



# Intelligent FM Re-broadcast Receiver

smart-RX



## Features

- 88-108MHz PLL tuner
- Sensitive Front-End
- DSP filtering
- Easy to use
- Highly compact 1U design

## Applications

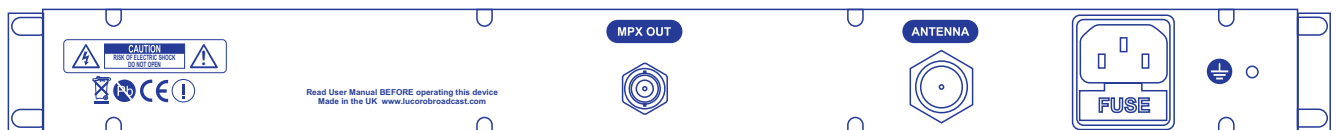
- Weak signal areas
- Sites with strong adjacent signals
- Multiple RX chains
- Community and local radio
- Network sites

The smartRX is an Intelligent FM Receiver for use at rebroadcast relay (Transposer) transmission sites. It is ideal for locations where the parent signal might be lower in strength than +54dBuV/m, and where strong interfering signals are present.

It features a sophisticated RF input filter, followed by a highly sensitive Front-End with quadruple Varactor filtering, giving excellent immunity to other signals and high selectivity. The IF stage features triple filtering and DSP stages which reconstruct the baseband without the noise associated with weak incoming signals. All stages of the multiplex signal are re-generated, noise-free, including the Pilot signal, stereo subcarrier and the RDS subcarrier.

This not only provides the optimum audio quality for the rebroadcast signal, but also ensures that levels once again become compliant with broadcast regulations, especially spectral occupancy.

All adjustments are made automatically by the DSP circuits, making installation a very simple process. Furthermore, the multiplex output level can be adjusted via the from panel LCD menu.



## Specifications

Dimensions:	1U 43 H x 482 W x 135 D (mm)	PLL tuning frequency:	87.5 - 108 MHz
Weight:	1.2kg	Useable sensitivity:	6dBu
RF input:	N female, 50 ohms	Baseband response:	10 Hz to 100 kHz $\pm$ 1 dB
MPX output:	BNC, 75 ohms	Voltage:	100-250Vac 50-60Hz
MPX output level:	0 to 3V p-p into 75 ohms	Compliance:	CE, UKCA

## Lucoro Broadcast

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