

C5



C5

4-channel DSP amplifier, 5000 W

- Integrated DSP, network and amplifier solution
- 4x 1250W@2 Ohm or 2x 2500W@4 Ohm
- 2 Ohm and 70 V / 100 V Line Capability
- 4 –input, 4 – 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 C5 is a 19"/2U high performance, cost effective four channel power amplifier integrating light-weight power supplies, high power class D amplifiers and USB or network controlled 24 bit 96 kHz 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 complete monitoring of amplifier conditions and loudspeaker loads.

The C5 also has the capability to recall up to four different sets of settings by the means of rear panel contact closure inputs.

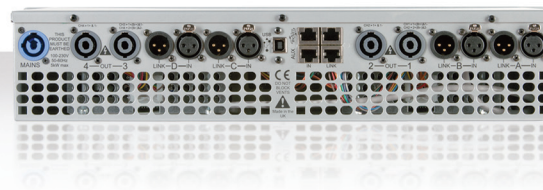
This can be particularly important in voice evacuation applications where, for example, it may be required to mute the current source of audio, switch to an alternate input carrying an evacuation message and broadcast it with different level and EQ settings. Each pair of C5 channels can automatically 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

- Rear rack support kit
- C-Net Interface

TECHNICAL SPECIFICATIONS C5	
AMPLIFIERS	
Type:	High efficiency class D
Number of channels:	Four
Output power 4 channels (RMS program, 20Hz-20kHz all channels driven):	4 x 1250W in to 2 Ohms 4 x 800W in to 4 Ohms 4 x 450W in to 8 Ohms
Output power 2 bridged channels (RMS program, 20Hz-20kHz all channels driven) per bridged pair:	2 x 2500W in to 4 Ohms 2 x 1600W in to 8 Ohms 2 x 900W in to 16 Ohms
Output power 3 channels (RMS program, 20Hz-20kHz all channels driven):	2 x 1250W@2 Ohms + 2500W@4 Ohms 2 x 800W@4 Ohms + 2500W@4 Ohms 2 x 450W@8 Ohms + 1250W@8 Ohms
Slew rate:	>80V/us
Damping factor:	120 ref 8 Ohms
Efficiency:	>90% typical
DSP	
Sampling rate:	96 kHz
AD Convertors:	Burr-Brown
DA Convertors:	Wolfson
Processor:	Sharc
Remote network:	C-Net

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TECHNICAL SPECIFICATIONS C5

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, 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

THERMAL

One variable speed fan per pair of channels and additionally one variable speed fan per unit
Airflow is from the rear to the front

INDICATORS & CONTROLS

Per channel:	Sig, Limit -6dB, Limit
Per channel pair:	Power, Protect, Bridge, Network, User DSP active
Controls per channel pair:	
Front panel:	User DSP defeat (can be disabled with C-Net) Power switch
Rear panel:	Two contact closure inputs, shutdown input
Monitoring facilities:	Input signal level, output signal level Output current level, temperature, limiter operation Protection system operation, driver impedance

TECHNICAL SPECIFICATIONS C5

POWER SUPPLIES

Type:	High current, high freq. switchmode
Number:	Two, fully independent
Efficiency:	>90% typical
Input voltage:	100V* / 115V / 230V nominal +/- 10% (*for 100V operation 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

CONNECTIONS

Mains:	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

PHYSICAL

Height:	2RU, 88 mm
Width:	19", 482 mm (front panel) 16.8", 427 mm (rear chassis)
Depth:	14", 360 mm (behind rack) 1.4", 35 mm (forward of rack)
Weight:	9 kg (20lbs)
Operating temperature range:	0 to +40°C
Relative humidity range:	0 to 80% (non-condensing)