

FSTTY for PAC Mate

User's Guide

Freedom Scientific BLV Group, LLC
June, 2005

PUBLISHED BY
Freedom Scientific
11800 31st Court North
St. Petersburg, Florida 33716-1805
USA
<http://www.FreedomScientific.com>

Information in this document is subject to change without notice. No part of this publication may be reproduced or transmitted in any form or any means electronic or mechanical, for any purpose, without the express written permission of Freedom Scientific.

Copyright © 2005 Freedom Scientific BLV Group, LLC. All Rights Reserved.

Microsoft, Windows NT, Windows 2000, Windows 95, Windows 98, Windows Me, Windows XP Home and Professional are registered trademarks of Microsoft Corporation in the U.S. and/or other countries.

Table of Contents

Welcome	1
Requirements	1
What's in the Box.....	1
Document Conventions	2
Getting Started	3
Setting Up the FSTTY Hardware	3
Overview of the Ultratec Intelle-Modem	3
Connecting the Components.....	4
Using Your Carrying Case	5
Setting Up the FSTTY Software	5
Preparing to Install the Software	6
Installing FSTTY.....	6
Installing the Socket Serial I/O Card Software	7
Starting FSTTY	7
Activating FSTTY	8
Using FSTTY	9
Making a TTY Call	9
Answering a TTY Call	10
Automatically Answering Calls	10
Saving Conversations.....	11
Quitting FSTTY	11
Advanced Commands	11
Clearing your Conversation History	12
Copying Text.....	12
Pasting Text	12
Sending Contacts and Calendar Information	13
Entering Command Mode	13
Intelle-Modem Commands	14
FSTTY Keyboard Shortcuts	15

Welcome

Thank you for purchasing FSTTY for PAC Mate. FSTTY is a complete telecommunications solution for deaf/blind PAC Mate users. With the included external modem and FSTTY software, you can communicate with any teletypewriter (TTY) device easily and quickly.

Requirements

To use this product, you need the following items in addition to those that are included with your purchase of FSTTY:

- Personal computer with Microsoft Windows, Microsoft ActiveSync, and a connection to the Internet
- PAC Mate BX or QX (it is recommended that you install the latest version of the PAC Mate firmware)
- 20 or 40 cell portable braille display for PAC Mate
- Standard analog telephone line

What's in the Box

The following components are included with your purchase of FSTTY:

- Ultratec Intelle-Modem
- Modem power cable
- Telephone cable
- Serial cable
- Socket Communications serial I/O CompactFlash card
- FSTTY program CD
- Carrying case for the Intelle-Modem and cables

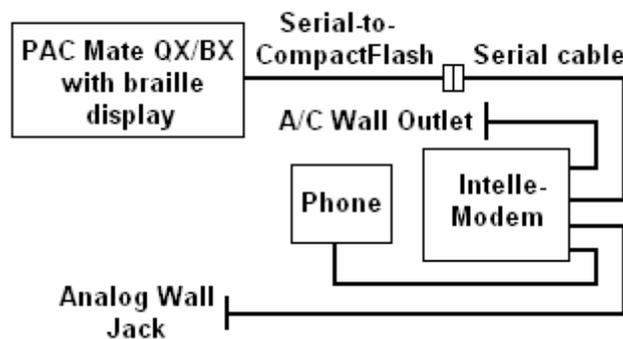
Document Conventions

This guide observes the following conventions:

- Menu names, command names, and dialog box options appear in bold text.
- Keystroke commands that you press appear in bold text.
- References to other sections of this guide appear in italics, followed by the corresponding page number.
- The command syntax for the PAC Mate QX appears first, followed in parentheses by the version of the same command for the BX.

Setting Up the FSTTY Hardware

FSTTY includes all the necessary cables and components that you need to use your PAC Mate and portable braille display as a fully functional TTY device. The following diagram provides an overview of how to connect the various components. Detailed steps are provided in *Connecting the Components* on page 4.



Overview of the Ultratec Intelte-Modem

Before attempting to connect all the components, familiarize yourself with the various connectors and controls on the back of the Ultratec Intelte-Modem. Turn the modem so that the rear side of the unit is facing you. Proceeding from left to right, each of the modem's connectors and controls is described in order below:

Note: The user's guide for the Ultratec Intelte-Modem is included on the FSTTY program CD in text format. This guide contains detailed information about your modem.

- **Line Jack** – Allows you to connect the modem to a conventional telephone using a standard telephone cable (not supplied).
- **Phone Jack** – Allows you to connect the modem to a standard analog telephone wall jack.

- **Serial Port** – Allows you to connect the modem to your PAC Mate using the supplied serial cable.
- **Remote Port** – This port is not required when using FSTTY. For information on this port, refer to the Ultratec Intelle-Modem user's guide located on your FSTTY program CD.
- **Volume Knob** – Allows you to control the external volume of the modem. FSTTY does not provide any audio output.
- **AC Power Connector** – Allows you to connect the modem to a standard AC wall outlet using the supplied power cable.
- **On/Off Switch** – Allows you to turn the modem on or off. Move the switch towards the center of the unit to turn the modem on. Move the switch towards the edge of the unit to turn the modem off.

Connecting the Components

After you have become familiar with the various connectors on the back of the modem, do the following to connect the components required to use FSTTY:

1. Connect the power cable to the small, round AC power connector between the volume knob and power switch. Then, plug the cable into a standard AC wall outlet.
2. Connect the phone cable to the Phone jack on the back of the modem. Then, plug it into a standard analog telephone wall jack. The Phone jack is the jack closest to the center of the unit.

Tip: If you also want to use the wall jack for a conventional telephone, connect a second telephone cable (not supplied) to the Line jack. Then, plug this cable into the jack on the conventional telephone.

3. Connect the serial cable to the modem's serial port.
4. The cable for the Socket serial I/O card has two ends. One end is a serial connection, and the other is a CompactFlash card. Connect the serial connection to the open end of the serial cable.

5. Insert the CompactFlash card end of the cable into an available slot on your PAC Mate BX or QX.
6. Be sure that your portable Braille display is connected to the PAC Mate. For more information, refer to your PAC Mate portable braille display user's guide.

Using Your Carrying Case

FSTTY includes a carrying case that can hold your Ultratec Intelle-Modem, cables, and AC power adapter. To open the case, open the zipper and then lift up the top flap. This top flap has a zippered compartment for storing the various FSTTY cables. A pouch is also located inside the case. Use this pouch to store the AC power adapter for the Intelle-Modem.

Tip: Before opening the carrying case, note the position of the metal ring attachments. If these rings are below the zipper, then the case is right-side up.

Inside the case is a foam insert designed to protect the Intelle-Modem during transport. You can secure this insert inside the case using the pair of Velcro strips underneath the foam. To attach these strips to the foam, peel back the thin paper that cover the strips' adhesive backing. Then, replace the foam insert, pressing down on it firmly. The adhesive backs will attach the Velcro strips to the foam insert, securing it in place.

Setting Up the FSTTY Software

Before using FSTTY, you must install the FSTTY software and the Socket serial I/O card software on your PAC Mate. The FSTTY software allows your PAC Mate to function just like a standard TTY device. The Socket serial I/O card software provides the necessary drivers for the included serial I/O card. To install this software on your PAC Mate, you need a personal computer with Microsoft ActiveSync.

Note: To activate your license of FSTTY, you also need an Internet connection (see *Activating FSTTY* on page 8).

Preparing to Install the Software

Before installing either the FSTTY software or the Socket serial I/O card software, do the following to prepare for the installation:

1. Connect your PAC Mate to your personal computer using a USB cable.
2. Establish a Standard or Guest ActiveSync partnership.
3. Insert the FSTTY program CD in your computer's CD drive.
4. On your computer, press **WINDOWS Key+E** to start Windows Explorer.
5. Select your CD drive and then press **F6** to view a list of all files and folders on the FSTTY program CD.

After you finish these steps, refer to *Installing FSTTY* on page 6 and *Installing the Socket Serial I/O Card Software* on page 7 for information on completing the software installation.

Installing FSTTY

After you have performed the steps in *Preparing to Install the Software* on page 6, do the following to install FSTTY:

1. In Windows Explorer, select the file FSTTYSetup.exe and press **ENTER**.
2. Read the introduction and then choose **Next**.
3. Read the license agreement. If you accept the terms and conditions of the license agreement, select the **I accept the terms in the license agreement** radio button and choose **Finish**.
4. Setup asks you whether you want to install FSTTY in the default folder. Choose **Yes** to continue, or choose **No** to select a different folder.

5. A message displays indicating that the installation is complete. Choose **OK** to continue.

FSTTY is now installed on your PAC Mate. However, you must activate your license of FSTTY before you can use the program. For more information on activation, see *Activating FSTTY* on page 8.

Installing the Socket Serial I/O Card Software

Before you can use the Socket serial I/O card to connect your PAC Mate and modem, you must install the necessary software. After you have performed the steps in *Preparing to Install the Software* on page 6, do the following:

1. In Windows Explorer, select the file HSSIO-CR1515.exe and press **ENTER**.
2. Follow the instructions on your screen to complete the installation.
3. Perform a soft reset on the PAC Mate.

Starting FSTTY

After you have connected all the components and installed the necessary software, you can begin using FSTTY. To start FSTTY on your PAC Mate, do the following:

1. Press the **WINDOWS Key (F4)** to open the **Start** menu.
2. Press **P** to choose **Programs**.
3. Press **F** until you select **FSTTY**.
4. Press **ENTER** to start the program.

If this is the first time you have started FSTTY, you need to activate your license before you can use the software. For more information, see *Activating FSTTY* on page 8.

Activating FSTTY

After you install the FSTTY software, you can activate your license. To activate FSTTY, you need a personal computer with an Internet connection. Do the following to complete the activation process:

1. On your personal computer, connect to the Internet and point your browser to <http://www.PMActivate.com>.
2. Follow the link for FSTTY Activation.
3. Type your confirmation code into the **Confirmation code from software certificate** edit box. You can find this code in print and braille on the activation card included with FSTTY.
4. Follow the instructions on the Web page to provide the remaining required information.
5. Choose the **Submit** button to receive your authorization code. Copy this code and store it in a safe location. You will need to enter it the first time you start FSTTY.
6. Start your PAC Mate. Then, open the **Start** menu, choose **Programs**, and choose **FSTTY**.
7. Follow the instructions on your PAC Mate to enter the authorization code that you received from PMActivate.com.

If you entered your authorization code correctly, FSTTY is now fully authorized on your PAC Mate.

Making a TTY Call

After you have installed and activated the software and connected all the necessary components, you are ready to make a call. You can call any person with a TTY device or FSTTY. Do the following to make a call:

1. Turn the Intelle-Modem on by moving the on/off switch towards the center of the unit.
2. On your PAC Mate, open the **Start** menu, choose **Programs**, and then choose **FSTTY**.
3. When FSTTY starts, the modem is in command mode. This mode allows you to issue commands directly to the Intelle-Modem. Press **T** to switch to tone dialing.

Tip: A list of some additional useful modem commands can be found on page 14.

4. Press **D**, type the number that you want to dial, and press **ENTER (DOT 8)**.

Tip: While dialing, the modem displays status messages, such as “Dialing” or “Connect.” When one of these messages displays, you will feel the cursor of the braille display move quickly from left to right. This indicates that a status message has appeared. To read this message, press the **UP ARROW**.

5. If the person you are calling answers, a conversation begins. When you type text, it is immediately sent to the person you are talking to. Similarly, text that the other person types immediately displays. You can review the content of your conversation using the standard PAC Mate navigation commands.

Tip: You can copy parts of your conversation. You can also paste text, contacts, and calendar items into your conversation. For more information, see *Advanced Commands* on page 11.

6. When you are finished talking, press **ALT+C (DOTS 2-3-4-5-6 CHORD, C)** to switch to command mode.
7. Press **H** to hang up.

Answering a TTY Call

To answer an incoming call, the Intelle-Modem must be turned on and FSTTY must be running. The status message "Ring" displays when you receive an incoming call. To answer the call, press **A**. Once the connection is established, you can begin exchanging messages with the person that called you.

Automatically Answering Calls

Auto Answer is a feature that allows FSTTY to answer incoming calls automatically. To enable this feature, do the following:

1. Ensure that you are in command mode. FSTTY automatically enters command mode when you first start the program or after you end a conversation.
2. Press **R**.
3. Type a number between 1 and 255 to specify how many rings you want FSTTY to wait before answering. Press **ENTER (DOT 8)**.
4. If you want FSTTY to send a message to the caller after answering, press **M**. When FSTTY asks if you want to enter a new message, press **Y**. Type the message you want to use and then press **ESC (F1)**.

Tip: The ability to leave a message is useful if you want FSTTY to answer calls when you are not available.

5. Press **Z**. FSTTY informs you that Auto Answer is on. You can press any key to turn Auto Answer off again.

When you receive an incoming call, FSTTY automatically answers it after the specified number of rings and then displays your message (if any). You can then begin typing or receiving text. When you or the caller hang up, FSTTY returns to Auto Answer mode and awaits the next call.

Saving Conversations

You can save a transcript of any conversations you have had during the current FSTTY session. You can then open and read this file in a text editor or word processor, such as FSEdit or Pocket Word.

To save a transcript of your latest conversations, do the following:

1. Press **ALT (F2)**, open the **File** menu, and choose **Save**.
2. In the **Name** edit box, type a name for the file.
3. In the **Folder** combo box, select the folder you want to save the file in.
4. The **Type** combo box specifies that FSTTY will save the conversation as a text (.txt) file. You cannot change the file type.
5. In the **Location** combo box, select the memory storage area where you want to save the file.
6. Choose **OK** to save the file.

Quitting FSTTY

To quit FSTTY, press **ALT (F2)**, open the **File** menu, and choose **Exit**. FSTTY deletes the text of all conversations you have had during the current session unless you save it in a file (see *Saving Conversations* on page 11).

Advanced Commands

This section describes some of the more advanced commands and features available in FSTTY.

Clearing Your Conversation History

You can delete the text of all conversations you have had during the current FSTTY session. To do this, press **ALT (F2)**, open the **Edit** menu, and choose **Clear History**.

Copying Text

You can copy text from the current conversation or another document to the PAC Mate Clipboard. Text that you copied can then be inserted at the end of the current conversation (see *Pasting Text* on page 12).

To copy text, you must first select it using the following commands:

- Select Next Letter - **SHIFT+RIGHT ARROW (DOTS 6-7 CHORD)**
- Select Prior Letter - **SHIFT+LEFT ARROW (DOTS 3-7 CHORD)**
- Select Next Line - **SHIFT+DOWN ARROW (DOTS 4-7 CHORD)**
- Select Prior Line - **SHIFT+UP ARROW (DOTS 1-7 CHORD)**
- Select All - **CTRL+A (E CHORD, A)**

Tip: In addition to pressing **CTRL+A (E CHORD, A)**, you can select all the text in the current conversation by using the **Select All** command on the **Edit** menu.

After you select the text, press **CTRL+C (E CHORD, C)** to copy it to the Clipboard. Alternatively, press **ALT (F2)**, open the **Edit** menu, and choose **Copy**. If you decide to select and copy some different text, the new text replaces the text currently on the Clipboard.

Pasting Text

You can use the **Append Paste** command to insert text that you have copied at the end of the current conversation. The pasted text is immediately transmitted to the person you are talking to. To paste text that you have copied, press **CTRL+V (E CHORD, P)**. Alternatively, press **ALT (F2)**, open the **Edit** menu, and choose **Append Paste**.

Sending Contacts and Calendar Information

You can quickly send information from Contacts and Calendar to a person you are having a conversation with. Any details that you have entered for the selected contact or calendar item are converted into text and inserted at the end of the current conversation.

To send information from Contacts or Calendar, do the following:

1. Open the **Start** menu and choose either **Contacts** or **Calendar**.
2. Select the contact person or calendar item you want to send, and press **CTRL+C (E CHORD, C)**.
3. Return to FSTTY, and press **CTRL+V (E CHORD, P)**.

Entering Command Mode

Any time you are not engaged in a conversation, FSTTY enters command mode. In command mode, you can issue commands directly to the Intelle-Modem. However, you can temporarily enter command mode while you are in the middle of a conversation. To do this, press **ALT+C (DOTS 2-3-4-5-6 CHORD, C)**. Alternatively, you can press **ALT (F2)**, open the **Edit** menu, and choose **Command Sequence**. FSTTY enters command mode.

For a list of useful modem commands, see *Intelle-Modem Commands* on page 14. For a complete list of commands, refer to the Ultratec Intelle-Modem user's guide on your FSTTY program CD. Alternatively, you can type **?** while in command mode.

To exit command mode and return to your conversation, press **ESC (F1)**.

Intelle-Modem Commands

The following commands can only be issued if FSTTY is in command mode. To enter command mode, press **ALT (F2)**, open the **Edit** menu, and choose **Command Sequence**.

Note: Complete explanations for these and other commands can be found in the Ultratec Intelle-Modem user's guide included on the FSTTY program CD.

Command	Keystroke
Answer Call	A
Display Current Communications Settings	C
Dial Number	D
Hang Up	H
Auto Answer Message	M
Switch to Pulse Dialing	P
Switch to Tone Dialing	T
Turn Auto Answer on	Z
View Command Mode Help	?

FSTTY Keyboard Shortcuts

The following is a list of the keyboard shortcuts available in FSTTY.

Command	BX Keystroke	QX Keystroke
Select All	E CHORD, A	CTRL+A
Copy Selected Text	E CHORD, C	CTRL+C
Append Paste	E CHORD, P	CTRL+V
Clear History	E CHORD, H	CTRL+H
Switch to Command Mode	DOTS 2-3-4-5-6 CHORD, C	ALT+C