DSPX FM
FM Audio Processor

OVERVIEW

The four-band and wideband AGCs, both with intelligent gating, along with a four-band, program-dependent limiter, are enabled by a processing core employing 16 DSPs. Parametric and shelf bass enhancement, along with composite clipping with pilot protection, contribute to keeping your station's sound consistently loud and artefact free. The dual processing paths make the DSPX-FM effectively two processors in one, feeding both your analogue transmitter and a digital service, such as HD Radio, DAB, DRM or an Internet stream. The FM analogue path has a multi-band distortion-controlled clipper, while the second path, tapped via analogue and AES/EBU digital output connectors, incorporates a bit rate optimized, look-ahead limiter. Proven presets, as well as intuitive local and remote interfaces help you get your DSPX-FM on air fast.

FEATURES

- Dual processing path enabled for HD and digital radio
- 16 24-bit DSP's provide over 1 GIGA-MIPS of processing
- Comprehensive BLUE LED audio metering and screen
- Digital and Analogue IO
- Wide and Multi-Band AGC'S with Intelligent Gating
- Multi-Band program dependent Limiting
- Multi-Band look ahead limiting and distortion cancelled clipping
- DSP stereo encoder with composite clipping control
- Back Panel and Rackroom (Front-Panel) RS232 Control
- Real time clock for preset scheduling
- Remote trigger port
- Full Range of User Presets with A/B Switching
- Software Upgradeable
- ITU BS.412 power limiter
- Pilot protection filter

SPECIFICATION

Analog input

Nom. input level	-12 to +12dBu
Max input level	+24dBu
Connectors	XLR floating,EMI suppressed
A/D conversion	24 bit 48 Khz 128x oversampled

Analog output

Analog output	-12 to +24dBu
Connectors	XLR floating,EMI suppressed
D/A conversion	24 bit 48 Khz 128x oversampled

Digital input (AES/EBU)

Sampling rate	32-96 KHz
Connector	XLR floating,EMI suppressed

Digital output (AES/EBU)

Sampling rate	32, 44.1, 48 KHz
Connector	XLR floating, EMI suppressed

Digital sync input (AES/EBU)

Sampling rate 32-96 KHz	32-96 KHz
Connector XLR floating,EMI suppressed	XLR floating, EMI suppressed

Stereo encoder

Output level	0 to +12dBu
Connector	BNC, floating
D/A	24 bit 768 KHz
Stereo seperation	>70dB (typ. > 75dB)
Sca input	BNC floating
Pilot output	BNC, 5V

Remote interface

RS232	2 x DB9
NET/LAN	RJ45 EMI shielded

Other

Power	85-265 VAC 50-60Hz
Size	44mm x 482mm x 200mm
Weight	1.6 Kg

Amongst the world's most popular audio processor.

Great sound, easy configuration and dual-path operation that enable processing of a single program for both analogue and digital broadcast. The DSPX-FM gives you a competitive edge-and builds listenership and revenue-by enabling you to achieve the tailored sound and loudness needed to make your station distinctive.

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