DSPXmini encore | AM, & FM AUDIO PROCESSOR

DSPXmini Encore DSPXtra Encore

Jump start your station's audio with the most flexible broadcast processor on the planet.

With it's flexible hardware and firmware, you can select between optimised processing for FM and AM radio.

The multi-band AGC corrects and equalises a wide range of input audio levels, while the peak limiters ensure your broadcast has tightly controlled peak levels. A stereo encoder, and RDS encoder, with sophisticated actions and triggers monitoring system complete the package.

Why you'll never regret choosing the DSPXmini encore.

A Dual-mode broadcast processor for FM and AM radio. Maximum flexability and at a great price.

Dozens of expertly created factory presets enable radio stations to sound great – right out of the box. Experts can tweak hundreds of parameters as much as they desire.

Wide ranging RMS levelling pulls up low level and tames hot signals effortlessly, ensuring a consistent sonic signature, no matter what audio you feed it.

Stereo (MPX) generation & peak limiting offer low distortion audio and compliant bandwidth through advanced anti-aliased protection technology

RDS encoder (UECP compliant) broadcasts your station ID, song and title and much more. Built in as standard!

Silence Detection and Source Switching automatically reverts to auxiliary audio sources, keeping your broadcast on air.

HTML5, FTP, Telnet, SNMP & RS232 Remote Control allows you to monitor and control your processor from anywhere in the world.

SPECIFICATION

PROCESSING

AGC	4 band, Software Controlled
Limiters	4 band
Clippers	2 band
Composite processor	Yes
Presets	Factory and User prests with Bypass option
Pre emphasis	50µs and 75µs , selectable
Low pass Filter	software adj 4.5 and 10 KHz; NRSC & ITU standards
High pass Filter	software adj 50 and 100 Hz; NRSC & ITU standards
Asymetric modulation	positive peak up to 150%

ANALOG INPUT

Nom. input level	+4 dBu
Max input level	+24 dBu
Analog input impedance	≥ 600 ohms balanced
CMRR:	better than 65 dB between 20 and 15KHz
Connectors	XLR balanced EMI surpressed
A/D conversion	24 bit
THD	< 0.01%, measured between 20 and 10 KHz, with de enphasys at 100% modulation
Dynamic range	better than 90 dB
Noise level	->90 dB, at 100% modulation measured 20 and 10 KHz
Crosstalk	than 70 dB between 20Hz and 15 KHz channel

ANALOG OUTPUT

Analog output level	0-24 dBu software adjustable
Analog Output Impedance:	< 150 ohm
Connectors	2 x XLR balanced adjustable and EMI surpressed
D/A conversion	24 bit
CMRR	better than 65 dB between 20 and 15KHz
Dynamic range	better than 90 dB
Crosstalk	> than 70 dB between 20Hz and 15 KHz channel

DIGITAL OUTPUT (AES/EBU)

Sampling rate	32-192 kHz (MPX over AES ready)
Connector	XLR balanced EMI surpressed
Level	-32 - 0 dBfs software adjustable

DIGITAL INPUT (AES/EBU)

Sampling rate	0 - 12 dBu adjustable typical level 3 Vpp
Connector	2 x BNC EMI surpressed
Nominal input level	192KHz, internally oversampled

MPX / RDS

Output level	>60 dB 20Hz - 15 kHz
MPX outputs	2 x BNC EMI surpressed
D/A conversion	192KHz, internally oversampled
Stereo seperation	>60 dB 20Hz - 15 kHz
MPX inputs	2 x BNC EMI surpressed
A/D conversion	192KHz, internally oversampled
Pilot output	BNC software switched with MPX2 output
Pilot Carrier Level adjust range:	0% to 12%, software controlled
Channel Separation	better than <65db between 20Hz and 15KHz

Remote Control

Connectors	Serial, USB A, USB B, RJ45
Protocols	HTTP (browse, mobile, API), SNMP, TELNET, FTP, SMTP, RS232

OTHER

Power	90 - 260 VAC, 50/60Hz, 25W IEC connector
Environmental	-20°C - 50°C / 0-90% RH, non-condensing
Size (inch)	19" W x 1.73" H x 9.84" D
Size (mm)	44mm x 482mm x 200mm
Weight	1.6 Kg
Warranty	**10 year limited warranty**

