

RBRX encore | RE-BROADCAST RECEIVER



bw broadcast Ltd

The 'king' of re-broadcasting!

Diversity, low distortion, stereo noise reduction... it goes on & on.

Whether you are setting up a new installation, or looking to improve an existing one. Make sure you choose a re-broadcast receiver that can pull in weak signals and re-broadcast with clarity, even at difficult sites with changing conditions.

This premium re-broadcast receiver has two tuner cards as standard and a whole host of new industry first features including, but not limited to, dual tuner diversity blending using advanced polarisation multi-path cancelling techniques. There's also still the multi-band L-R adaptive stereo noise reduction pioneered by the RBRX1.

Why you'll never regret choosing the RBRX encore.

- **DUAL FM tuners, stereo regeneration, stereo noise reduction** and much more make this product the swiss army knife of FM re-broadcast applications.
- **On-channel polarisation diversity multi-path reduction** improve reception performance like never before.
- **Peak limiting and RDS PI code checking** ensure your broadcast is peak limited, bandwidth compliant, and translators are free from hijacking.
- **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!
- **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 on your 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

FM TUNER (Dual)	
Inputs	2 x 50 Ohm, BNC Female
Tuning range	65-108MHz in 50kHz or 100kHz steps
IF bandwidth	56kHz - 311kHz dynamic or fixed
De-emphasis	75us, 50us or Off
SNR (Mono/Stereo)	-79dB / -60dB
THD (Mono/ Stereo)	0.011% / 0.16%
Stereo Separation	>50dB
Adjacent / alternate channel rejection	70dB / 74dB

ANALOG INPUT

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

ANALOG OUTPUT

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

DIGITAL INPUT (AES/EBU)

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

DIGITAL OUTPUT (AES/EBU)

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

MPX / RDS

Output level	0 - 12 dBu adjustable
MPX outputs	2 x BNC EMI suppressed
D/A conversion	192KHz, internally oversampled
Stereo separation	>60 dB 20Hz - 15 kHz
MPX inputs	2 x BNC EMI suppressed
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	-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	4 year warranty

