

RX400

Single/Double Conversion Receivers

The RX400 Series II is a high quality radio link or rebroadcast receiver suitable for supplying programme feeds to transmitters and for remote broadcasts.

Features

- Wide range of frequency options
- Internal stereo decoder
- “Hot standby” function
- Multi-channel versions available
- RDS/SCA compatible
- Specially optimised rebroadcast version

decoder have further enhanced the outstanding audio performance.

Slaved to an “off-air” reference, the RX400 can receive a stereo composite/multiplex signal generated at the studio, requiring no

additional encoding equipment at the main transmitter site. The exceptionally flat frequency and phase responses to 100kHz enable RDS and SCA services to be conveyed without degradation.

Both unbalanced composite/multiplex outputs and balanced, low pass filtered and de-emphasised stereo outputs are provided as standard. Alternatively, the internal stereo decoder may be disabled using a rear panel switch to give two separately buffered mono outputs.

On the front panel, a stereo headphone monitor jack and signal strength/audio level meter are included. Signal strength (with the threshold level easily previewed and set on the front panel meter) and pilot detectors monitor reception and provide relay contacts for control of a main transmitter or other equipment.

A standby composite/multiplex input is also fitted. Power failure or loss of received signal drops out an internal changeover relay and routes this standby signal through to the output. If a second receiver is connected to the standby input then a “hot standby” system is formed. Further receivers or even a locally generated composite/multiplex source may be connected in “daisy-chain” fashion if required.

The functionality of the RX400 can be further enhanced by adding up to two internal expansion modules, such as RDS OK and tone detectors. The RX400 receiver is available in the following standard variants, all covered by a five year warranty. Other options such as non-standard frequencies and differing IF bandwidths are available to special order.



Table	
RF Input	50ohm on N-type connector
Selectivity	95 dB @ +/- 400 kHz (RBRX Version)
Mono/stereo outputs	Electronically balanced on XLR, 50Ω impedance
AF response	30Hz to 15kHz +/-1dB (L/R Outputs)
Audio distortion	Better than -54dB (0.2%) at 75kHz deviation
Noise (A-weighted)	-72dB wrt 75kHz deviation
Stereo Separation	>45 dB at 1kHz, > 35dB at 10kHz
Pilot rejection	> 70dB
De-emphasis	50uS or 75uS
Composite/multiplex output	Unbalanced on BNC connector, 75Ω impedance
Standby composite/ multiplex input	Unbalanced on BNC connector
Control/monitor port	25 way D-type connector
Power supply	100/115/230Vac +/-10%, 50/60Hz
Temperature (operating)	-20 to 55 C
Dimensions	44mm (1U) high x 443mm wide x 285mm deep
Specification subject to change	

