

## RBRX encore | RE-BROADCAST RECEIVER



## 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!
- **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

#### 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      | <b>4 year warranty</b>                   |

