

MX921

LOW CURRENT BASE STATION REPEATER

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Mx921 Low Current Base Station Repeater

The MX921 low current Repeater and Base Station, is designed for minimum power consumption and features the lowest current draw of any professional, high performance Repeater/Base Station.

The MX921 is easy to configure, with the elimination of hardware links, DIP switches, tuneable components and mechanical adjustments. Programming and configuration is by means of a built in 'terminal emulation' or the "920Tools" application program running on a PC via the RS232 port.



Many radio communication products in today's market are offering reduce power wastage by constantly duty cycling (sleep mode) the receiver by switching the radio on and off. This has no power saving advantage when the receiver is receiving and only serves to significantly slow the response of the receiver's carrier detection time and resultant Repeater wake-up time. Other power saving alternatives, degrade the RF performance to unacceptable levels. The MX921 does not sacrifice any of these critical requirements and still achieves a level of performance few competitors can provide at any power consumption level.

The radio is housed in a 19" rack mountable cabinet and was originally designed for solar system operation. However, if your application is not Solar powered, the MX921 can deliver the high performance and advanced features required for optimum performance utilising an external power supply. The base station/repeater is simple to operate with rotary front knobs provided for Volume and Squelch/Mute level adjustments and a dual push wheel thumb switch for selection of up to 99 channels. The front panel display LEDs indicate base station status and a push on/off switch selects or cancels repeater mode. A 1 Watt speaker provides loud and clear audio output.

Feature Highlights of the MX921 include:

- Low current consumption. (<60mA receive, typical 58mA.)
- 100% full power duty cycle.
- RX & TX Switching Bandwidth covers full sub band (35MHz).
- CTCSS, Duplex DCS/DPL encoder/decoder.
- DTMF encoder/decoder.
- Remote controllable Multi tone CTCSS community decoder.
- Duplex or Repeater mode selectable from front panel.
- Programmable 12.5/25kHz channel spacing.
- Broad Band High Efficiency LDMOS PA module.
- Low RFI and EMI emission design.
- Multi staged TX VF processing with triple limiters.
- Fast and simple disassembly.
- Fully Programmable via PC or serial device.
- Flash Firmware Upgrade Capable.
- No need for receiver duty cycling.
- Optional System Interface.
- Flash Firmware Upgrade Capable.
- Battery backup system option.
- Built In Test Equipment (B.I.T.E.) and remote diagnostics.



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