

## **MULTITONE PAGING SYSTEMS**

**SALES DATA SHEET** 

### **RPT503 UHF - PAGING TRANSMITTER**



- Easy selectable power output from 1 to 5 watts
- Fully synthesized transmitter from 430MHz to 470MHz
- Up to 100 percent duty cycle
- Multiple code formats: Multitone Mk6, Mk7 and POCSAG
- Easy to install and configure using a standard PC or Laptop
- Small footprint

The new RPT503 UHF Series Transmitter has been designed specifically to interface with the Multitone paging systems. With up to 5 watts of output power and supporting master and slave line synchronization it meets the requirements of even the largest paging systems.

#### Connected by a Single Twisted Pair

A single pair line cable is all that is required to connect the encoder to the transmitter. This allows local operation via a twisted cable pair, or remote operation via a PTT line. DTMF tones switch the transmitter into different modes, allowing both analogue and digital data and speech to share the same pair.

#### **Multiple Code Formats Supported**

The RPT503 Series Transmitters can be used for Multitone analogue and digital formats, transmitting any analogue, digital or FM (Frequency Modulation) code formats. The RPT 503 transmitters are also able to transmit FSK (Frequency Shift Keyed) formats such as POCSAG (CCIR Radio Paging Code No. 1).

#### **Integral Line Synchronisation**

The RPT503 Series Transmitter can be synchronised to other transmitters on the same frequency, without the requirement for a separate synchronization unit. The RPT 503 transmitters are linked via an audio-pair line and use low frequency tone signaling to synchronise the transmitter frequencies.

### **Status Indication & Fault Monitoring**

LED's provide visual indication of the transmitter status. These include; Tx keyed, power and fault. Internal fault conditions are also monitored, such as High Reverse Power and Oscillator Fail. Further features include a failsafe timer, to key down the transmitter automatically after 256 seconds and a phase locked local loop oscillator for consistent performance and reliability.

#### **Easier Installation & Support**

Transmitter set-up is configured via a standard PC or Laptop, making the RPT503 UHF Transmitter easy to install and configure on-site. With a small footprint and extremely lightweight design this product is much easier to handle. Supplied with both mounting brackets and feet, it can be easily wall or desktop mounted.



## **MULTITONE PAGING SYSTEMS**

**TECHNICAL SPECIFICATION** 

# **RPT503 UHF - PAGING TRANSMITTER**

Radio Performance RPT 503 UHF (PLL Synthesized Radio)

Frequency Range 430-470MHz

Frequency Stability +/- 2.5 ppm -20°C to +60°C

 $\begin{array}{ll} \text{Output Power} & \text{Up to 5W} \\ \text{Duty Cycle} & \text{Up to 100\%} \\ \text{Normal Load Impedance} & 50\Omega \end{array}$ 

Channel Spacing 12.5/20/25kHz

VSWR Protection Protection against short-term removal of the antenna

(maximum of 5 calls with the antenna disconnected)

Antenna Options End-fed dipole or standalone UHF whip with 4m cable

Inputs

**RF** Output

Line Input  $-33 \text{ to -13dBm, } 600\Omega$  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 13dBm  $600\Omega$  balanced line

50W N-type connector

Auxiliary Transmitter Control 15-Way High Density D-type connector

-13dBm into  $600\Omega$  (speech and data)

Line Synchronisation 8-Way RJ45 connector

-13dBm into  $600\Omega$ 

Line Synchronisation Frequency 20kHz

**Displays & 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)

Dimensions

Length x Height x Depth 168mm x 60mm x 104mm

Weight 650 grams

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