

## DLC-1500.4d Loudspeaker Controller (4-ch with Dante & AES67)



### KEY FEATURES:

- 2U 4-Channel Amplified Loudspeaker Controller with Dante & AES67
- 2x 1,500W (BTL) @ 100V, 2x 1,200W (BTL) @ 70V
- 4x 400W (SE) and 2x 1,500W (BTL) @ 8-ohms
- 4x 800W (SE) and 2x 1,500W (BTL) @ 4-ohms
- 4x 800W (SE) @ 2-ohms
- Drives up to 16 Theory 16-ohm Speakers at Low-Z or up to 400 in 70V/100V Operation

### OVERVIEW:

The DLC-1500.4d delivers a massive 3,000W in a 16 pound chassis. Capable of delivering 1,500W into 4 or 8-ohms from any channel pair, or 800W into 2 or 4-ohms all channels driven, this 16lb., 2U loudspeaker controller packs new levels of power into minimal rack space. If that weren't enough, the DLC-1500.4d can drive 70V/100V hi-Z loudspeakers direct - no internal transformer is required.

The DLC-1500.4d is equipped with Dante / AES67 audio-over-IP digital I/O making setting up and deploying even complex distributed audio systems painless and bullet-proof. No bulky analog audio cables are required.

The DLC-1500.4d can drive up to 16 Theory 16-ohm loudspeakers in Lo-Z mode, or more than 300 (!) in Hi-Z mode. You read that right, 300+ Theory speakers at 7.5W each.

Theory DLC loudspeaker controllers can be configured via the on-board web interface accessible via wired Ethernet, or via the on-board WiFi access point and includes parametric EQ, delay, gain, and limiter DSP objects to make system optimization easy.

Rack ears are included. Full API and control modules for AMX, Control4, Crestron, Crestron Home, ELAN, Q-SYS and RTI are available.

The performance and versatility of the DLC-1500.4d must be experienced to be believed. Book a visit to the Theory Southern California Experience Center today to learn just how valuable this little loudspeaker controller will be in your system design toolbox.

### APPLICATIONS:

#### Background and Foreground Business Audio Systems

Bars and sports bars, restaurants, retail stores, hotels, houses of worship, corporate conference, screening rooms, lobbies, casinos, etc.

#### Distributed Audio

Residential and commercial distributed audio systems, airports, higher-ed campuses, and education facilities.

#### High Output Surround Sound Systems

Residential and commercial media rooms, gaming systems, executive boardrooms, etc.

#### Music and Video Post Production

Surround and Dolby Atmos mix rooms where maximum output in compact depth is required, music post production.

#### Two-channel Music Systems

Premium residential and corporate stereo music systems, music and performance higher education.

## DLC-1500.4d Specifications

---

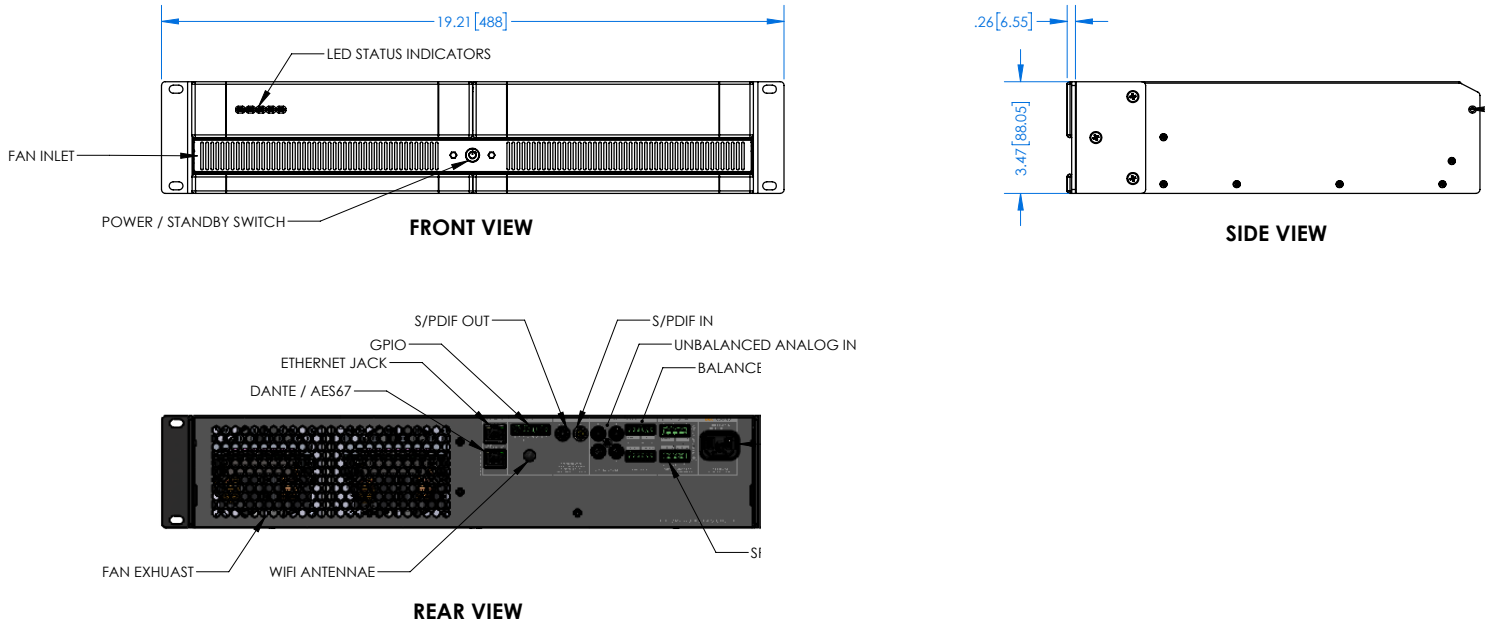
<b>Description:</b>	4-Channel Amplified Loudspeaker Controller with Dante & AES67 2U Chassis IP Control via Ethernet or Built-in WiFi Access Point Power Sharing Between Neighboring Channels
<b>Operation:</b>	LoZ and HiZ (70V/100V) Operation
<b>Inputs:</b>	4 x Balanced Analog Audio 4 x RCA Unbalanced Analog Audio 1 x S/PDIF Digital Audio (Stereo, Coax) 4 x Dante / AES67 Digital Audio
<b>Outputs:</b>	4 x Speaker Outputs S/PDIF Digital Audio (Loop) 4 x Dante / AES67 Digital Audio
<b>Trigger:</b>	+12VDC
<b>Audio Operation:</b>	48kHz/24-bit
<b>On-Board DSP:</b>	48kHz/32-bit
<b>DSP Features:</b>	Loudspeaker Processing For All Theory Models, plus: Input Matrix Mixer 5 Parametric Input EQ Filters Input Trim Stereo/Mono Inputs and Zones Signal Routing Including Priority Automatic Routing Audio Ducking 20 Parametric Output EQ Filters Crossovers Gain Delay Polarity Peak and RMS Limiters
<b>Frequency Response:</b>	20Hz-20kHz, +/-0.25dB
<b>Power Output:</b>	2x 1,500W (BTL) @100V 2x 1,200W (BTL) @ 70V 4x 400W (SE) and 2x 1,500W (BTL) @ 8-ohms 4x 800W (SE) and 2x 1,500W (BTL) @ 4-ohms 4x 800W (SE) @ 2-ohms
<b>Voltage Gain:</b>	Variable
<b>Input Sensitivity (selectable):</b>	+14dBu +4dBu -10dBV (Unbalanced RCA) Microphone
<b>Power Requirements:</b>	Standby: <1W (1/8 power, all ch. driven): 70W

## DLC-1500.4d Specifications (Continued)

---

<b>Idle Noise (A-Wt):</b> .....	-78dBV
<b>Signal to Noise Ratio:</b> .....	>106dB
<b>Distortion (1kHz, 1dB below max output):</b> ..	<0.02%
<b>AC Operation:</b> .....	100V-240VAC, 50-60Hz
<b>Terminals:</b> .....	Euroblock Connector with Parallel Output
<b>Outdoor Capability:</b> .....	Indoor Use Only
<b>Mounting Points:</b> .....	Rack Mount Ears Included
<b>Finish:</b> .....	Matte Black
<b>Dimensions:</b> .....	3.47" H x 19.21" W x 12.6" D (89mm H x 483mm W x 320mm D)
<b>Net Weight:</b> .....	16.8 lbs. (7.62 kg)
<b>Included Accessories:</b> .....	Rack Ears

## DLC-1500.4d Dimensions



## DLC-1500.4d Architectural Specifications

The power amplifier, being of four channels, shall deliver a minimum power of 800 watts RMS per channel into 4, 8 or 16 ohm "low-z" loads and 800 watts RMS per channel in 70V/100V, "hi-z" systems. The amplifier shall include on-board independent digital signal processing (DSP) for each audio channel. The amplifier shall be immune to damage from shorted, open, or mismatched loads and shall include independent thermal protection. The amplifier shall have user-selectable variable input sensitivity settings for microphone, -10dBV, +4dBu and +14dBu input signal levels. Frequency response shall be 20Hz to 20kHz +/- 0.25dB. Idle noise shall be no more than -78dBV with signal-to-noise ratio of at least 106dB. THD at 1dB below maximum output shall be less than 0.02%. The amplifier shall have rear panel audio inputs of balanced analog type via multi-pin Euro block connectors, unbalanced analog type via RCA connectors, of the S/PDIF digital type via RCA coaxial connectors, and Dante / AES67 Digital Audio. The amplifier hardware and on-board DSP shall be programmed and controlled using embedded web interface over TCP/IP via back-panel Ethernet port or wirelessly via on-board WiFi access point. The unit shall operate on any AC Mains voltage between 100VAC and 240VAC at 50Hz or 60Hz. The unit shall be two (2) rack spaces high, one (1) rack space wide, and no more than 12.6" deep. The amplifier shall be internally fan-cooled. The weight of the unit shall be 16.8 lbs. (7.62kg). The amplifier shall be the model DLC-1500.4d manufactured by Theory Audio Design, LLC.

© 2024 THEORY AUDIO DESIGN, LLC. All rights reserved.

Theory Audio Design, LLC dba Theory Professional routinely engages in programs to improve, modify and revise its products without notice or obligation.

### THEORY AUDIO DESIGN, LLC dba THEORY PROFESSIONAL

25741 Atlantic Ocean Drive, Suite B  
Lake Forest, CA 92630

Tel: 949-245-0505  
www.theoryaudiodesign.com