FEATURES

- 2 x 12G / 3G HD / SD SDI Inputs With Integrated 16 Channel De-embedder
- Dante, or ST2110-30/AES67 network audio support
- 1 x SFP slot for 12G/6G/3G-HD/SDI Video SFP or 1GbE
- 8 balanced analog input channels, DB25 TASCAM compatible connector
- Reclocked SDI Output
- HDMI Monitor Output
- High Power Class D Stereo Audio Amplifier
- Onboard 5.1 Surround Sound Lt/Rt Downmixer
- ITU1770-3 Loudness Level Display, With Full 16 Channel Monitoring Display
- Redundant Power Supply Option
- Headphone, Analog, and power for Bluetooth Audio Outputs
- Easy Audio Source and Mode Selection
- Ethernet Connection to Web GUI, Dashboard, and REST API Control System For Monitoring, Control and Software Upgrades
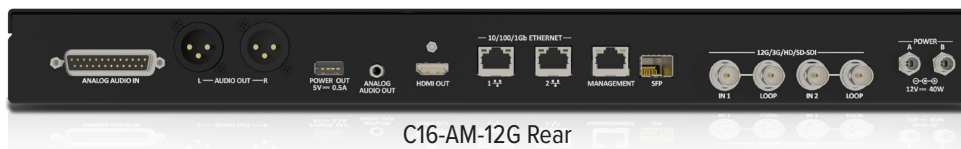
- 3-year Transferable Warranty

APPLICATIONS

- Broadcast
- Mobile Production Trucks
- Master Control/CER

C16-AM-12G Front

C16-AM-12G Rear

The CRESCENDO C16-AM-12G is a compact and lightweight 1 RU 16 Channel SDI embedded audio monitoring system that provides visual and aural monitoring of all 16 channels of audio from 12G/3G-HD/SD-SDI signal. Optional hardware upgrades include Dante or ST2110-30/AES67 network audio support

Two LCD color displays on the front panel display the audio levels on 16 bar graph VU/PPM meters and simultaneously provide ITU1770-3 loudness measurements. Additionally SDI signal status, group audio prescence and a reset timer for the LKFS meter are also visable on the display.

With simplicity in mind the C16-AM-12G has been designed with an intuitive user interface to allow for easy access to the signals you need to monitor. Twelve illuminated pushbuttons provide intuitve audio channel source selection and L/R Solo, SUM, and Lt/Rt Downmix modes directly from the front panel.

A military spec rotary shaft encoder is used to provide volume control with a unique push to mute speaker function. Also located on the front panel is a 1/4" jack

for use when headphones are required. The C16-AM-12G internal speakers are muted once a headset has been plugged in.

The rear panel allows for two 12G/3G/HD-SDI inputs and provides two reclocked SDI outputs. Optional SFP Fiber in. Two balanced stereo analog XLR audio outputs can be used to drive a set of studio grade powered speakers, and a 3.5mm stereo jack and 500mA USB port to power a wireless bluetooth adapter are also provided.

Three RJ45 connectors provides ethernet connections as well as 1gb network SFP support to connect the C16-AM-12G to the web GUI, openGear Dashboard software, or REST API to allow access to loudness measurement settings, software updates, and remote monitoring.

The C16-AM-12G is powered by an external power supply included with the unit. A secondary power supply connector is provided for those applications where an optional redundant power supply may be desired.

SUPPORTED SIGNALS

2 x 12G/3G/HD-SDI — w / Loop Out
Dante or ST2110-30 — Dual NICs
8 Balanced Analog
Optional SFP Fiber In

C16-AM-12G/3G/HD-SDI 16 Ch Embedded

HDMI Monitor Out
3.5 mm TRS Out
USB 5v Out
Variable Analog Out

Amplified Speakers

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TECHNICAL SPECIFICATIONS

Dimensions (W"xH"xD")	1RU in standard 19", 22cm depth
Weight	- lbs. (Approximate)
Power	60W, 100 to 240 VAC ± 10%, 50-60 Hz
Display Type / Resolution	2 x 2" LCD Transflective 320x240px display, 160° viewing angle
Direct input	8 channel pair illuminated buttons 4 mixing mode illuminated buttons Menu navigation knob Volume knob (press to mute) L/R Balance knob (press to center)
Mixing modes	Left only Right only LtRt Sum
Audio Channels	Up to 16
Hum and Noise	-
Peak Acoustic Output	-
Video feedback	HDMI 2.0 output, Type A, feedback of selected BNC1/BNC2/SFP SDI input
Audio Input interfaces	2 x BNC input (HD/3G/6G/12G SDI) with BNC loop outs 1 x SFP slot for HD/3G/6G/12G Video SFP or 1GbE 8 balanced analog input channels, DB25 TASCAM compatible connector, 24dBu
Network	3 x RJ45 for management and network audio, 1GbE network SFP support
Remote control	Web GUI Dashboard REST API
Internal Speakers Configuration	2 x Stereo speakers (2W rated, 4W maximum, 220Hz-20kHz) 1 x LFE central speaker (limited to max 5W output, 75Hz-16kHz) Speaker crossover at 275Hz
External outputs	2x balanced XLR (24dBu) for external speakers Stereo headphone jack on front panel 3.5mm stereo jack + 500mA USB power for wireless bluetooth adapter on back panel
Optional hardware upgrades	Dante network audio support ST2110-30/AES67 network audio support

ORDERING INFORMATION

Part #	DESCRIPTION
C16-AM-12G	12G-SDI 16 Channel Embedded Audio Monitor with Dante or 2110-30 Options. 1 RU. Includes Power Supply.
C16-PSU	Redundant Power Supply

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