C2N-VEQ4

4-Channel Volume/EQ Control Module

The C2N-VEQ4 provides a very simple solution for adding professional

quality volume control, equalization, and signal routing to any Crestron

2-Series control system. In a compact half-space rack-mountable chassis,

the C2N-VEQ4 delivers four channels of digital volume and tone control,

four 12-band graphic/parametric equalizers, and a fully-adjustable 4x4

matrix mixer. Dual DSPs and 24-bit 96 kHz A/D and D/A converters attain

high-end audio performance perfectly suited for a multitude of applications in boardrooms, auditoriums, night clubs, and homes

The C2N-VEQ4 is controllable through any Crestron touchpanel, keypad,

handheld remote, or **e-Control®2** user interface, with true feedback

provided for every parameter. Mixer and EQ settings are easily configured

and adjusted through Crestron's Media Tools software (part of Crestron

Toolbox) and saved in presets stored onboard the C2N-VEQ4 module.

Volume/Tone Control

In its most basic configuration, the C2N-VEQ4 provides four individual

audio channels which may be operated independently or linked for stereo

operation. Each channel includes adjustments for volume, bass, treble, and

mute, with definable ramp times and scaling for fully customized operation. Protective relays on each output are included to prevent

"thumps" during power-up and provide 100dB attenuation for dead-silent



eliminating the need for additional outboard processors. Five selectable

modes of audio equalization are available per output channel, providing up

to 12 bands of fully parametric EQ or varying combinations of parametric

and graphic EQ including a filter set optimized for speech applications.

Five parametric EQ presets and ten graphic EQ "trim presets" may be stored

onboard the C2N-VEQ4, allowing for save and recall of different EQ curves

to account for changing room acoustics, audio material, or listener

preference.

The C2N-VEQ4 is a Cresnet slave device designed to communicate with any

2-Series control system via the Cresnet bus. The C2N-VEQ4 is also

available as the **C2VEQ-4** Y-Bus expansion card for 2-Series card frames.

SPECIFICATIONS

Audio

Features: 4x4 Matrix Mixer, 4-Channel Digital Audio Processor



C2N-VEQ4

4-Channel Volume/EQ Control Module

7-band parametric; 3-band graphic plus 9-band parametric; or

12-band

parametric

PEQ Filter Gain: ±12dB, 0.1dB steps from Media Tools; +24/-36dB,

0.1dB steps from SIMPL

PEQ Filter Bandwidth: 0.02 to 2.0 octaves (1.0 to 3.0 for shelving)

Media Tools; 0.02 to 3.5 from SIMPL

PEQ Filter Center Frequency: 25Hz to 19.9kHz from Media Tools;

5Hz to

24KHz from SIMPL

PEQ Filter Types: low pass, high pass, EQ filter (peaking/

notching),

bass shelf, and treble shelf

GEQ Filter Gain: +5/-10dB, 0.1dB steps from Media Tools; ±10dB,

0.1dB steps from SIMPL

GEQ Filter Center Frequencies: 31.5, 63, 125, 250, 500, 1k, 2k, 4k,

16k Hz (10-band); 63, 250, 1k, 4k, 10k Hz (5-band); 160, 600, 1k,

2.5k,

8k,

5k Hz (Speech Opt. 5-band); 250, 1k, 4k Hz (3-band)

Frequency Response: ±0.1dB 20Hz to 22kHz, ±0.5dB 10Hz to

30kHz

Total Harmonic Distortion (THD) + Noise: <0.008% @1kHz

S/N Ratio: >97dB balanced, >95dB unbalanced, 20Hz to 22kHz

A-weighted

Crosstalk: > -90dB 20Hz to 22kHz

Common Mode Rejection: >90dB 20Hz to 22kHz

Connectors

IN 1 - 4: (2) 5-pin 3.5mm detachable terminal blocks comprising (4)

balanced/unbalanced line-level audio inputs;

Maximum Input Level: 4 Vrms balanced, 2 Vrms unbalanced;

OUT 1 - 4: (2) 5-pin 3.5mm detachable terminal blocks comprising

balanced/unbalanced line-level audio outputs;

NET: (yellow) Indicates communication with Cresnet system

ACTIVITY 1 - 4: (red) Illuminates when a parameter is being

changed on a

given channel

SETUP (rear): (red) Used for Touch-Settable ID (TSID)

Buttons

SETUP (rear): Used for Touch-Settable ID (TSID)

Power Requirements

Cresnet Power Usage: 8 Watts (0.34 Amps @ 24 Volts DC)

Environmental

Temperature: 32° to 122°F (0° to 50°C)

Humidity: 10% to 90% RH (non-condensing)

Enclosure

Chassis: Steel, black matte powder coat finish

Faceplate: Extruded aluminum, black matte powder coat

finish with

polycarbonate label overlay

Mounting: Freestanding or 0.5U 19-inch rack-mountable

(adhesive feet

included, ST-RMK

Dimensions

Height: 1.80 in (4.57 cm);

Width: 7.07 in (17.96 cm)

Depth: 6.38 in (16.21 cm)

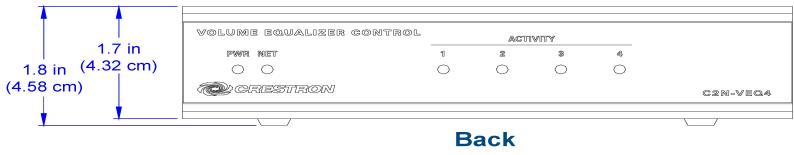
Weight

1.86 lb (0.84 kg)



4-Channel Volume/EQ Control Module

Front



CRESTRON ELECTRONICS INC., ROCKLEIGH, NJ 07647 USA 6.94 in (17.63 cm)

