

MX920 RJ45 SOCKET

INTRODUCTION

An RJ45 socket is provided on the front panel for connection of a microphone. This socket is wired for compatibility with other industry standard microphones. The desktop microphone is compatible with the MX920 and MX800. Also provides RS 232 Communication between radio and PC.



SOFTWARE MENU SYSTEM

The MX920 Desktop Repeater comes with its own internal menu system accessed with any general terminal package. The menu system allows the user to change several configuration settings to suit the environment in which the MX920 must operate.

The menu system is entered through a terminal emulator program. The settings are 57600 baud, no parity, 8 data bits and 1 stop bit. HyperTerminal, which is included with Windows, is a suitable program for this purpose.

The command 'RMENU' is entered on the terminal, this command is not case sensitive. (Firmware Ver 0.2.0 and above Carriage return is required after typing "RMENU ↵")

The user will then be presented with a menu system from which various settings and configurations can be selected. To exit the menu system the <ESC> key can be pressed.

HYPER TERMINAL, NEW CONNECTION

1. On the **File** menu, click **New Connection**.
2. In the **Name** box, type a name that describes the connection. (eg.MX920)
3. In the **Icon** box, click the appropriate icon, and then click **OK**.
4. In the **Connect To** dialog box, select Com port you wish to use, and then click **OK**.
5. Set Com port properties, (The settings are 57600 baud, no parity, 8 data bits and 1 stop bit, no hardware control) and then click **OK**.
6. Type "RMENU" to access the MX920 (Firmware Ver 0.2.0 and above Carriage return is required after typing "RMENU ↵")

See hyper terminal help screen for further help.

INTERFACING INFORMATION

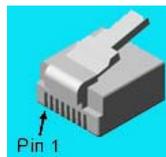
When an audio connection and a RS232 Control are required at the same time, use a double adaptor RJ45 socket (Figure 1-1). Be sure not to run cables side-by-side or use a common cable, other wise noise for RS232 cable maybe induced onto the audio cable.



(Figure 1-1) 8P8C RJ45 Modular double adaptor

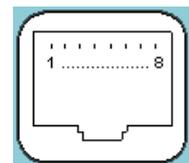
Pin No	Function	Comment
1	Low level muted RX VF	Filtered and De-emphasis.
2	+8V DC	Current limited.
3	Microphone PTT	Pulled to +5V via 10k resistor. Connect to ground for PTT.
4	Microphone VF	600 ohms Z, gain and compression functions are software controlled.
5	EARTH common	Pin5 DB9M(PC RS-232).
6	Hook / Monitor switch	For quiet base use. Connect to ground for quiet base operation.
7	RS-232 Rx/D	Pin2 DB9M(PC RS-232).
8	RS-232 Tx/D	Pin3 DB9M(PC RS-232).

(Table 1-1) MX920 RJ45 Socket Pin Functions



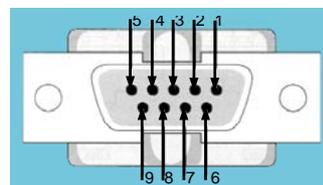
(Figure 1-2)

RJ45 8P8C Plug



(Figure 1-3)

RJ45 8P8C Socket front View



(Figure 1-4)

DB9 Female- socket viewed from front of connector.

