

# DLC SERIES

## DISTRIBUTION LOUDSPEAKER CONTROLLERS

The Theory DLC models are a series of multi-purpose installation amplified loudspeaker controllers. All DLC models have built in Wireless-Access-Point (WAP) for rapid connection and configuration via WiFi.



- ✓ **Power Share** – Support of power sharing up to 250W
- ✓ **Dante Option** – Industry standard audio over IP
- ✓ **DSP** – full matrix DSP embedded and controlled via TCP/IP
- ✓ **Certified** – Safety and EMC. Compliant to ErP & EnergySTAR\*
- ✓ **Master/Slave Functionality** – S/PDIF linking to multiple amps
- ✓ **Versatile Outputs** – Optimal hybrid of Low and High Z performance

### APPLICATIONS

**Residences** Entertainment in the home has never been more desired and the DLC loudspeaker controllers make deploying whole-house audio simple. Up to four 16-ohm Theory in-ceiling loudspeakers can be connected to each channel in Lo-Z mode allowing for up to 16 speakers to be driven from a half-rack space! For home cinema and surround sound systems, the 4-channel DLC models are perfect for 3.1 systems and up.

**Bars & Cafés** The combination of small size and high power per channel flexibility makes DLC loudspeaker controllers especially well suited for installing in bars, cafés, and restaurants. DLC controllers make setting up systems easy with 2-4 channels in either Hi-Z or Low-Z and power to cover any room size.

**Restaurants** Restaurants use sound as part of the dining experience, and many have dynamic needs for the sound level. Some have bar areas where they need more sound pressure, and then have cosy eating areas where they need less. DLC is ideal – as it delivers the power required, with 2-4 channels in Hi-Z or Low-Z to cover any room size.

**Retail Stores** Retail stores have background audio (or sound branding) where music is matched to the profile of store: a furniture store with cool background music, a stylish clothes boutique at medium playback levels, or a trendy juice bar with

a need for more power! DLC fits all these needs as the required power can be utilized where needed – with both Hi-Z and Low-Z simultaneously.

**Fitness Centers** Fitness locations demand excellent sound with great system flexibility. Background tracks play in a gym & workout area, soft sounds in yoga classes – then heart racing, high power is needed in the spinning & CrossFit classes!

**Hotels & Education Sites** For hotels and education sites that have auditoriums, theaters, large dining spaces, and multiple large meeting rooms - complete flexibility of available power is needed.

**Corporate** The corporate space has many different applications – open office spaces, sound for board & conference rooms, meeting areas of any size – plus warehouses, cafeteria & break areas. DLC loudspeaker controllers are an ideal choice as one amplifier can cover all of these needs.

**House of Worship** House of Worship needs reliable, high-quality amplification of voice, and at the same time the amplifier should cover a large distribution area with many specialized speakers. DLC is perfect for house of worship sites by providing high quality of amplification at medium power levels, delivering superior speech intelligibility throughout the venue.

## SPECIFICATIONS

Model	DLC-250.4	DLC-250.4d (Dante)
Channels	4 Lo-Z / 2 Hi-Z	4 Lo-Z / 2 Hi-Z
Output Power @ 4Ω/8Ω/70V/100V* All Channels Driven	125W Lo-Z / 250W Hi-Z	125W Lo-Z / 250W Hi-Z
Output power @ 4Ω/8Ω/70V/100V* Single channel driven	250W**	250W**
Output Power @ 16Ω*** All Channels Driven	125W***	125W***
Power Consumption	150W	150W
Dante Network Audio	No	Yes
Dimensions	44.5 x 220 x 296 mm (1.75 x 8.66 x 11.65 in)	44.5 x 220 x 296 mm (1.75 x 8.66 x 11.65 in)
Weight	2.8kg (6.2 lbs)	2.8kg (6.2 lbs)
Output Circuitry	UMAC™ Class D - full bandwidth PWM modulator with ultra-low distortion	
Output Voltage	70Vp / 140Vpp (unloaded) // Bridged 140Vp / 280 Vpp (unloaded)	
Signal To Noise-Ratio	>106dB (A-weighted, 20Hz-20kHz, 8Ω load)	
THD+N (typical)	< 0.05% (20Hz-20kHz, 8Ω load, 3dB below rated power)	
Frequency Response	20Hz-20kHz (+0/-0.25dB (8Ω load, 3dB below rated power)	
Protection Circuits	Short circuit, DC, Undervoltage, Temperature and Overload protection	
Power Supply	UREC™ universal mains switch mode power supply with Power Factor Correction (PFC) and standby converter	
Operating Temperature	0-40°C (32°-104°F)	
Operating Voltage/Frequency	Universal Mains, 100V-240V, 50Hz-60Hz	
Standby Consumption	<0.5W	
Accessories	Rack mount kit (optional) Wall/Desktop mount kit (optional)	
Power Ratings	1% THD @ 120Vac and 230Vac	

\*100V line mode operates at -1 dB (approx. 90V)

\*\* Power sharing operational

\*\*\* 16Ω power output is limited by maximum voltage swing available in Lo-Z mode.