

Omnia.9 not only lives up to the famous Omnia legacy

In terms of audio punch, power and clarity, but it is a unit which consolidates—for the first time-- many key applications which previously necessitated the use of multiple devices. Plus, exclusive source material distortion correction and loudness boosting.

For the first time

There will be no need to compromise a service or a set of services to inferior audio processing and management due to space and/or budget limitations. So, let's take a look. As you can see, Omnia.9 is jam packed with feature after feature, not available until now in a single unit



FEATURES

- Separate processing for FM and HD-1 and (optional) HD-2 and HD-3
- Revolutionary built-in, independent encoding and processing for internet streams of FM analog, Primary Digital (HD-1) and (Optional) Secondary (HD-2) and Tertiary (HD-3). Supports encoding to MP3 (Mpeg-1 Layer 3), MP2 (Mpeg-1 Layer 2), AAC, HE-AAC (including RTSP/3G for streaming to mobile phones), Ogg Vorbis, WMA and WMA Pro. RDS encoder, dynamically updateable
- Each processing core is separately fully adjustable and has selectable 4, 5, 6 or 7 bands
- Exclusive “Undo” technology: a source declipping algorithm, and program-adaptive multiband expander which removes distortion from source material. This corrects over-processed CDs, so common in today's contemporary music.
- Psychoacoustic Composite Embedder allows up to 140% audio peaks in stereo at 100% total modulation. This creates about 3dB extra treble headroom.
- HTTP push support for automation, such as dynamic RDS and streaming song titles, preset recall
- Studio Output with very low latency for talent monitoring.
- Selectable patch points for convenient auditioning of the audio signal at any point of the processing chain without affecting listeners.
- On-screen keyboard with several layouts (QWERTY, QWERTZ, AZERTY, Dvorak and ABC sequential) for easy setup and preset name typing.
- Selectable phase linear (high latency) or low latency (talent air monitoring capable) modes
- Selectable phase linear high pass filter, 15, 30 or 45 Hz
- Selectable SSB (Single Sideband) stereo encoder
- Dayparting (scheduled preset selection)
- Studio Output with very low latency for talent monitoring
- Composite pass-through (relay bypass) for your backup processor.
- Multiband downward expansion (source noise reduction), 3-stage wideband AGC with adjustable sidechain equalization
- Program-dependent multiband compression, multiband look-ahead limiting, adjustable dynamic bass clipping
- (For Digital) Two-band final look-ahead limiting.
- 7 inch front panel touch screen, full remote control, dual independent power supplies



GENERAL AUDIO SPECS

Frequency Response

+/-0.5dB 20Hz to 15kHz, 17.5kHz in extended mode

Signal-Noise Ratio

Greater than -80dBu de-emphasized, 20Hz to 15kHz

System Distortion

Less than 0.01% THD below pre-emphasis, inaudible above

Stereo Separation

65dB minimum, 20Hz to 15kHz, 70dB typical

Digital Output Level

Adjustable from -24.0dBFS to 0.0dBFS in 0.1dB increments

Stereo Baseband Output

Adjustable from -2dBu to +22dBu (0.1dB increments) into 600-Ohms, 20-Ohm output impedance

A/D Conversion

Crystal Semiconductor CS5361, 24 bit 128x over-sampled delta sigma converter with linear-phase anti-aliasing filter. Pre-ADC anti-alias filter, with high-pass filter at <10 Hz

D/A Conversion

Crystal Semiconductor CS4391, 24-bit, 128x oversampled

External Sync Input

Per AES11 Digital Audio Reference Signal (DARS), reference for digital output sample rate.

External Sync Range

32kHz to 96kHz

GENERAL SPECS

Analog I/O

Two balanced, EMI filtered XLR connectors

Stereo Generator Connections

Four 75-Ohm BNC female, two inputs, two outputs

(FM style only) AES/EBU In & External Sync

XLR-female

AES/EBU Out

Four XLR connectors for Main and Aux Digital programs (two stereo in, two stereo out)

Ethernet/Livewire

Shared RJ45 supporting 100 and 1000 BASE-T Ethernet connections

Power Requirements

100-264 VAC, 47-63Hz autosensing

Power Connector

IEC male, detachable 3-wire power cords supplied

Power Supply

Internal dual redundant, hot-swappable

Environmental

Operating: 0 to 50 degrees C

Non-operating: -20 to 70 degrees C.

North America: Designed to comply with the limits for a class A digital device pursuant to Part 15 of the FCC rules (CFR). Designed for U.S. and Canadian listing with UL.

Europe: Designed to comply with the requirements of Low Voltage Directive 73/23/EEC and EMC Directive 89/336/EEC. Designed for RoHS and WEEE compliance.

Dimensions

3RU



See OmniaAudio.com/9 for more details