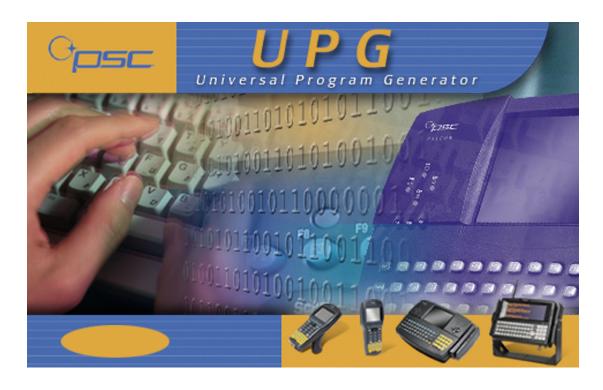


UPG Runtime



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-END-

Getting Started

Chapter 1 Contents

Installing UPG Runtime
UPG Runtime System Requirements
Supported Portables
UPG Runtime Installation
Uninstalling UPG Runtime
Launching UPG
Overview of UPG Runtime
UPG Runtime USer Interface

Installing UPG Runtime

UPG Runtime System Requirements

UPG Runtime runs with the minimum requirements listed below, but for maximum performance, install UPG Runtime onto a computer with a higher speed processor and more memory than the minimum requirements.

Hardware

- Processor 80486/50MHz (Pentium recommended)
- Memory 16MB (32 recommended)
- Hard Disk 10MB
- Video VGA

Operating Systems

- Windows® 98 (SP 5)
- Windows® ME (SP 5)
- Windows® NT (SP 6)
- Windows® 2000
- Windows® XP

Supported Portables

UPG Runtime supports the PSC Falcon, and some other DOS portables as listed below. A compatible docking station or communications cable is required for the portable data collection unit to work with UPG Runtime. Contact a portable data collection supplier to obtain the necessary portable accessories.

PSC

- Falcon 31x
- Falcon 32x
- Falcon 33x
- Falcon 34x
- Falcon 51x

Brady

- Brady DLT
- Brady DLT16

LXE

- 2325
- MX2



Visit PSC's website at www.pscnet.com for up-to-date information on system requirements and a list of currently supported portables.

UPG Runtime Installation

Complete the following steps in the installation utility to install UPG Runtime:

- Select RUN from the Windows START menu.
- 2. Type a: \rtsetup.exe in the OPEN field and press the OK button, using the appropriate drive letter for the CD disk drive.
- 3. Select **Next** on the **Welcome** screen to continue the installation.
- 4. Select **Yes**, **I Accept** to accept the UPG Runtime license agreement at the **UPG License Agreement** screen.
- Select the UPG Runtime destination directory; it installs to the C:\UPG directory by default. Select or create another directory if preferred.
- 6. Select the installation destination for installation of the UPG startup icon.



By default, the UPG Runtime startup icon is placed in the Universal Program Generator program group. If preferred, select or create another startup group.

- 7. Reboot the computer.
- 8. Launch the UPG Runtime.

Uninstalling UPG Runtime

To uninstall the UPG Runtime from the computer, complete the following steps:

- Press the Windows START button.
- Select PROGRAM.
- 3. Select **Universal Program Generator**, or the program group specified during installation.
- Select UPG Runtime UNINSTALL.
- 5. Press the **NEXT** button to begin uninstalling UPG. This removes all of the installed components of UPG from the computer.
- 6. Reboot the computer to complete the uninstall process.

The **UPG** directory may remain after uninstallation. Any projects that may have been built using UPG are saved in the **\Projects** subdirectory of UPG. In this case, the **UPG** directory is not removed to protect existing projects.

Launching UPG

- 1. Press the Windows **START** button.
- Select PROGRAM.
- 3. Select **Universal Program Generator** (or the program group specified in step 6).
- 4. Select **UPG Runtime**.

Overview of UPG Runtime

Welcome to the UPG Runtime User's Guide. This manual explains how to program a portable and transfer data using UPG Runtime.

UPG Runtime allows end users of Universal Program Generator (UPG) generated programs to download programs, UPG Runtime Projects and data files to the Falcon PDT family portables without having UPG. More knowledgeable users can also use UPG Runtime to create and edit program UPG Runtime Project files, and parameter files used by the generated **EXE** and the PDT.

You can run UPG Runtime with or without command line parameters:

- You can download UPG Runtime projects, UPG Generated EXE files, and data files without command line settings. (Refer to <u>UPG</u> <u>Runtime User Interface on page 6.)</u>
- Knowledgeable users can create and edit UPG Runtime project files and parameter files used by the generated EXE with /E command line settings. (Refer to UPG Runtime User Interface on page 6.)
- Running UPG Runtime with the /? or /H command line settings displays the UPG Runtime help file.
- Running UPG Runtime with a project filename automatically loads the project and starts the project file download process. (For example: upgrun sample.prj). (Refer to Figure 7 on page 11).
- Other override commands include:
 - B# = Baud Rate
 - /# = Serial Port Number
 - /I = Product ID (1-5=31x=1, 32x=2, 33x=3, 51x=4, 34x=5).

UPG Runtime User Interface

UPG Runtime downloads UPG created programs and support files to the PDT. You may download an application, a project, or project files using UPG or by UPG Runtime. UPG Runtime can also transfer files between the host PC and the PDT.

UPG Runtime is a menu system. Main menu functionality is visible through command buttons.

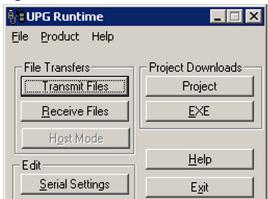


Figure 1: UPG Runtime User Interface

File Transfers & Project Downloads

Chapter 2 Contents

Overview
File Transfers
Transmit Files
Receive Files
Host Mode
Project Downloads
Project
EXE
Help
Exit

Overview

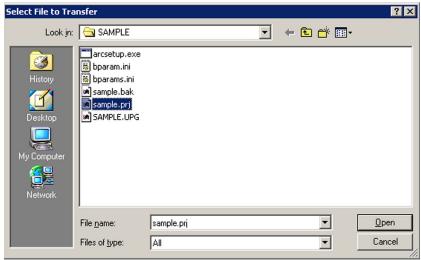
This section covers the most used features of UPG Runtime: **File Transfers** and **Project Downloads**. Access these features with the command buttons in the UPG Runtime user interface.

File Transfers

Transmit Files

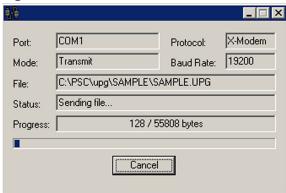
1. Click on the **Transmit Files** button to send files to the portable.

Figure 2: Select File to Transfer Window



- 2. Select a file to transfer and press **Open**.
 - The **File Transfer** window opens.

Figure 3: File Transfer Window

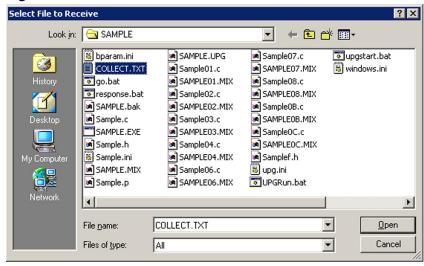


• After the file has been transmitted, the **File Transfer** window closes.

Receive Files

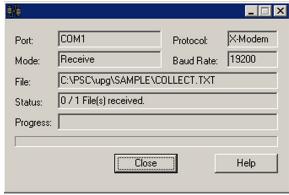
1. Click on the **Receive Files** button to receive files on the portable.

Figure 4: Select File to Receive Window



- 2. Select a file to receive and press **Open**.
 - The **Receive File** window opens.

Figure 5: Receive File Window



• After the file has been received, the **Receive File** window closes.

Host Mode

Host Mode is a method of receiving files using the Z-Modem protocol. It continuously waits for files and receives them using the filenames specified by the sender. Once files have been received, it goes back to waiting for additional files. Click **Cancel** to quit **Host Mode**.

Figure 6: Host Mode Window



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Project Downloads

Project

Use **Project Downloads** to download **EXE** and support files (*.INI or *.TXT) to the PDT.

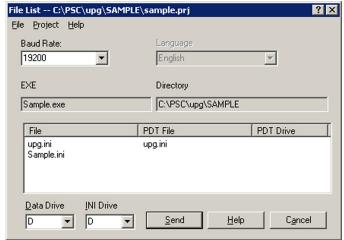
1. Press the **Project** button to open the **Load Project File** window.

Figure 7: Load Project File Window



2. Select a project file (*.prj) and press Open.

Figure 8: File List Window



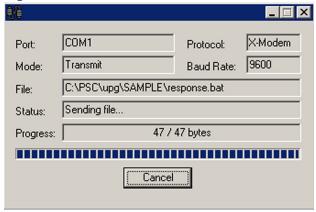
- 3. The downloadable **EXE** file and directory are displayed with a list of files to download.
 - Press **Send**.
 - A dialog appears for actions to be performed on the PDT.

Figure 9: PDT Message Dialog Box



4. Type **LD** on the PDT and press **Enter** once.

Figure 10: Transmit File Window



Each file in the list and the EXE is downloaded.

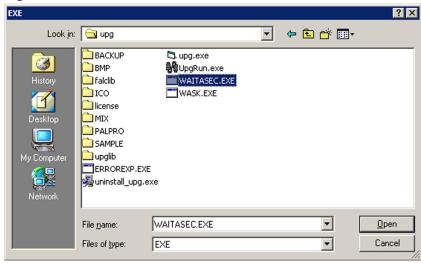
12

EXE

If a UPG DOS EXE program does not have a project file, download the **EXE** directly by completing the following steps:

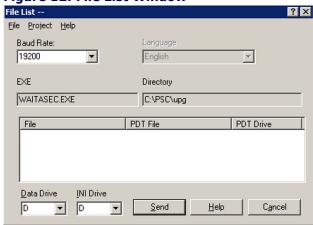
- 1. Press the **EXE** command button.
 - A **Download an EXE** window opens.

Figure 11: Download an EXE Window



2. Select an **EXE** file to download.

Figure 12: File List Window



- 3. The downloadable **EXE** file and directory are displayed with a list of files to download.
 - Press **Send**.
 - A dialog appears for actions to be performed on the PDT.

Figure 13: PDT Message Dialog Box



4. Type **LD** on the PDT and press **Enter** once.

Figure 14: Transmit File Window

₽ ₽			_ 🗆 X		
Port:	COM1	Protocol:	X-Modem		
Mode: File:	C:\PSC\upg\SAMPLE\re	Baud Rate:	13000		
Status:	Sending file	орогос.рас			
Progress:	47 / 47 bytes				
Cancel					

The EXE and each file in the list are then downloaded.

Help

To access online **Help**, click on the **Help** button or press **F1**.

Exit

To exit UPG Runtime, click on the **Exit** button.

Serial Settings

Chapter 3 Contents

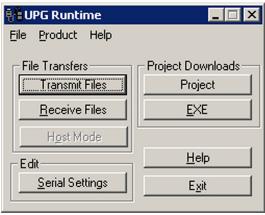
Edit Serial Settings Button General Tab Transfer Tab Logging Tab

Edit Serial Settings Button

Before beginning to program or send data to and from the portable, open the **Setup** form to establish the communication settings for the host PC. Select **Edit** > **Serial Settings** from the menubar to open the form.

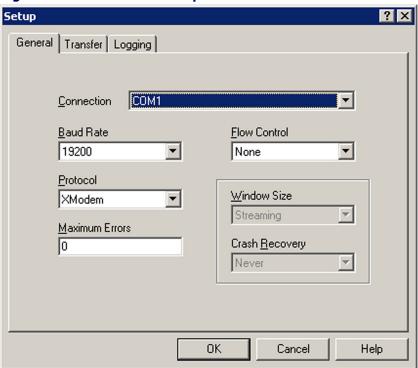
The **Serial Settings** form contains three tabbed sections: **General**, **Transfer**, and **Logging**. Detailed descriptions of each tabbed section follow.

Figure 15: UPG Runtime User Interface



General Tab

Figure 16: File Transfer Setup Definition Form: General Tab



Enter the Connection port for file transfers. Select from the list of Connection detected serial ports or modems. COM1 Connection COM1 СОМ2 **Baud Rate** Select a Baud Rate for serial Baud Rate communications from the pull-down 19200 list. The default value is 19200. 9600 19200 38400 57600 115200 **Protocol** Select the file transfer Protocol to Protocol use for sending and receiving files. ZModem The **Protocol** depends upon what XModem ZModem the Host system requires. The ACK/NAK

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default value is **ZModem**.

XModem does not allow multiple file transfers.

ZModem allows multiple file transfers.

ACK/NAK ACK/NAK does not allow multiple file transfers. Do not use

ACK/NAK with PSC Falcon DOS units.

Maximum Errors Enter the maximum number of **Errors** permitted before a file

transfer is aborted. Range: 1 to 50. 0 specifies no limit to the

number of file transfer errors.

Flow Control Select the mechanism used to

control the flow of data. Sender and receiver must agree on the flow

control method.

Flow Control

None

None

XON/XOFF

RTS/CTS

None No flow control used.

XON/XOFF Software flow control using **XON** and **XOFF** characters to

communicate when to suspend and resume data transfer. Only

available with Z-Modem protocol.

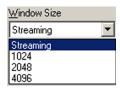
RTS/CTS Hardware flow control that uses Ready to Send (RTS), and Clear

to Send (CTS) serial port lines to communicate when to suspend

and resume data transfer.

Window Size Specifies the amount of data

transmitted before receiving a response from the receiver.



Streaming Sender does not wait for a response before sending all the data.

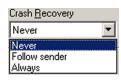
1024-4096 Causes the sender to wait for a response after sending the

specified amount of data.

Crash Recovery Specifies whether or not an attempt

is made to complete a file transfer

at the point of failure.



Never Never attempts to recover from a file transfer.

Follow Follows the sender's **Crash Recovery** and **Overwrite** options.

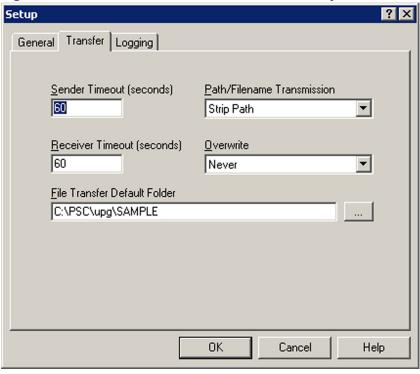
Sender

Always Forces an attempt to recover from a file transfer.

Transfer Tab

This tab establishes file transfer settings. Select the **Transfer** tab.

Figure 17: Transfer Tab of the File Transfer Utility



Sender Timeout Enter the maximum number of seconds to wait for a (Seconds) connection when sending files. A value of o waits indefinitely. **Receiver Timeout** Enter the maximum number of seconds to wait for a connection when receiving files. A value of o waits indefinitely. Path/Filename Enter a Path/Filename Transmission to control how the **Transmission** sender processes the paths and filenames of files to be sent. Only applies to Z-Modem. Sends only the filename (no path) to the receiver. Strip Path **Send Path** Sends the filename with path to the receiver. Specify Allows both the filename and path for each file to be altered Receiver's File prior to being sent to the receiver. Path/Name

Overwrite Select to determine the action the receiver takes when a

received file already exists.

Source Longer or Overwrites the existing file if the received file is longer or

Newer

newei

CRCs Don't Overwrites the existing file if the CRCs of both files don't

Match match.

Append Appends the received file to the existing one.

Always Overwrites the existing file with the one received.

Source Newer Overwrites the existing file if the received file is newer.

Date/Length
Don't Match

Overwrites the existing file if the dates or lengths of both files

don't match.

Never Skips the transfer if the received file already exists.

File Transfer Default Enter the File Transfer Default folder for storing received

files. Use the **Browse** button to locate a new location.

File Transfer Default Folder

C:\PDTFiles

Logging Tab

This tab establishes settings for the communications log. Click the **Logging** tab.

Figure 18: Logging Tab of the File Transfer Utility



Log To File Specifies that the log is to be written to a text file. Log To Screen Specifies that the log is displayed on screen. Append to Log This option becomes available when you select **Log to File**. When enabled, Append to Log adds log information to the end of the log file. If not enabled, new log information replaces the previous log file. Specify the location for storing the communications log. Log Path/ **Filename** If a path is not given, the file is stored in the **Default File Transfer** folder. **Browse** Use the **Browse** button to locate a new log file.

Menus

Chapter 4 Contents

Menubar Overview
File Menu
New Project
Exit
Product Menu
Portable Type
PDT Settings
UPG EXE Settings
Help Menu
Help
About UPG Runtime

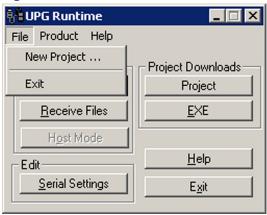
Menubar Overview

The menubar is located just under the top border of the UPG Runtime window. It consists of **File**, **Product**, and **Help** pull-down menus, which are each described in the following sections.

File Menu

Select **File** from the menubar.

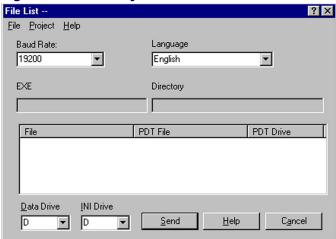
Figure 19: UPG Runtime File Menu



New Project

The **New Project** option is available when the edit switch is activated. Select **File > New Project** to create a new project. This opens a blank **Project** window.

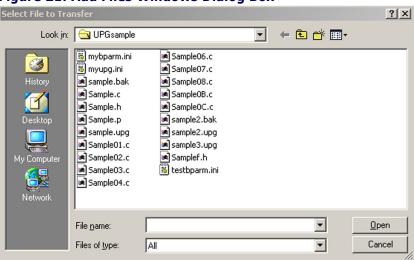
Figure 20: New Project to Build



Editing a File List or Filename

From the main menubar, select the **File** to modify the project file list. Files in the list can be edited, added, and deleted from the list.

Figure 21: Add Files Windows Dialog Box



Select one file from the file list and change the **Send As** name or destination drive.

File menu Select File from the menubar.



Add File Select Add File to display a standard Windows file dialog. Select

multiple files to add. When the download window is redisplayed, the selected files appear the **File** column of the file list.

Edit File Select a file in the file list. Select File > Edit to edit the settings of

the selected file. Refer to Edit Drive Window on page 26.

Delete File Select a file in the file list. Select **File > Delete** to delete the file

from the list.

Get EXE Select **File > Get Exe** to create or modify a UPG project file from

UPG Runtime. If running UPG Runtime, create new project. File > Get EXE becomes available. Use Get Exe to select a UPG generated EXE file using the standard Windows file dialog. The selected file will parse into the EXE and directory settings.

Exit Saves settings, closes the File List form, and returns the user to

the UPG application.

1. Select a file to download to the portable.

• Press the **Open** button.

• Press **Cancel** to cancel the operation.

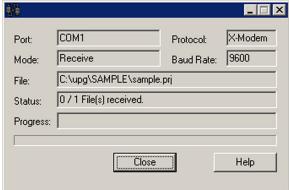
• A dialog appears for actions to be performed on the PDT.

Figure 22: PDT Dialog message



2. Type **LD** on the PDT and press **Enter** once.

Figure 23: Receive File Status Dialog Box



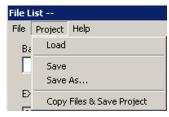
- 3. The **Send File Status** dialog box opens.
 - Press **Close** to stop the download.
 - Press **Help** for more information.

Project Menu

The Project file format is

```
; Comment
/E Program Name
/D Default Text Drive Letter
/I App INI file location
/F Falcon Drive, delimiter (|), Filename
/P Falcon Port
/L Language exe,
```

Project menu Select **File** from the menubar.



Load Select **Load** to load another project file. Use this to download the

EXE with non-standard **INI** or text files. The first time you download the **EXE**, add the extra files and save the project. During subsequent downloads, load the previously saved project file rather than adding the files individually.

file rather than adding the files individually

Saves the current settings to the currently opened project file. If the project file has not been previously saved, the **Save As** dialog box opens

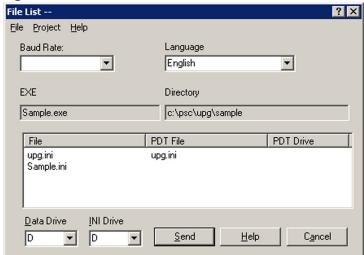
24

Save

Save As... Saves the current settings as a specified filename. A standard windows dialog box opens so that you can choose or enter a new project filename.

Copy Files & Saves the current settings into a project file and then copies the **Save Project** project file, **EXE**, and support files to a new selected project file directory.

Figure 24: File List Definition Form



Baud Rate

Baud rate to transfer the EXE and files in file list. The first time it is activated it will be the current baud rate from Host Settings. After first download view, the Host Settings baud rate changes will not affect download baud rate. This allows separation of baud rate transfers for downloading generic data files VS downloading of projects.

Shows what language is currently selected to run downloaded **EXE**. You can change the selection, however you should normally use UPG to set setting. Runtime users may need to use setting

EXE Name of program being downloaded.

Directory Directory where program is located.

Language

PDT File

File List of files to download. If path is not included then files are

located in the same directory as the program.

Name of file on PDT. Some file names are automatically generated and cannot be changed by the user, specifically: (BPARAMS.INI, UPG.INI, <app>P.INI, and

<app>.INI, if they are present on the list. If PDT File is left blank, the name becomes the filename (minus path).

PDT Drive Name of drive the data file will reside on. Blank setting leaves the

file at the default drive specified for the file type. INI files must

the INI Drive setting.

Data Drive This is the default drive for the data files. It is also the drive from

which the **EXE** is ran (the **EXE** is not stored on this drive).

INI Drives This is the drive location for all **INI** files, with the exception of

BPARAMS.INI (the Falcon autoexec looks for this file on

the c drive).

Send Sends files.

Cancel Select to cancel changes to current settings and return to the

UPG application.



UPG will not let the name or drive of certain INI support files to be changed (For example: BPARAMS.INI, UPG.INI, <app>.INI, and <app>P.INI).

INI files cannot have the drive target changed file by file.

INI files can not be changed or have the INI drive overridden.

All files in the file list can be added or edited, not just INI files.

To edit a non-INI file and open the **Edit Drive** form, double-click on the file.

Figure 25: Edit Drive Window



Filename Enter a new path and filename. If the path is in the directory as

the project, entering a path is optional

PDT filename Enter a new PDT filename for the file on the PDT.

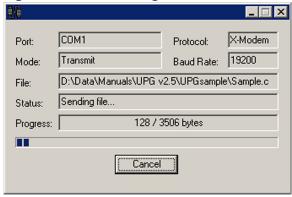
Drive Click on the pull-down menu to edit the drive.

Drive on PDT the file is to automatically be downloaded to.

If left blank then the data or INI data drive controls where the file

is downloaded.

Figure 26: Transferring File



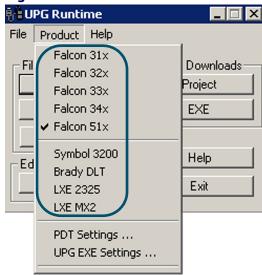
Exit

To quit UPG Runtime, select **Exit** from the **File** menu.

Product Menu

1. Select **Product** from the menubar.

Figure 27: UPG Runtime Product Menu



2. Select a **Portable Type**, **PDT Settings**, or **UPG EXE Settings** to modify from the pull-down menu.

Portable Type

These are the known portables that UPG Runtime will correctly work with.

Falcon 31x (PSC)

Falcon 32x (PSC)

Falcon 33x (PSC)

Falcon 34x (PSC)

Falcon 51x (PSC)

Symbol 3200

Brady DLT

LXE 2325

LXE MX2

PDT Settings

Refer to PDT Settings on page 29 for a complete description of PDT Settings.

UPG EXE Settings

Refer to <u>UPG EXE Settings on page 53</u> for a complete description of UPG EXE Settings.

Help Menu

Help

The Help menu accesses the on-line help provided with the UPG Runtime application.

About UPG Runtime

This menu item provides information regarding the version of UPG Runtime and copyright information.

PDT Settings

Chapter 5 Contents

Overview

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ScanParameters: Code 93

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ScanParameters: Power

ScanParameters: Standard 2/5

ScanParameters: Scanner

ScanParameters: Scanner
ScanParameters: Sound

ScanParameters: UPC-A

Scan rameters: UFC-A

ScanParameters: UPC-E

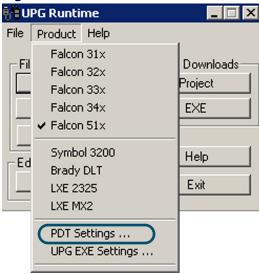
ScanParameters: UPC Extensions

ScanParameters: Video

Overview

Select **Product > PDT Settings** from the menubar.

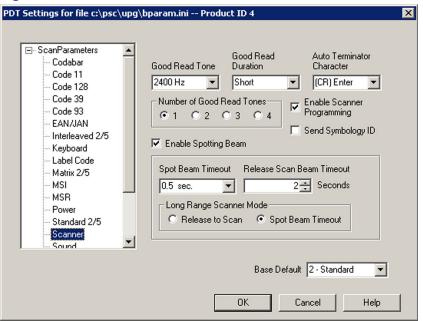
Figure 28: UPG Runtime Product Menu



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Base Default Setting for all ScanParameters

Figure 29: ScanParameters Definition Form



The setting controls the values for all the scan parameters in the **PDT Settings** definition form. Changing the value of this setting will update all fields in all scan parameters views to the new base default selected.

Base Default

Select an option from the **Base Default** pull-down list at the bottom right side of the form.

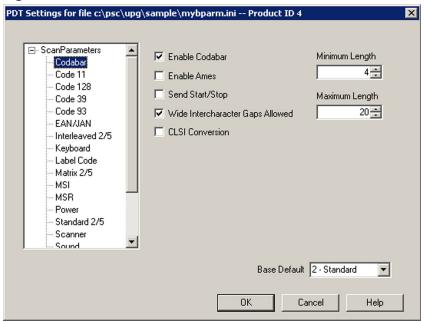
0 - All off 1 - All On 2 - Standard (default)



Descriptions and a view of each of the PDT Settings Definition form follow in the order they appear in the ScanParameters list.

ScanParameters: Codabar

Figure 30: ScanParameters: Codabar

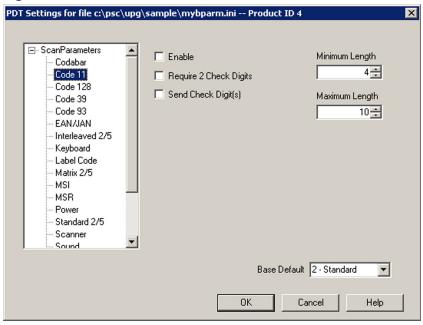


Enable Codabar Enables on all checkbox fields. **Enable Ames** Enables on all checkbox fields. Enables on all checkbox fields. Send Start/Stop Wide Intercharacter Gaps Enables on all checkbox fields. Allowed **CLSI Conversion** Enables on all checkbox fields. Minimum Length Minimum length for the bar code in order for it to scan. Click the **up/down** arrows or enter a whole integer into the field. **Maximum Length** Maximum length for the bar code in order for it to scan. Click the **up/down** arrows or enter a whole integer into

32 UPG Runtime v2.5

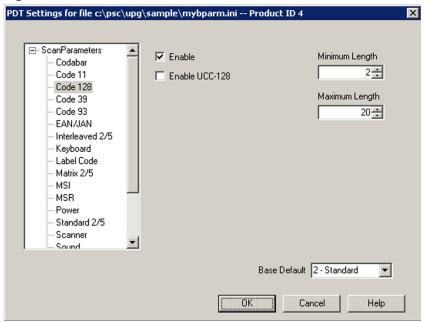
the field.

Figure 31: ScanParameters: Code 11



Enable
 Enables on all checkbox fields.
 Require 2 Check Digits
 Requires two check digits for the bar code to scan.
 Send Check Digits
 Includes the check digit in the scan string.
 Minimum Length
 Minimum length for the bar code in order for it to scan. Click the up/down arrows or enter a whole integer into the field.
 Maximum Length
 Maximum length for the bar code in order for it to scan. Click the up/down arrows or enter a whole integer into the field.

Figure 32: ScanParameters: Code 128



Enable Enables on all checkbox fields.

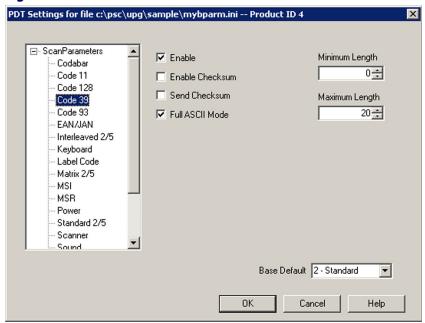
Enable UCC-128 Enables on all checkbox fields.

Minimum Length Minimum length for the bar code in order for it to scan. Click the up/down arrows or enter a whole integer into the field.

Maximum Length Maximum length for the bar code in order for it to

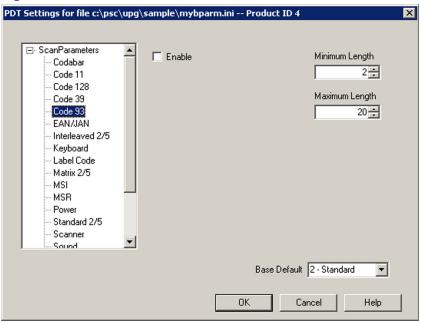
scan. Click the **up/down** arrows or enter a whole integer into the field.

Figure 33: ScanParameters: Code 39



Enable Enables on all checkbox fields. **Enable Checksum** Enables on all checkbox fields. Send Checksum Enables on all checkbox fields. **Full ASCII Mode** Enables on all checkbox fields. **Minimum Length** Minimum length for the bar code in order for it to scan. Click the **up/down** arrows or enter a whole integer into the field. **Maximum Length** Maximum length for the bar code in order for it to scan. Click the up/down arrows or enter a whole integer into the field.

Figure 34: ScanParameters: Code 93



Enable Enables on all checkbox fields.

Minimum Length Minimum length for the bar code in order for it to

scan. Click the $\ensuremath{\text{\textbf{up/down}}}$ arrows or enter a whole

integer into the field.

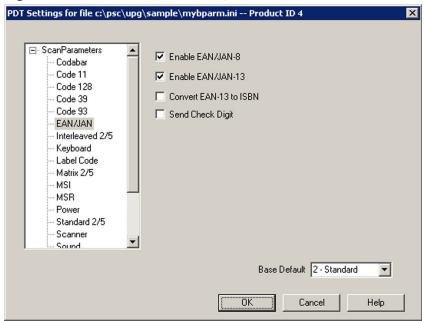
Maximum Length Maximum length for the bar code in order for it to

scan. Click the **up/down** arrows or enter a whole

integer into the field.

ScanParameters: EAN/JAN

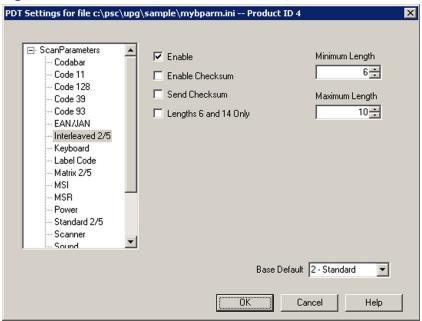
Figure 35: ScanParameters: EAN/JAN



Enable EAN/JANEnables on all checkbox fields.Enable EAN/JAN 13Enables on all checkbox fields.Convert EAN-13 to ISBNEnables on all checkbox fields.Send Check DigitEnables on all checkbox fields.

ScanParameters: Interleaved 2/5

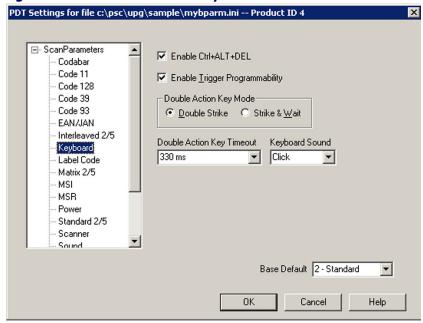
Figure 36: ScanParameters: Interleaved 2/5



Enable Enables on all checkbox fields. **Enable Checksum** Enables on all checkbox fields. **Send Checksum** Enables on all checkbox fields. Enables on all checkbox fields. Lengths 6 & 14 only **Minimum Length** Minimum length for the bar code in order for it to scan. Click the up/down arrows or enter a whole integer into the field. **Maximum Length** Maximum length for the bar code in order for it to scan. Click the up/down arrows or enter a whole integer into the field.

ScanParameters: Keyboard

Figure 37: ScanParameters: Keyboard



Enable Ctrl+ALT+DEL Allows the user to use <CTRL>+<ALT>+

key combination to reboot the portable. Enables on

all checkbox fields.

Enable Trigger Programmability Enables on all checkbox fields.

Double Action Key Mode Select one of the following:

Double Strike Strike & Wait

Double Action Key Timeout Select from the pull-down list:

330 ms. (default)

385 ms.

440 ms.

495 ms.

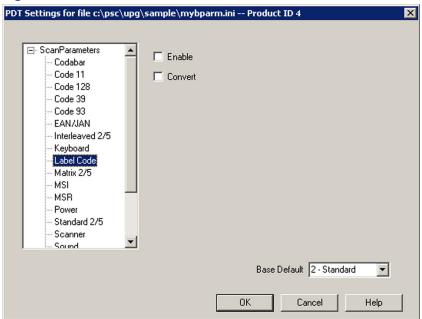


Double Action Key Mode and Double Action Key Timeout are both used to control keyboard entry on the Falcon 33x and 34x portables.

For more information on Double Action Key Mode and Double Action Key Timeout, refer to the Falcon *Portable DOS Terminal User's Guide* and the Falcon Portable DOS Terminal Advanced User's Guide.

ScanParameters: Label Code

Figure 38: ScanParameters: Label Code

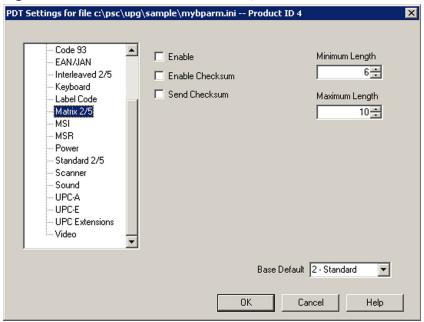


Enable Enables on all checkbox fields.

Convert Enables on all checkbox fields.

ScanParameters: Matrix 2/5

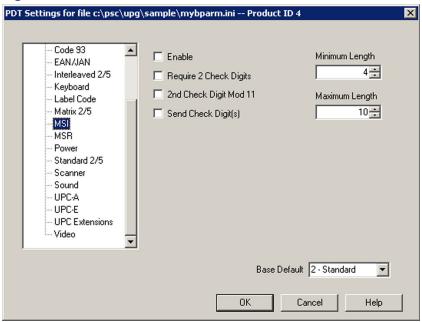
Figure 39: ScanParameters: Matrix 2/5



Enable
 Enables on all checkbox fields.
 Enables on all checkbox fields.
 Send Checksum
 Enables on all checkbox fields.
 Minimum Length
 Minimum length for the bar code in order for it to scan. Click the up/down arrows or enter a whole integer into the field.
 Maximum Length
 Maximum length for the bar code in order for it to scan. Click the up/down arrows or enter a whole integer into the field.

ScanParameters: MSI

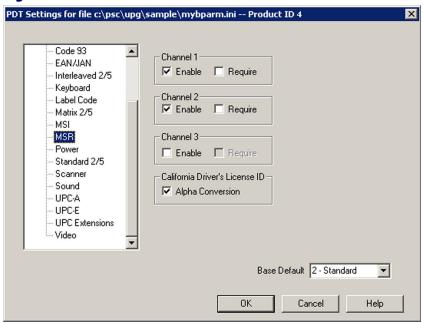
Figure 40: ScanParameters: MSI



Enable Enables on all checkbox fields. **Require 2 Check Digits** Requires two check digits for the bar code to scan. 2nd Check Digit Mod 11 Enables on all checkbox fields. Send Check Digit(s) Includes the check digits in the scan string. **Minimum Length** Minimum length for the bar code in order for it to scan. Click the **up/down** arrows or enter a whole integer into the field. **Maximum Length** Maximum length for the bar code in order for it to scan. Click the up/down arrows or enter a whole integer into the field.

ScanParameters: MSR

Figure 41: ScanParameters: MSR



Channel 1 Select one or both checkboxes to enable:

Enable Select to enable Channel 1.

Require Select to require Channel 1.

Channel 2 Select one or both checkboxes to enable:

Enable Select to enable Channel 2.

Require Select to require Channel 2.

Channel 3 Select one or both checkboxes to enable:

Enable Select to enable Channel 3.

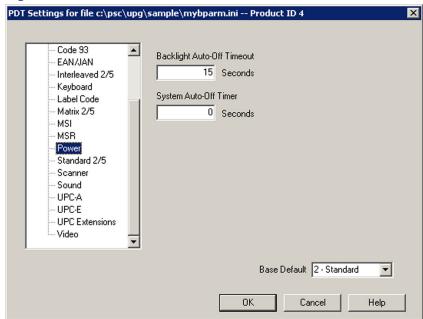
Require Select to require Channel 3.

California Driver's License ID

Alpha Conversion Select to enable Alpha Conversion.

ScanParameters: Power

Figure 42: ScanParameters: Power



Backlight Auto-Off Timeout

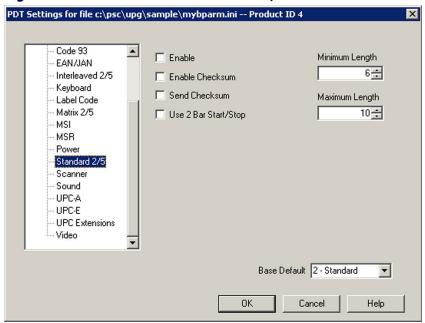
Number of seconds the backlight stays on if there is no other entry is made.

System Auto-Off Timer

Number of seconds unit stays on with no activity. After the time has expired, the unit will shut off automatically.

ScanParameters: Standard 2/5

Figure 43: ScanParameters: Standard 2/5



Enable
Enable Checksum
Send Checksum
Use 2 Bar Start/Stop
Minimum Length

Maximum Length

Enables on all checkbox fields.

Enables on all checkbox fields. Enables on all checkbox fields.

Enables on all checkbox fields.

Minimum length for the bar code in order for it to scan. Click the **up/down** arrows or enter a whole

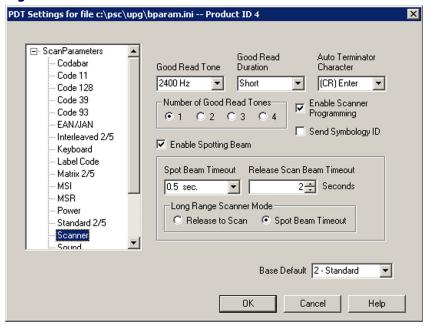
integer into the field.

Maximum length for the bar code in order for it to scan. Click the **up/down** arrows or enter a whole

integer into the field.

ScanParameters: Scanner

Figure 44: ScanParameters: Scanner



Good Read Tone Select the frequency for the tone that will sound when a barcode is scanned successfully. Select from the pull-down list: 2400 Hz (default), 2600 Hz, 2800 Hz, 3000 Hz, 3200 Hz, 3400 Hz, 3600 Hz, 3800 Hz. **Good Read Duration** Select how long the good read tones will sound. Select from the pull-down list: **short** (default), medium short, medium long, long. **Auto Terminator Character** Select the character to append to scanned data. Select from the pull-down list: (CR) Enter (default), Tab, None. **Number of Good Read Tones** Select the number of times to sound the good read tone when a bar code is scanned. Select one of the following: 1 (default), 2, 3, or 4 **Enable Scanner Programming** Allows user to change parameter settings using bar codes provided in the Falcon Users' Guide. Send Symbology ID Includes symbology indentifying character as a

prefix on scanned data.

Enable Spotting Beam Allows the scanner to produce a spot (instead of a

scan line) in order to aim the scanner. This is used

for long range scanners.

Spot Beam Timeout Number of seconds the spotting beam stays active

before changing to a scan line.

Select from the pull-down list: 0.25, 0.50

(default), 1.0, 1.5, 2.0.

Release Scan Beam Timeout Number of seconds the scan beam will continue

without a good read before it shuts off.

Long Range Scanner ModeControls how scanning is done when using a long

range scanner. Select one of the following:

Release to Scan: Press the trigger to get a spotting beam. Release the trigger to scan.

Spot Beam Timeout: Press the trigger to get a spotting beam. Unit automatically scans after

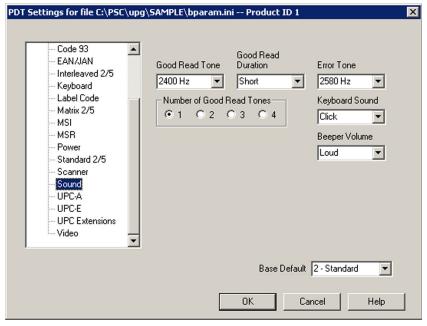
spot beam timeout expires.



If the portable does not have a long range scanner, the spotting beam and other long range scanner settings are ignored.

ScanParameters: Sound

Figure 45: ScanParameters: Sound



Good Read Tone Select the frequency for the tone that will sound when a barcode is scanned successfully. Select from the pull-down list: 2400 Hz (default), 2600 Hz, 2800 Hz, 3000 Hz, 3200 Hz, 3400 Hz, 3600 Hz, 3800 Hz. Good Read Duration Select how long the good read tones will sound. Select from the pull-down list: short (default), medium short, medium long, long. **Number of Good Read Tones** Select the number of times to sound the good read tone when a bar code is scanned. Select one of the following: 1 (default), 2, 3, or 4 **Frror Tone** Select the frequency for the predefined error tone. Select from the pull-down list: 2400 Hz, 2580 Hz (default), 2770 Hz, 3000 Hz, 3270 Hz, 3600 Hz, 3600 Hz, 4000 Hz, 4520 Hz. **Keyboard Sound** Select the sound to be emitted when a key is pressed. Select from the pull-down list: Off,

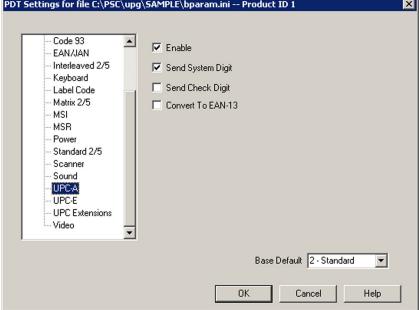
Click (default), Beep.

Beeper Volume

Select the volume level for the PDT speaker. Select from the pull-down list: Off, Quiet, Low, Medium Low, Medium, Medium High, High, Loud (default), One level higher, One level lower

ScanParameters: UPC-A

Figure 46: ScanParameters: UPC-A PDT Settings for file C:\PSC\upg\SAMPLE\bparam.ini -- Product ID 1



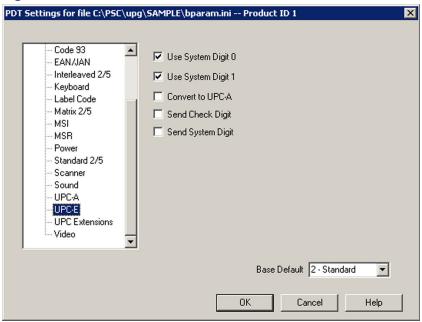
Enable Enables on all checkbox fields. **Send System Digit** Enables on all checkbox fields. **Send Check Digit**

Includes the check digits in the scan string.

Convert to EAN-13 Enables on all checkbox fields.

ScanParameters: UPC-E

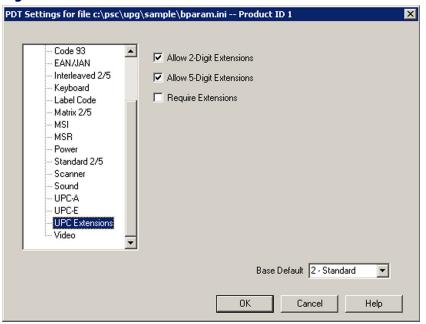
Figure 47: ScanParameters: UPC-E



Use System Digit 0 Enables on all checkbox fields.
Use System Digit 1 Enables on all checkbox fields.
Convert to UPC-A Enables on all checkbox fields.
Send Check Digit Includes the check digit in the scan string.
Send System Digit Enables on all checkbox fields.

ScanParameters: UPC Extensions

Figure 48: ScanParameters: UPC Extensions



Allow 2-Digit Extensions

Allow 5-Digit Extensions

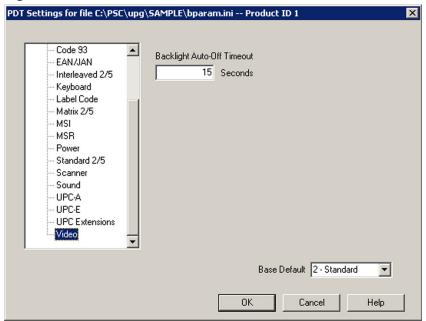
Select checkbox to enable.

Select checkbox to enable.

Select checkbox to enable.

ScanParameters: Video

Figure 49: ScanParameters: Video



Backlight Auto-Off Timeout

Number of seconds the backlight stays on if there is no other entry is made.

Click **OK** after defining each **ScanParameter**. Or, click **Cancel** to exit without saving changes.

UPG EXE Settings

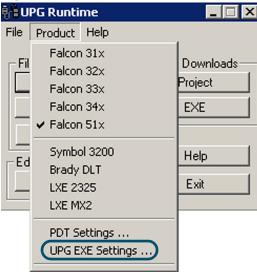
Chapter 6 Contents

Overview General Tab Serial Tab

Overview

Select **Product** > **UPG EXE Settings** from the menubar.

Figure 50: UPG Runtime Product Menu



General Tab

UPG Exe Settings ? X General Serial General Yes No-Keys ✓ Allow Quit on Ctrl+C Keys +1Y Upper Case Input Only -0N Number Keys on Menu Text Text ✓ Hide Cursor Y N Date/Time Formats Text Date True %m/%d/%Y Time False %H:%M:%S F Miscellaneous ESC Key Name ESC Count lesc: 12 ☐ Shell to DOS Protocol

Figure 51: UPG EXE Settings Definition Form: General Tab

General The **General** section controls the basic or general properties of the UPG application.

Allow Quit Select to allow user to press <CTRL>+<C> to exit from DOS from any location when running on the portable.

0K

Cancel

Help

When running in a Windows DOS box, this setting is ignored and <CTRL>+<C> is always allowed.

Enable this setting when testing the application on the portable.

Disable it when distributing the application.

Upper Case Select to force all alpha characters to upper case everywhere in **Input Only** the **EXE** program. The default is disabled.

Number Keys on Menu

Specifies whether or not the number keys on the portable can function as <F> keys on menus. For example, if the menu has an <F8> hotkey, instead of pressing <F8> on the portable, press 8 on

the number pad to execute the **<F8>** feature.

This also allows single letter to function as **<CTRL>** letter combination. For example: if the menu has a <CTRL>+<M> hotkey, instead of pressing <CTRL>+<M>, press <M> alone.

Select to enable allowing number keys on the menu in the **EXE**

program.

Hide Cursor Select to hide the blinking cursor in the EXE program.

Yes Keys

Specify which keys can be pressed to enter a **Yes** value at a **Yes/No** prompt. UPG defaults to **+1Y**, which means the user can either press the <+>, <1>, or <Y> keys to enter a Yes value. Edit **Yes Keys** to modify which keys can be pressed for a **Yes** value.

Text

Enter a value to display when the user receives a **Yes** prompt, such as when confirming an operation. Default value is Y.

No Keys

Specify the keys to press to enter a **No** value at a **Yes/No** prompt. UPG defaults to **-ON**, which means the user can either press the <->, <0>, or <N> keys to enter a **No** value. Edit **No Key**s to modify which keys can be pressed for a **No** value.

Text

Enter a value to display when the user receives a **No** prompt, such as when declining an operation. Default value is N.

Date/Time Formats

Allows definition of 10 character date and time formats.

Date

Sets the date format used within the portable application (affects both entered values and time stamping). UPG defaults to the Standard US date format (m/8d/8y).

To use European date formats, change to %d/%m/%y. Use an

uppercase **Y** to specify a 4-digit year (%**m**/%**d**/%**Y**).

Time

Enter the **Time** format. Sets the time format used with the portable application (affects both entered values and time stamping). UPG defaults to %H: %M: %S.

To exclude the seconds from the time format, edit to: %H: %M.

Text

No longer in use. No longer in use.

True False

No longer in use.

Miscellaneous

ESC Key No longer in use. A hold-over from when **<ESC>** was not labeled:

Name <ESC>.

ESC Count Enter the number of times **<ESC>** must be pressed in order to exit

the form. Use this option to provide a hidden mechanism for developers and administrators to exit forms that you do not wish users

to be able to exit. A value of ${\bf 0}$ disables the <**ESC>** key.

Protocol Defines what protocol to use for a transfer session. – **z** is used for

ZModem and -x is used for XModem.

Shell to DOS This option controls how the file transfer application

(XFER.EXE) is executed.

Enable this checkbox to temporarily unload the application before executing the file transfer. This may be necessary with large applications if there is insufficient memory to run the file transfer

with the application still loaded into memory.

Serial Tab

By default, UPG uses the transfer program **XFER** on the Falcon PDT. However, there are situations when the user must use property transfer programs. Along with the transfer program name, UPG must know the command line flags in order for the program to function.

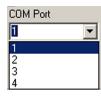
UPG Exe Settings ? X General Serial Direct Modem COM Port COM Port Baud Rate Baud Rate 38400 9600 Modem Connection Settings & Cmds Iransfer Program Cmds EXE Name Use Modem File Modem XFER Ιä l/m Flow Baud Port MDM File Name 761 /ь Host Dial Code Auto Answer Send Recieve lÆ 1/1 ATDT ADS0=1 Overwrite: Always Never Telephone Number **|**/o 707 Other Modem Configuration /w1024 /e200 0K Cancel Help

Figure 52: UPG EXE Settings: Serial Tab

Direct

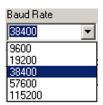
The **Direct** section of the **UPG.INI** file contains information about direct serial communications (using a cable instead of a modem). Select a value from the pull-down list:

COM Port



Sets the portable **COM** port to be used for direct connect file transfer sessions between the portable and host.

Baud Rate



Sets the baud rate for file direct connect transfer sessions between the portable and host PC. UPG defaults to the most reliable transfer rate based on the target portable selected in the Portable menu. If this entry is modified, check the portable hardware documentation for supported baud rates.

Modem

The **Modem** section contains information about modem communications.

COM Port



Sets the COM port to be used for modem file transfer sessions between the portable and host.

Baud Rate



Sets the baud rate for modem file transfer sessions between the portable and host PC. Defaults to the most reliable transfer rate based on the target portable selected in the **Portable** menu. Check the portable hardware documentation for supported baud rates.

Cmds

Transfer Program Enter the option as it would be - Transfer Program Cmds entered on the DOS command line.

The default settings are those used by XFER. Refer to the Falcon Portable Data Terminals Advanced User's Guide (available at www.pscnet.com) for more information on XFER and applying transfer program flags.



EXE Name Specifies the name of the communications utility to be used for

transferring files between the portable and host PC. UPG defaults to **XFER**. (Extension not required.) Change the **XFER** Program entry according to an added transfer utility: **XFER** supports

ZModem and XModem.

Flow This flag specifies the flow control to be used. It is ignored if

XModem is being used. **/f1** (default).

Flow control is a mechanism by which the sender and receiver of serial data coordinate their communication. The receiver has to let the sender know when it is ready to receive data. This can be done in software (XON/XOFF) or in hardware (RTS/CTS). Software flow control uses two characters - XON and XOFF. When the receiver cannot accept data because buffers are full or other activities are taking precedence, it transmits an XOFF character to tell the sender to stop. When the receiver is ready to accept data again, it transmits an XON character to tell the sender to resume sending data. Hardware flow control uses two lines (RTS and CTS) in the serial cable. When the sender wishes to send data it activates the Request to Send (RTS) line. If the receiver is ready to receive data it activates the Clear to Send (CTS) line.

The Falcon 33x and 34x portables do not have RS-232 serial ports with RTS and CTS lines. Therefore, RTS/CTS flow control is not available to these portables.

available to these portables

Baud Do not include the baud rate in this field. The baud rate will be

appended to this option when the command line is created.

/b (default)

Port / (default)

Send The send flag used for the communications utility. /-t (default).

Receive The receive flag for the communications utility. /-r (default).

Host The host mode flag. /-r (default).

Overwrite This specifies the overwrite flag.

Always This flag specifies that a file will overwrite an existing file. /o

(default)

Never This flag specifies that a transferred file will not overwrite an

existing file. /o7 (default)

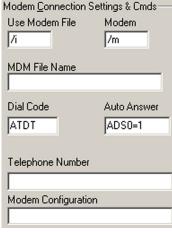
Other This parameter is used to specify additional parameters.

/w1024 /e200 (default)

Modem Connection

The default settings specify a 1024 byte window size and Settings & Cmds specify a maximum error count of 200.

> Enter the options as it would be entered on the DOS command line.





Modem connections depend upon modem speed and are usually much slower than a direct connection. Achievable modem baud rates may be much lower than the rate selected based upon telephone line conditions (static or "noise" causes the modem to lower the baud rate to compensate for poor line conditions).

Use Modem File

This parameter indicates that a modem configuration file will be used. Enter the name of the file in the MDM File Name field. If no modem configuration file is specified, this parameter is ignored. Default = /i

Modem

This flag enables modem communications. XFER uses -m to activate the modem.

MDM File Name

Enter the name of the modem configuration file you wish to use.

Dial Code

Enter the dialing string (using standard AT commands) that the portable application should use to initiate a modem connection

with a host PC. Defaults to ATDT.

Auto Answer Enter the answer string (using standard AT commands) that the portable application should use to receive a modem connection with a host PC. Defaults to ATS0=1.

Telephone Number

Enter the phone number that will be dialed by the portable when using a modem to initiate a communications session to a host PC.

Modem ConfiguEnter AT modem control codes if you don't wish to use a modem configuration file. Refer to your modem's user's manual.

ration



If only a direct connection is used, it is not necessary to modify any of the modem settings.

For more information on **XFER**, refer to **XFER**. **EXE** in the *Falcon Portable DOS Terminal Advanced User's Guide*.

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