C3

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2 Channel DSP Amplifier, 2500W

- ■ 2 x 1250W@2 Ohm or 1 x 2500W@4 Ohm
- ■ 2 Ohm and 70V / 100V line capability
- ■ 2-input, 2-output, 96 kHz DSP with real-time monitoring
- ■ Extremely rugged with abuse logging

- ■ C-Net network control and monitoring of amplifiers and loudspeaker loads
- ■ Factory presets for Coda Audio G-Series, D-Series, CUE monitors, LA4 and CoRAY systems
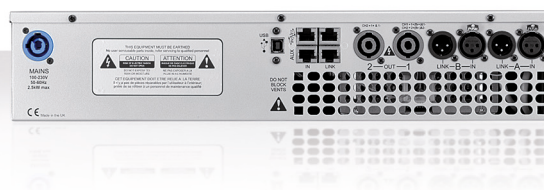
The Coda Audio C3 is a 19"/2U high performance, cost effective 2 channel power amplifier integrating light-weight power supplies, high power class D amplifiers and USB or network controlled 24 bit 96kHz extremely powerful state-of-the-art SHARC based DSP. The C-Net network allows remote control of DSP parameter such as delays, EQs, groups etc, as well as completes monitoring of amplifier conditions and loudspeaker loads.

C3 also has the capability to recall up to four different sets of settings by the means of rear panel contact closure inputs.
This can be particularly important in voice evacuation applications where, for example, it may be required to mute the current source of audio, switch to an alternate input carrying an evacuation message and broadcast it with different level and EQ settings. Each pair of C3 channels can automatically do this either independently or collectively.
Factory presets for Coda Audio G-Series, D-Series, CUE monitors, LA4 and CoRAY systems provide optimal power solution for wide range of fixed installation applications.

ACCESSORIES
Airflow filtering kit
Rear rack support kit

TECHNICAL SPECIFICATIONS C5

AMPLIFIERS	
Type:	High efficiency class D
Number of channels:	Two
Output power:	(RMS program, 20Hz-20kHz all channels driven)
per channel:	2x 1,250W in to 2 Ohms
	2x 800W in to 4 Ohms
	2x 450W in to 8 Ohms
per bridged pair:	1x 2,500W in to 4 Ohms
	1x 1,600W in to 8 Ohms
	1x 900W in to 16 Ohms
Slew rate:	>80V/us
Damping factor:	120 ref 8 Ohms
Efficiency:	>90% typical

AUDIO SPECIFICATIONS	
Input impedance:	10k balanced
Max Input level:	+20dBu
Frequency Response:	20Hz - 20kHz+/-0.5dB @ 4 Ohm load
Output noise:	-106dB A weighted Ref max output, 22kHz BW
Distortion	<0.05% (1kHz, -3dB output. 22kHz BW)

PROTECTION SYSTEMS	
Output over current:	Initially gain reduced to maintain control, extreme or persistent over current causes shutdown
Over temperature:	limiters applied, persistent over temperature causes shutdown
Mains Brownout:	Automatic protection & recovery
Switch on surge:	Soft-start current inrush limiting
DC on output:	Immediate shutdown, power cycle to recover

C3

TECHNICAL SPECIFICATIONS C5

THERMAL
Two variable speed fans

INDICATORS & CONTROLS

Indicators per channel:	Sig, Limit -6dB, Limit
Indicators per channel pair:	Power, Protect, Bridge, Network, User DSP active
Front panel controls:	
Per channel pair:	User DSP Defeat - can be disabled with C-Net
	Power switch
Rear panel:	
Per channel pair:	Contact closure inputs and Shutdown input (Aux)
Monitoring facilities:	Input signal level, Output signal level
	Output current level
	Temperature
	Limiter operation
	Protection system operation
	Driver impedance

POWER SUPPLIES

Type:	High current, high freq. switch-mode
Number:	One / Two, fully independent
Efficiency:	>90% typical
Input voltage:	115v / 230v nominal +/- 10%
* for 100v operation output figures please see separate specifications	
Input voltage selection:	Automatic
Mains frequency range:	45 - 65Hz
Other features:	Automatic soft-start
	Automatic brownout recovery
	Remote shutdown
	Automatic over voltage protection

TECHNICAL SPECIFICATIONS C5

CONNECTIONS

Mains (per C3):	Neutrik „Powercon"
Audio input (per channel):	3 pin female XLR
Audio link (per channel):	3 pin male XLR
Output (per channel):	Neutrik NL4 „Speakon"
USB:	Type B (peripheral type)
Network (input & link):	2x RJ45 socket
Auxiliary (input & link):	2x RJ45 socket

Recommended minimum operating voltage	
230V range	155V
115V range	80V
Note that the range is automatically selected.	

PHYSICAL

Height:	2RU, 88mm
Width:	19", 482mm (front panel)
	16.8", 427mm (rear chassis)
Depth:	14", 360mm (behind rack)
	1.4", 35mm (forward of rack)
Weight:	18 pounds, 8 kg
Operating temperature range:	0 to +40°C
Relative humidity range:	0 to 80% (non-condensing)