



RPT503 UHF Transmitter



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Time critical messaging

The RPT503 HF series paging transmitter has been designed specifically to interface with Multitone's paging systems, but equally capable of providing a reliable transmitter solution for other systems. With up to five watts of output power, supporting master and slave line synchronisation, it is designed to ensure robust and resilient paging communications.



Technical specification

Characteristics

- Radio performance: RPT503 UHF (PLL Synthesised Radio)
- Frequency range: 440 to 470MHz
- Frequency stability: +/-2.5ppm, -20°C to +60°C
- Output power: up to 5W
- Duty cycle: up to 100%
- Normal load impedance: 50 Ohms
- Channel Spacing: 12.5/20/25kHz
- VSWR protection: protection against short-term removal of the antenna (maximum of five calls with the antenna disconnected)
- Antenna options: centre-fed dipole or stand alone UHF whip with 4m cable

Inputs

- Line input: -33 to +10dBm, 600 Ohms balanced line
- AC mains input: 100 to 240V 50/60Hz (separate power supply unit)
- DC input: 13.6V at 2.1A

Ancillary connections

- Line input: 8-way RJ45 connector, -33 to +10dBm, 600 Ohms balanced line
- RF output: 50W N-type connector
- Auxiliary transmitter control: 15-way high density D-type connector
- 600 Ohms line input: 8-way RJ45 connector, speech and data and line synchronisation (Mk6 and Mk7 only)
- Line synchronisation frequency: 20kHz

Display and alarms

- LED indicators: standby, transmitter keyed and transmitter failed
- Alarm outputs: open collector logic fault indication

Environmental

- Operating temperature: -20°C to +60°C
- Storage temperature: -20°C to +70°C
- Code format: Multitone Mk6 & Mk7 & POCSAG (CCIR No.1)

Physical characteristics

- Size: 60 x 168 x 104mm (hwxwd)
- Weight: 650g

Key Benefits

- Easy selectable power output from one to five watts
- Fully synthesised transmitter from 430MHz to 470MHz
- Up to 100 percent duty cycle
- Multitone Mk6, Mk7 and POCSAG formats supported
- Easy to install and configure using a standard PC or laptop
- Small footprint

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