DATASHEET

DSPmpX encore | MPX CODEC & ANALYSER

Reference grade composite stereo encoding & decoding, with metering and analysis.

There are stereo encoders, there are peak limiters, there are RDS encoders, there are decoders, there are metering devices, there are test sets - but never all in one package **- before now.**

The DSPmpX encore follows on from the original reference grade stereo encoder, the DSPmpX, by adding decoding capabilities, RDS generation and a completely hot as hell front panel that displays an analysis of what is going on. If you are doing anything with an MPX signal **- this box is what you need.**

Why you'll never regret choosing the DSPmpX encore.

- **MPX & RDS Encoding, Decoding, metering & analysis** make this product the swiss army knife of composite stereo FM products.

- **One button configuration switching between encoding and decoding** analysis makes this box incredibly flexible and powerful.

- **Always on' front panel high resolution LED meters** offer full confidence metering of the composite signal and it's components.

- **Stereo (MPX) generation & peak limiting** with advanced anti-aliased protection distortion control or peaks and bandwidth.

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

- **Plan B Silence Detection and Source Switching** automatically reverts to auxiliary audio sources or on-board flash memory, keeping your broadcast on air.

- **HTML5, FTP, Telnet, SNMP & RS232 Remote Control with IP streaming** allows you to monitor and control your processor from anywhere in the world. Even listen in over an IP connection.

- **A flexible and versatile action and alerts system** brings together back panel GPIO at digital and analogue levels of your choosing, integrating it with an easy to set up 'do this when' and 'do this now' set of actions.

SPECIFICATION

ENCODING

Protection limiter	yes
Composite processor	yes
Metering and analysis	L-R, L+R, L-R, pilot level, RDS level, MPX +, MPX -

DECODING

Outputs	MPX (dual), L-R, L+R, L-R, pilot, RDS
Stereo seperation	>60dB
Metering and analysis	L-R, L+R, L-R, pilot level, RDS level, MPX +, MPX -

ANALOG INPUT

Nom. input level	+4 dBu
Max input level	+24 dBu
Connectors	XLR balanced EMI surpressed
A/D conversion	24 bit
Distortion	<0.01%

ANALOG OUTPUT

Analog output	0-24 dBu adjustable
Connectors	XLR balanced EMI surpressed
D/A conversion	24 bit

DIGITAL INPUT (AES/EBU)

Sampling rate	32-192 kHz (MPX over AES ready)
Connector	XLR balanced EMI surpressed
Nominal input level	-20 dBfs

DIGITAL OUTPUT (AES/EBU)

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

MPX / RDS

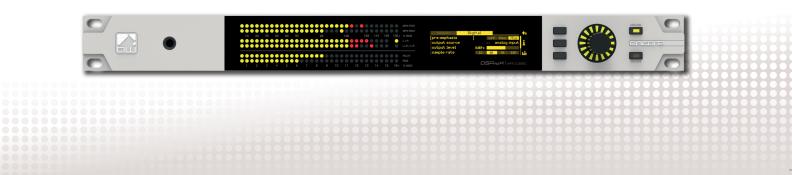|	
Output level	0 - 12 dBu adjustable
MPX outputs	2 x BNC EMI surpressed
D/A conversion	192KHz, internally oversampled
Stereo seperation	>60 dB 20Hz - 15 kHz
MPX inputs	2 x BNC EMI surpressed
A/D conversion	192KHz, internally oversampled
Pilot output	BNC software switched with MPX2 output

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	-20ºC - 50ºC / 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**