



## 16-Channel Amplifier

CS-amp10-1640



The Clare amp.1640 packs 16-channels (8 zones) of exceptional Class D amplification into a cool-running, 1 U rack-mounted chassis. Using technologies designed by ICEpower, a wholly owned subsidiary of Bang & Olufsen, the amp.1640 uses an advanced switched-mode power supply to drive 16 channels, delivering 40 watts into 8  $\Omega$ . The amp.1640 is stable to 4  $\Omega$ . Compact and efficient, Clare's amp.1640 addresses common installation headaches with a run-cool design in a compact form factor.

### Audio Stages

The amp.1640 incorporates eight matched 2-channel amplifier modules in a compact 1 U form factor, which combine to deliver 8 zones of sharp, clear audio performance. Use of two independent feedback loops allows the amp.1640 to provide lower distortion, less noise on output, a frequency response less dependent on load and lower output impedance than other class D amps. The result is a natural, relaxed, and dynamic sound with excellent stereo perspective and a tightly controlled precise bass that will do justice to every source and recording in your customer's collection.

- ICEpower Class D technology
- >90% efficient design
- 16 x 40 WPC into 8  $\Omega$
- Global bus with loop through
- System trigger
- Input channel level adjustments
- Front panel status indication: blue = on, orange = standby
- 1 rack space
- Includes rack ears

### Technical Specifications

#### Audio

Inputs	16 Gold RCA jacks with adjustable gain
Input impedance	Single Ended 10k $\Omega$
Output power	16 x 40 W into 8 $\Omega$
Peak output power (bridge mode, single output)	160 W
Ideal Output Load	4 $\Omega$ stereo/ 6- 8 $\Omega$ bridged mono
Frequency response	10 hz-20 khz ( 4 $\Omega$ , 8 $\Omega$ , Open load)
THD+N distortion ( 4 $\Omega$ SE, f = 100 Hz, Po =1W)	±0.4 dB
IMD Intermodulation (CCIF) (f=18.5 kHz, 1 kHz Po10W)	0.003%
Dynamic Range (A-weighted, 160W, 8 $\Omega$ )	0.0009%
	115 dB

#### Features

Trigger control	12 VDC on 3.5 mm mono jack
Bridgeable	Yes, to 160 WPC
Global input	Yes
Input level adjustments	Yes

#### General

Ambient temperature	32 to 95°F (0 to 35°C)
Fan Noise	Variable Speed, 28 db(A) worst case
Power	120 V - 240 VAC, 50/60Hz
Standby Power	<0.5 W
Dimensions (WxHxD)	17 x 1.75 x 12.25 in. (432 x 45 x 292 mm)
Weight	8.6 lbs



By making home technology simple, Clare provides exclusive benefits to integrators, builders, and homeowners. We offer innovative home automation solutions, Class D amplifiers, media distribution, controllable lighting, and IP CCTV components. For more information, visit [clarecontrols.com](http://clarecontrols.com).