## **Using HyperTerminal With MFJ Keyers/Readers**

HyperTerminal is a terminal software that comes with Microsoft Windows. You can use this software to interface with most MFJ Keyers and Readers, such as the MFJ-461, MFJ-464, MFJ-493 and MFJ-495. Perform the following steps:

- 1. Click **Start**, point to **Programs**, point to **Accessories**, point to **Communications**, and then click **HyperTerminal**.
- 2. Connection Description window appears, type a name such as MFJ-464, choose an icon, and click OK.

Connection Description	? 🗙
New Connection	19
Enter a name and choose an icon for the connection Name MFJ-464	
ОК Салс	el

3. **Connect To** window appears, in the **Connect using** field, select the COM port that you will connect your Keyer or Reader to. Ignore the other fields, and make sure this COM port is not used by another application or device. Click **OK**.

Connect To
🧞 MFJ-464
Enter details for the phone number that you want to dial:
Country/region: United States (1)
Area code:
Phone number:
Connect using: COM1
OK Cancel

	<b>Bits Per Second</b>	Data Bits	Parity	Stop Bits	<b>Flow Control</b>
MFJ-461	19200	8	None	1	None
<b>MFJ-464</b>	9600	8	None	1	Xon / Xoff
MFJ-493	1200	8	None	1	None
MFJ-495	1200	8	None	1	Xon / Xoff

4. COM Properties window appears, set the port settings as follow and click OK.

For example, to interface with the MFJ-464, select 9600 bits per second, 8 data bits, no parity, 1 stop bit and Xon / Xoff flow control as shown below.

W1 Properties Port Settings		?
Bits per second:	9600	v
Data bits:	8	×
Parity:	None	Y
Stop bits:	1	~
Flow control:	Xan / Xaff	~
	Res	tore Defaults
0	K Cancel	Apply

- 5. On the HyperTerminal window, click File and then click Save. Next time when you want to use HyperTerminal with these settings, click Start, point to Programs, point to Accessories, point to Communications, point to HyperTerminal, and then click MFJ-464.ht (or whatever name you entered in Step 2). You can also create a shortcut on your Windows desktop for easy access.
- 6. Connect the Keyer or Reader to your computer serial port using a RS-232 serial cable. If there is problem, check your serial cable connection and make sure the COM port is not used by another application or device. If HyperTerminal window shows garbage such as [][][][@#\$%^@, then you most likely have set the wrong bits-per-second in Step 4.

A special 3.5mm-to-DB9 RS-232 serial cable is used to interface with the MFJ-461 and MFJ-464 (DB9-to-DB25 adapter is required if your computer has the older 25-pin serial port). This serial cable, the MFJ-5161, is available from MFJ Enterprises, Inc. or you can make your own.

Connect 3.5 mm Stereo Plug	To DB9 (female)	To DB25 (female)
Tip (TxD)	Pin 2	Pin 3
Ring (RxD)	Pin 3	Pin 2
Sleeve (GND)	Pin 5	Pin 7

For the MFJ-464, MFJ-493 and MFJ-495 you might want the characters you typed on the computer to appear on the terminal window. To enable this, set up HyperTerminal as follow.

- 1. On the **HyperTerminal** window, click **File** and then click **Properties**.
- 2. Properties window appears, select the Settings tab and then click ASCII Setup...

Function, arrow, and c	tri keys act as
Terminal keys	Windows keys
Backspace key send	5
⊙ Ctrl+H 🔿 De	i 🚫 Ctrl+H, Space, Ctrl+H
Emulation:	
Auto detect	Y Terminal Selup.
felnetterminal ID:	ANSI
Backscroll buffer lines:	500 🗘
Play sound when co	nnecting or disconnecting
Input Translation	ASCII Setup

3. ASCII Setup window appears, make sure "Send line ends with line feeds" and "Echo typed characters locally" are checked. Click OK and click OK again.

ASCII Setup
ASCII Sending Send line ends with line feeds Echo typed characters locally Line delay: 0 milliseconds. Character delay: 0 milliseconds.
ASCII Receiving <ul> <li>Append line feeds to incoming line ends</li> <li>Force incoming data to 7-bit ASCII</li> <li>Wrap lines that exceed terminal width</li> </ul>
OK Cancel

4. Click **File** and then click **Save** to save these settings for use next time.