



DSPXtra-FM | Audio Processor with Ariane Leveler

DSPXtra-FM	DSPX-FM	DSPXtra-FM
DSPXtra-AM	DSPX-AM	DSPXtra-AM
DSPXtra-HD	DSPX-HD	DSPXtra-HD

OVERVIEW

When you don't want to pay the high price of many "high-end" FM processors, yet can't afford anything less than the best for your digital broadcast services, the DSPXtra-FM is your best choice. No other FM processor, at any price, has both a BW Broadcast six-band look-ahead limiter and an **integrated Ariane RMS leveller**. The DSPXtra-FM harnesses 22 DSPs to keep your station's sound consistently loud and artefact free. In addition to multi-band limiting and the Ariane leveller, the processing core includes parametric and shelf bass enhancement, along with composite clipping with pilot protection. Dual processing paths make the DSPXtra-FM effectively two processors in one, feeding both your analogue transmitter and a digital service. Proven presets, as well as intuitive local and remote interfaces help you get your DSPXtra-FM on air fast.

FEATURES

- Dual processing path enabled for simultaneous FM & Digital processing
- 22 24-bit DSP's provide over 1 GIGA-MIPS of processing
- Comprehensive BLUE LED audio metering and screen
- Digital and Analogue IO
- Ariane intelligent RMS leveller
- Multi-Band program dependent Limiting
- Multi-Band look ahead limiting and distortion cancelled clipping
- DSP stereo encoder with composite clipping control
- USB front panel interface , RS232 back panel interface
- TCP/IP Net interface
- Real time clock for preset scheduling
- Remote trigger port
- Full Range of User Presets with A/B Switching
- Security (password) Control
- Software 'FLASH' Upgradable
- ITU BS.412 power limiter
- Pilot protection filter

SPECIFICATION

ANALOG INPUT MODULE

Operative nominal level	-15 to +24dBu
AD Clipping Point	>20dBu
Connectors	XLR
A/D conversion	24 bit 48 Khz 128x oversampled
Distortion	<0.01% THD

ANALOG OUTPUT MODULE

Output Level	-12 to 24dBu
Connectors	XLR
D/A conversion	24 bit 48 Khz 128x oversampled
Distortion	<0.01% THD
Impedance Source	10 Ohm / 20 Ohm / 200 Ohm

DIGITAL INPUT MODULE

Sampling rate	32-96 KHz
Connector	XLR
Operative Nominal Level	-24.0 to 0.0 dBFS
Distortion	<0.01% THD
Format	AES/EBU

DIGITAL OUTPUT MODULE

Sampling rate	32, 44.1, 48 KHz
Connector	XLR
Operative Nominal Level	-24.0 to 0.0 dBFS
Distortion	<0.01% THD
Format	AES/EBU

DIGITAL SYNC INPUT (AES/EBU)

Sampling rate	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 separation	>70dB (typ. > 75dB)
Sca input	BNC floating
Pilot output	BNC, 5V
USB	USB B connector (front panel)

REMOTE INTERFACE

RS232	DB9 (rear panel)
Remote	DB9 opto isolated and floating
NET/LAN	RJ45 EMI shielded

Other

AC Rate	105-110VAC / 210-255 VAC, 50/60Hz
Size	44mm x 482mm x 200mm
Weight	1.6 Kg
Operating temperature	-5° to 50°C

