or separate control and media)
- Can audibly locate connected speakers from the front panel to validate speaker runs without requiring the amplifier to be configured

FEATURES

- 100% asymmetrical loading per power bank
- Selectable impedance per channel: 4Ω, 8Ω, 70V, 100V
- Configurable media interface: support for daisy chain, network redundancy, and single cable
- Audible locate available from the front panel
- Auto standby mode
- Supports delay equalization per channel
- Supports port authentication via IEEE 802.1X
- Configurable via Tesira software
- Rack mountable (2RU)
- CE marked, UL listed, and RoHS compliant
- Covered by Biamp Systems' five-year warranty

ARCHITECTS & ENGINEERS SPECIFICATION

The digital amplifier shall be designed exclusively for use with Biamp® Tesira® systems. The digital amplifier shall provide a maximum of 2400 watts of SMPS power. The digital amplifier shall provide four software-configurable output channels on Euroblock connectors. The digital amplifier shall receive control data and digital audio over AVB via one or two RJ-45 connectors. The digital amplifier shall be configurable via Tesira design software, including selection of network topology. The digital amplifier shall support the following network topologies: redundancy, single-cable, daisy chain, and separate control and media signals. The digital amplifier shall support software-selectable impedance per channel for 4Ω, 8Ω, 70V, and 100V loudspeakers. The digital amplifier shall be equipped with an audible locate button on the front panel. The digital amplifier shall support delay equalization per channel. The digital amplifier shall support port authentication via IEEE 802.1X. The digital amplifier shall provide remote monitoring information. The digital amplifier shall be rack mountable, requiring two rack units (2U) in height. The digital amplifier shall be CE marked, UL listed and shall be compliant with the RoHS directive. Warranty shall be 5 years. The digital amplifier shall be TesiraXEL™ 1200.2.

TesiraXEL 1200.2 SPECIFICATIONS

Network Connections:	(2) Gigabit Ethernet with RJ-45 (Cat 5e and above)
Number of Output Channels:	4
Connectors:	2-pin, 0.3-inch Euroblock [up to 10 AWG]
Amplifier Topology:	Class D
Number of Power Banks[1]:	2
Maximum Rated Output[2] (4Ω, 8Ω, 70V, 100V):	
All Channels Driven:	2400W
Single Channel Driven:	1200W
THD+N (20Hz-20kHz, at rated power):	< 0.02%
Frequency Response (20Hz-20kHz):	+0/-0.5dB
Dynamic Range (20Hz-20kHz, unweighted):	> 108dB
Damping Factor (20Hz-100Hz):	> 600
Crosstalk (channel to channel, 20Hz-20kHz):	> 80dB

Cooling:	Variable speed fan
Operating Voltage:	100-240VAC 50/60Hz
Overall Dimensions:	
Height:	3.5 inches (89mm)
Width:	19 inches (483mm)
Depth:	17.4 inches (442mm)
Weight:	19 lbs (8.6 kg)
Environmental:	
Ambient Operating Temperature Range:	32-95° F (0-35° C)
Humidity:	0-95% relative humidity (non-condensing)
Altitude:	0-10,000 ft (0-3000m) MSL
Compliance:	
	FCC Part 15B (USA)
	CE Marked (Europe)
	UL and C-UL listed (USA and Canada)
	RoHS Directive (Europe)

[1] 1200W amplifier module

[2] Burst power 25ms, 400ms duration, 1 kHz sine, 12 dB crest factor

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