CDA-4D
DSP Amplifier

The CDA-4D is a compact distribution amplifier, designed to power current and future Bowers & Wilkins Custom Installation loudspeakers. Embedded DSP allows optimisation of a wide range of products and dynamic EQ for Bowers & Wilkins subwoofers. It boasts four channels of 125 watts each, and its full-rack-width 1U design delivers high-performance from minimum rack space.

Impressively smart

To ensure the CDA-4D delivers in the modern custom installation system, it is equipped with Digital Signal Processing (DSP). This allows it to be used in wide variety of situations, provides control over IP and configuration, and for providing dynamic EQ for Bowers & Wilkins subwoofers.

Compact powerhouse

CDA-4D's 1U size means that it takes up the minimum of rack real estate. But with four channels of 125 watts of Class D amplification on hand it can deliver power when required. Plus, as it's bridgeable this can be configured to 2 x 250 watts, or a 2.1 setup (2 x 125 watts and 1 x 250 watts), where needed.

Flexible

Whether you are looking to upgrade an in-situ installation or planning a new one, the CDA-4D DSP amplifier is ideal. It can drive two zones, and works with a wide variety of Bowers & Wilkins products, both current and future.

CDA-4D

Audio Specifications

Load impedance range:	>3Ω per channel (>6Ω in bridge mode)
Output Power per channel, non-clipped:	60W into 8Ω 125W into 4Ω
Output Power bridge mode, non-clipped:	250W into 8Ω
Output Power total, all channels:	500W short term >125W continuous
DC offset voltage:	<50mV
Frequency Response (-3dB):	<10Hz to >30kHz, any load impedance
Frequency response accuracy 20Hz-20kHz:	+/-1dB
Dynamic range:	>85dB A-Weighted
THD+N (1kHz, 500W, 4Ω):	less than 1%
Voltage Gain:	15dB to 39dB, adjustable
Input impedance:	10kΩ
Maximum input voltage:	4 Vrms
Signal sense threshold:	2.5mV (independent of Gain setting)
Wake-up time:	<0.2s (If other zones active) <2s (From all zones inactive)
Turn-off time:	15 minutes from last signal detected
12V trigger input threshold:	Typically 3V (recommended input is 5-15V) (TBC)

Controls & Indicators

Front panel:	1 x Power LED (unit active – White, Fault – Red) 1 x Network status LEDs (Signal present – White, Fault – Red) 2 x Zone status LEDs (Signal present – White, Fault – Red) 1 x Reset button

Connectors

Input:	2 x RCA (pair) Phono socket, Analogue line in 2 x RCA Phono socket, Digital line in 1 x Ethernet
Output:	2 x 5.08mm Pitch 4-way Phoenix Combicon style
12V trigger control:	1 x 3.5mm jack - 12V trigger IN 1 x 3.5mm jack - 12V trigger OUT (Maximum 100mA pass-through)

Power

Power consumption:	<0.5W Standby, WoL disabled <2W Standby, WoL enabled 300W maximum average (TBC) 1,000W peak (TBC)
AC supply:	100-240V 50/60Hz
AC inlet:	IEC C14, switched

Thermal

Thermal dissipation:	TBC BTU/hr (standby) TBC BTU/hr (Idle) TBC BTU/hr (max)

Dimensions

Height:	42.5mm (1.7in) 1U (57.5mm (2.3in) plus feet)
Width:	436mm (17.2in)
Depth:	300mm (11.8in)
Net weight:	4.0kg (8.8lb)
Finish:	Black