

System Utilities

This appendix discusses the system utilities¹ and how to install them if they were not pre-loaded at the factory. The system utilities diskette(s) include installation programs for the following utilities:

- 0V suspend
- PCMCIA
- Hard disk drive physical format
- SVGA
- Touchpad
- Enhanced IDE
- Audio
- CD-ROM
- File transfer

The following sections discuss these utilities, how to install them, and how they work.

¹ System utilities may differ according to system configuration.

D.1 Zero-Volt (Hibernation) Suspend Utility

This program locates free continuous disk space and allocates it to save base and extended memory as well as system registers. It prepares the hard disk for the suspend-to-disk feature, including formatting and marking of bad blocks.

When the system enters suspend mode (e.g., when you press the Suspend button), the system saves all memory images and system status information into the disk space. Press the power switch to return to the status prior to entering suspend mode. If you do not run this program to allocate disk space, this function will not work. Therefore, it is advisable to run this program before using the system.

Syntax

```
PHDISK [options]
```

where options:

<code>/CREATE [size]</code> <code>(/FILE or /PARTITION)</code>	Create STD file or partition.
<code>/DELETE</code> <code>(/FILE or /PARTITION)</code>	Delete existing STD file or partition.
<code>/INFO</code>	Information on STD disk area(s).
<code>/REFORMAT /PARTITION</code>	Reformat existing STD partition.



If PHDISK is invoked without any parameters, it displays the amount of disk storage required for the suspend to hard disk feature and the current amount of storage available in the hard disk.

Table D-1 PHDISK Option Descriptions

Option	Description
/CREATE [size] /FILE	Create a suspend to disk file SAVE2DSK.BIN of a specified size (in kilobytes). If the size parameter is not specified, PHDISK will allocate the minimum size required for the suspend to disk feature.
/CREATE [size] /PARTITION	Create a suspend to disk partition of a specified size (in kilobytes). If the size parameter is not specified, PHDISK will allocate the minimum size required for the suspend to disk feature. This option will mark out any bad blocks found during the format operation. The exact amount of disk storage required for the suspend to disk may be calculated as follows: Required storage = physical system memory size + video memory size(1024K) + 1K.
/REFORMAT /PARTITION	Reformat an existing suspend to disk partition. Use this option if a previous suspend to disk terminated in a read or write error. The option will also mark out any bad blocks found during the format operation.
/DELETE /FILE or /DELETE /PARTITION	Delete the suspend to disk file or partition or and reclaim any space used by this feature. Use this option conjunction with /CREATE to change the size of the suspend to disk.
/INFO	Display extended information about the suspend to hard disk.

Follow these steps to reserve a partition for the suspend-to-disk feature:

1. Insert the system utilities diskette into the diskette drive.
2. At the DOS prompt, type the following:

```
C:\> A:\PHDISK\PHDISK [/CREATE...] e
```
3. Follow the screen instructions to complete the operation.

D.2 PCMCIA Utility

Since the notebook's compact size sacrifices expandability for portability, the PCMCIA (Personal Computer Memory Card Industry Association) was formed to provide expansion room for notebooks. PCMCIA cards give you the expansion capabilities that add-on cards provide for desktop PCs. Such cards include network cards, fax/data modem cards, memory cards, SCSI cards, etc.

The PCMCIA utility prepares the PCMCIA slots on your notebook for use with the system. Follow these steps to initialize your PCMCIA slots and install the PCMCIA utility.

1. Insert the system utilities diskette into the diskette drive.
2. At the DOS prompt, type the following:

```
C:\> A:\PCMCIA\INSTALL    e
```

3. Follow the screen instructions to complete the operation.

This installation program checks your PCMCIA slots and copies the DOS-based card manager and if needed, the Windows card manager. If the Windows option was selected, a program group and applications for the card manager are created in Windows.

D.3 HDFORM Utility

The HDFORM utility allows you to perform a physical format or low-level format operation on your hard disk. Physical formatting arranges, optimizes and prepares a hard disk for initial use.

Follow these steps to perform a physical format on your hard disk:

1. Insert the system utilities diskette into the diskette drive.
2. At the DOS prompt, type the following:

```
C:\> A:\HDFORM\HDFORM    e
```
3. Follow the screen instructions to complete the operation.



The hard disk has been physically formatted by the manufacturer. Do not reformat the hard disk unless absolutely necessary. Physical formatting erases EVERYTHING on the hard disk. Make backup copies of important files before you proceed with physical formatting.

D.4 SVGA Drivers and Utilities

The SVGA display driver setup program allows you to install display drivers for Windows applications and a number of DOS-based applications that lets you to take advantage of the onboard VGA chip's capabilities.

Follow these steps to install the display drivers:

1. Insert the system utilities diskette into the diskette drive.
2. At the DOS prompt, type the following:

```
C:\> A:\setup    e
```
3. Follow the screen instructions to complete the installation.

D.5 Touchpad Driver Setup

The touchpad works with most mouse drivers, but the bundled touchpad driver supports special functions that work uniquely with the touchpad.

D.5.1 Installing the Touchpad Driver

1. Insert the touchpad driver installation disk into the diskette drive.
2. At the DOS prompt, type the following:

```
C:\> a:\install e
```

Follow the screen instructions to complete the installation.

D.5.2 Configuring the Touchpad

You can configure the touchpad through DOS or by using the Touchpad utility in Windows.

DOS

To see a list of the parameter settings and their descriptions, type the following at the DOS prompt:

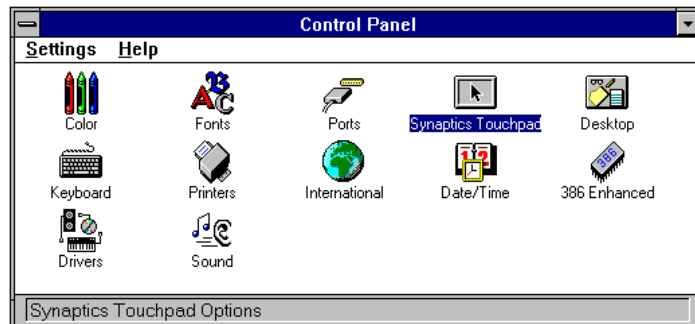
```
C:\> syntouch\syntax /? e
```

You may run the touchpad driver with these parameters.

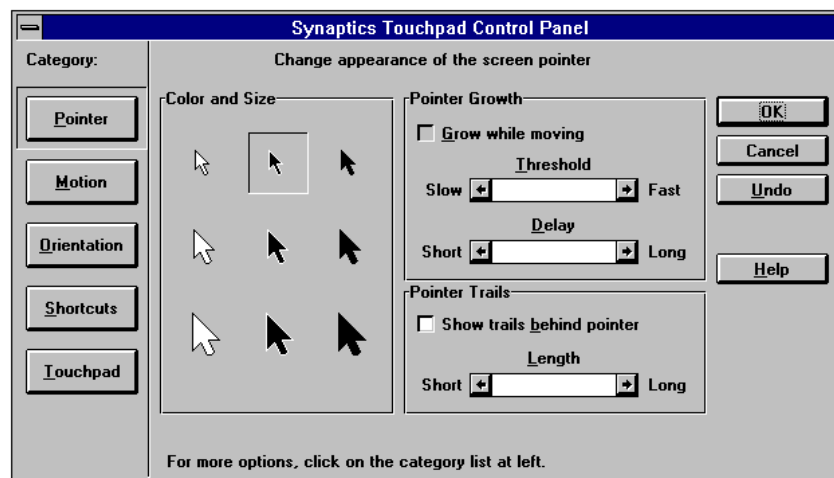
Windows

Follow these steps to configure the touchpad under Windows:

1. In Windows, double-click on the Control Panel indicator of the Main program group. The Control Panel window appears.



2. Double-click on the Synaptics Touchpad utility indicator to configure the touchpad. The Synaptics Touchpad Control Panel dialog box shows.



You can configure different aspects of the touchpad including the pointer, motion and orientation as well as touchpad shortcuts. Refer to the online help for details.

D.6 Enhanced IDE Driver Setup

The enhanced IDE driver lets you to connect up to four IDE devices, including hard disk and IDE CD-ROM drives. You will need to install this utility to access any IDE devices you install in the optional docking station.

Follow these steps to install the enhanced IDE driver and utility:

1. Insert the IDE driver installation disk in the diskette drive.
2. At the DOS prompt, type the following:

```
C:\> a:\install e
```

Follow the screen instructions to complete the installation. Please refer to readme file for details.

D.7 Audio Driver Setup

The notebook has onboard 16-bit audio feature that allows you to experience stereo-quality sound.

Follow these steps to install the audio drivers and utilities:

1. Insert the audio driver installation disk (1 of 2) in the diskette drive.
2. At the DOS prompt, type the following:

```
C:\> a:\install e
```

Follow the screen instructions to complete the installation. Please refer to readme file for details.



When prompted, select 240h as your I/O base address.

D.8 CD-ROM Driver Setup

After installing the CD-ROM drive module into the notebook, you need to install the CD-ROM driver. Follow these steps to install the CD-ROM drivers:

1. Insert the CD-ROM installation diskette in the diskette drive.
2. At the DOS prompt, type the following:

```
C:\> A:\INSTALL  e
```

3. In the CD-ROM software installation menu, select Secondary (170h) as the I/O port address.

Follow the screen instructions to complete the installation.



Remember to reboot the system after installation for the changes to take effect.

D.9 Puma TranXit Quick Reference Guide

D.9.1 Introducing TranXit

TranXit™ for Windows is the fastest and easiest way to coordinate and transfer files between two desktop PCs, notebooks and subnotes. TranXit uses infrared or cable links to perform all your file maintenance tasks without requiring you to exit Windows or copy files to a floppy disk.

In addition to transferring data between two computers, TranXit lets you copy, move and delete files or create files and delete directories on a remote computer. Best of all, TranXit's interface was designed with one major consideration: YOU! You won't believe how simple TranXit is to use!

Here are a few of TranXit's features:

- Synchronizes drives and directories on two computers with a click of a mouse
- Performs file and directory functions remotely with an infrared, serial cable, or parallel cable link
- Installs itself remotely on desktops, notebooks, and sub-notebooks from your host computer without requiring a floppy diskette
- Runs in the background, allowing you to transfer or synchronize large amounts of data while you work on other applications
- Includes a comprehensive and context sensitive on-line Help system

D.9.2 Installing TranXit

Your copy of TranXit is licensed to run on two computers. TranXit may be preinstalled on one or both of your computers. You can install TranXit directly from the installation diskette.

To install TranXit on a computer with the Installation Diskette:

1. Insert the TranXit install diskette into the computer's floppy disk drive.
2. Start Windows, if it is not already started.
3. Choose *Run* from the Program Manager File menu.
4. Type `a:\setup` (or `b:\setup`, if you are using the B drive) and select *OK* or press *e*.
5. Follow the onscreen instructions.

The TranXit Setup dialog box lists these default setup options:

- Install the files in the C:\TRANXIT directory.
- Install all parts of the program, including the on-line Help file and the Remote Installation files.

If you wish, you can enter the name of a different directory. You can also deselect the Remote Installation or Help features, if you do not want to install them.

D.9.3 Connecting the Two Computers

After you attach the cable or infrared devices and install TranXit on both computers, you can connect the computers for data transfer.

To set up the connection:

1. On **BOTH** systems, choose *Setup* from the *Connection* menu.

2. The *Configure Connection Settings* dialog box lets you select what kind of connection you will use to transfer files between your two computers. Select *Serial Cable*, *Parallel Cable*, or *Infrared*. If you select *Change Connection Settings*, you will be prompted to select other information, such as the port number, baud rate, and whether you wish to use *Turbo Mode*. Turbo Mode increases performance, however you may notice a significant decrease in mouse usability during data transmission. If you plan to transfer large amounts of data in the background while working on other applications, we recommend you not use Turbo Mode. You can also select the infrared devices that you will use for the connection. In most cases, you should select the highest baud rate available for your device.

You can enter information for more than one kind of connection, if you plan (for example) to use infrared devices part of the time and cables the rest of the time. You can also change the connection setup information at any time after you install TranXit by choosing *Setup* from the *Connection* menu. Please see section E.7 for any problems you experience with linking the two computers.

To connect to the remote computer:

1. Start TranXit on the local and remote computers and wait until the *New Window* button and the *New Remote Window* menu option become active (not grayed out).
2. On either computer, select the *New Window* button on the tool bar. If you don't have a mouse, choose *New Remote Window* from the Window menu.

When the two computers connect:

- A new window appears on the local computer, displaying files and directories of the remote computer.
- The *New Window* and *Clipboard* buttons on the local computer become active.

- A System Connected message appears on the remote computer. You cannot issue any TranXit commands on the remote computer while the local computer has control of it. (You can, however, execute other applications on the remote computer while TranXit runs in the background.)

You are now ready to copy files, synchronize directories, and perform other TranXit tasks.

D.9.4 Synchronization

Synchronization is a powerful and flexible TranXit feature that lets you coordinate the files and directories you use on both of your computers. Normally, you use synchronization to make sure that you maintain the most current version of all your files on (for example) your notebook you take with you on business trips and the desktop. You can also synchronize files on a local basis between (for example) your docking station and your notebook. You can use synchronization in many other ways, such as deleting all files from one computer that are not present on the other computer.

The *Synchronize Preview* feature allows you to see in advance the result of any synchronization command.

Here is one example of how to use synchronization. (TranXit on-line Help has other examples.) This scenario assumes TranXit is installed on both computers and that you have prepared the computers for data transmission.

Scenario *Your notebook has the most current versions of the files you use for your work. Your desktop computer also has most of these files, but some are not the current version. You want to update your desktop with the most current version of each file.*

Synchronization Instructions

1. Start TranXit on both computers and set up an infrared or cable data link between them.

2. Select the *New Window* button on the notebook, or select *New Remote Window* from the *Window* menu.
3. Select the *Sync* button when it becomes active, or select *Synchronize* from the *Disk* menu.
4. Select the directory on the notebook that contains the current version of the files that you would like to synchronize. The directory list appears on the left of the dialog box.

If necessary, select a different drive from the drop-down list below the computer name. You can only synchronize one directory and its subdirectories at a time.

5. Select the directory on the desktop that contains the older versions of the files. The directory list appears to the right of the three arrow buttons.

If necessary, select a different drive from the drop-down list below the computer name.

6. Select the >> button if it is not already active.
7. Select the *Options* button to view *Synchronize Options*.
8. Select *Copy Only Newer Files* in the upper left grouping of four options; select *None of Above*, the last option in the lower left of the dialog box.
9. Select one or more of the *Apply To* options, if desired. Then select *OK*.
10. Select *Preview* if you want to see in advance which files will be copied. If the result is what you expected, select *OK* to exit the preview.
11. Select *DONE* on the *Synchronize* dialog box to synchronize your files.

D.9.5 Working with Files

Copying Files and Directories

Follow these steps to copy files and directories:

1. Select the files or directories you wish to copy. You can select multiple files within a directory by holding down **b** while you select your files. You can also use **j** to select a group of files by selecting the first file and holding down **j** while you select the last file in the group.
2. Drag the selected files to the destination drive icon or directory icon.
3. Release the left mouse button.

TranXit prompts you to confirm the mouse action and/or to confirm the copy if it will overwrite a file of the same name.



These prompts do not appear if you have disabled the Mouse Action and/or File Replace confirmations.

4. Select **Yes** to overwrite the file listed in the *Confirmation* dialog box; select **Yes to All** to overwrite all files that have the same name; select **No** to skip overwriting the file listed in the Confirmation dialog box; select **Cancel** to cancel the *Copy* command.

A message on the screen lists the name of each file as it is copied. When the message disappears, the copy is complete.



You can also copy by using the mouse to select the tool bar Copy button after you have selected the files or directories.

Deleting a File or Directory

TranXit lets you delete files or directories from your local or remote computer. Follow these steps:

1. Select the files or directories you want to delete.
2. Choose *Delete* from the *File* menu, press *Del*, or select the *Delete* button on the tool bar.

The *Delete* dialog box appears. The name of the file or directory you selected appears in the *Delete* box. You can change this information, if necessary. You can enter wildcard characters in the Delete edit box, such as *.doc to select all files in the current directory whose names have a .doc extension.

3. Select the *OK* button or press *e* to delete the files or directories.

You are prompted to confirm the deletions.



This prompt only appears if you have set File and/or Directory Delete confirmations on the Confirmation dialog box, or if the files have System or Read Only attributes.

4. Press *e* or select *YES* to delete the files or directories listed in the *Confirmation* dialog box, press *A* or select *YES TO ALL* to delete all selected files or directories, press *N* or select *NO* to skip deleting the file or directory listed in the *Confirmation* dialog box, or press *|* to cancel the delete command.

Moving a File or a Directory

You can move files and directories from one location to another on the same computer or from one computer to another by using the mouse or by using the *Move* command. Follow these steps:

1. Select the files or directories you want to move.

2. Hold down the left mouse button, then hold down **b** while you drag the selected files or directories to the destination directory icon or drive icon.
3. Release the left mouse button and **b**.

TranXit prompts you to confirm the mouse action and also to confirm the move if it will overwrite a file of the same name. (These confirmations do not appear if you have disabled them).

4. You may confirm or cancel the move by clicking the appropriate buttons.



You can also move files or directories by clicking on the tool bar Move button after you have selected them.

Renaming a File or a Directory

Follow these steps to rename a file or a directory:

1. Select the file(s) or directory.
2. Choose *Rename* from the *File* menu. The *Rename* dialog box appears and the name of the file appears in the *Rename* box.
3. In the *To:* box enter the new name of the file or directory. You can use wildcards to rename a group of files. If you try to rename a file with a name that already exists, you are asked to confirm that you want to overwrite the other file.
5. If necessary, change the name in the *Computer:* box so you are renaming the file on the correct computer.

You may need to do this if you have identically named files in the same named directory on both your local and remote computers.

6. Click the *OK* button or press **e** to rename the file or directory. You can click the *Cancel* button or press **|** to abandon the rename.

D.9.6 Clipboard

TranXit allows you to send and receive data stored in the Windows clipboard or Windows for Workgroups clipbook between the local and remote computers. This is a very convenient feature for users who wish to print, transfer or edit sections of very large files without copying the entire file to the other computer. You can also use the clipboard to exchange text, some device independent graphics, spreadsheet data, and many other file types.



Any information in the remote computers clipboard will be overwritten.

To send clipboard data to the remote computer:

1. Start TranXit on both computers and set up a link.
2. Click the *New Window* button on either computer, or select *New Remote Window* from the *Window* menu. The two *Clipboard* buttons on the toolbar should now be enabled.
3. Click the *Send Clipboard* toolbar button. The information you previously placed in the clipboard is sent to the remote computer's clipboard.

To receive clipboard data from the remote computer:

1. Start TranXit on both computers and set up a link.
2. Click the *New Window* button on either computer, or select *New Remote Window* from the *Window* menu. The two *Clipboard* buttons on the toolbar should now be enabled.
3. Click the *Receive Clipboard* toolbar button. The information you previously placed in the clipboard is sent to the local computer's clipboard.

You can now paste the clipboard information to any application that supports the Windows clipboard. See the Windows manual if you are not sure how to copy, cut or paste information to and from the Windows clipboard.

D.9.7 Troubleshooting

For more detailed Troubleshooting ideas, please see the Readme file in the TranXit Program Group.

Problems Linking Two Computers

- Be sure there are no interrupt IRQ conflicts. The most common cause of this is sound cards residing on IRQ7.
- Be sure the cables or infrared devices are securely connected to both computers. Serial cables need to be screwed in completely in order to function properly.
- Be sure you selected the same baud rates for both computers (serial and infrared only).
- Be sure you selected the correct port on each computer.
- If you see the error message "No fixed disk found on remote computer," you have probably set an Access Level of *None* for the hard disk drive on the remote computer. TranXit will "find" the disk drive again if you change its Access Level to *Read/Write* or *Read Only* within the remote computer's *Security* menu.

Problems with Remote Install

- In some cases your local computer will need to be slowed down during the remote install process. This will most likely occur when the remote computer is an older system. In order to do this, you will need to change the baud rate parameters for the remote install process so that the remote computer can accept data transferred from the host. To change the baud rate parameters you will need to edit the TRANXIT.INI file. Use an editor such as Windows Notepad or DOS Edit to open TRANXIT.INI. The baud rate parameters can be found under the section labeled "[Advanced], RemoteInstallBaud =". The default baud rate settings is 57,600. Other possible settings are 9600, 19200, 38400, and 115200. Remember to save your changes to the TRANXIT.INI file before you exit the editor.

Problems Transferring Files

- Be sure you assigned a different name to each computer.
- If you can't see the files you want to copy or move, check the filter options on the *View* menu.
- Don't use your computer's COM ports for other applications while you are transferring data with serial cables.

Problems Using Infrared Data Transmission

- Be sure there is no direct sunlight, fluorescent light, or flashing incandescent light close to the infrared connections.
- Avoid interference from remote control units (wireless headphones and audio devices) pointed at the infrared connections.
- Do not point one of the devices more than 30 degrees away from the other device's receiver.
- Do not place objects between the two connections that might interfere with line-of-sight data transmission.

- Do not move the infrared devices away from each other during data transmission. This may cause disconnection if you are using infrared devices with no external power source.
- Do not place the infrared devices too far apart, especially if they do not use an external power source.

Problems Using the Clipboard

- If an image that has been sent via one of the clipboard functions appears distorted on the receiving system, it may be due to the fact that it is a device dependent bit map (DDB). DDBs are created with the intention that they will only be displayed on the original system. This distortion commonly occurs when the original system is operating in a video mode that displays a higher number of colors. For example, the original machine is running in 256 color mode and the receiving machine is displaying Windows in only 16 colors. This can be corrected by running Windows Setup and matching the video modes on both systems.
- If you receive the error message *"Error in Clipboard Return"*, or a message stating you have *"Insufficient Clipboard Memory"*, the problem is most likely caused by low memory on the receiving system. To correct the problem you can free more memory on the receiving system or save the clipboard to a file and use the TranXit file manager to copy the file to the receiving system.

D.9.8 TranXit Information

Puma has established a Bulletin Board number for TranXit customers who wish to access information on new product developments, promotions and new releases. To access the Bulletin Board, configure your modem as follows and dial 408-970-8766 (USA). The Bulletin Board System supports up to 14400 BPS with communication settings of 8 data bits, 1 stop bit, and parity set to none.

Wireless Connectivity Bundle \$129.00

This Puma Wireless Connectivity Bundle lets you maximize your productivity by allowing you to make easy, reliable, wireless file transfers. Your new notebook comes with the ability to transfer and synchronize files without cables using TranXit™ for Windows and your computer's built-in infrared transmitter. To take full advantage of this powerful feature, you'll want to upgrade to TranXit PowerPro™ and get an infrared adapter for your desktop PC. For a limited time this special connectivity kit, including the TranXit PowerPro upgrade and a Puma Serial Infrared Adapter is being made available to new notebook owners for only \$129.00. If you already have infrared capability for your desktop PC, then the only thing you're missing is the TranXit PowerPro upgrade.

TranXit PowerPro™ Upgrade \$69.95

If you already have the infrared adapter or cables, then all you need is the TranXit PowerPro™ upgrade. TranXit for Windows has your notebook and desktop PC connected. Now you can maximize your productivity by turning on the power with a TranXit PowerPro upgrade.

- Print directly from your notebook to an IrDA compliant printer (like the HP LaserJet 5 laser printer)
- Automatically synchronize files so that both computers have only the latest version of a document
- Send print jobs through your desktop PC to a remote printer, over an infrared connection
- Use the virtual clipboard feature to share information with other infrared systems
- Access and transfer files while out of the office through your built-in modem

Puma Fast Infrared Adapter \$299.00

If speed is important, then the Puma Fast Infrared Adapter is the right choice for transferring files at amazing speeds. With a Puma Fast Infrared Adapter for your desktop PCs and notebook, you can transfer data at rates up to 1.15 megabits per second at distances of up to 10 feet. That means you can transfer a 20-page word document in one second. The Puma Fast Infrared Adapter consists of a ISA board that can be easily inserted in your desktop, and an attached infrared transceiver. The Puma Fast Infrared Adapter is also available for notebooks in PCMCIA format. This adapter features a built-in transceiver and is ready to use by simply placing the card in the PCMCIA slot of your notebook. Both Puma Fast Infrared Adapters come with a full version of Tranxite PowerPro.

Serial Infrared Adapter¹ \$99.00

Upgrade your desktop computer to support infrared data transfer. This infrared adapter plugs into the serial port of your desktop computer. Working together with the built-in infrared device on your notebook, this adapter allows you to transfer or synchronize data between your notebook and your desktop – without cables!

¹ Designed to comply with the IrDA specification



Yes, send me the TranXit PowerPro™ upgrade today!

		QTY.	TOTAL
Puma Wireless Connectivity Bundle	\$129.00	_____	_____
TranXit PowerPro Software Upgrade	\$69.95	_____	_____
Serial IR Adapter	\$99.00	_____	_____
Puma Fast Infrared Adapter			
PCMCIA (notebook)	\$299.00	_____	_____
ISA (desktop)	\$299.00	_____	_____
TranXit User's Manual / Master Disk	\$19.95	_____	_____
Shipping and Handling			\$ 8.00
CA residents please add sales tax			\$ _____
Total Amount Enclosed			\$ _____

Name: _____

Company: _____

Shipping Address (No P.O. Boxes): _____

City _____ State _____ ZIP _____

Disk Size: ☐ 3.5 ☐ 5.25

☐ VISA ☐ MasterCard ☐ Amex

Cardholder Name: _____

Cardholder Signature: _____

Account Number: _____

Expiration Date: _____

Check Enclosed Make payable to Puma Technology™

Fax Order To

1-800-418-0303

Other Countries call

for pricing and ordering

Or Call

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Santa Clara, CA 95056

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Your registration entitles you to receive the TranXit 2.0 upgrade for a nominal fee of \$9.95 (shipping & handling). TranXit 2.0 includes print redirector, pop-up help balloons, a configurable toolbar, enhanced file transfer performance, and right mouse button support. Call us at 1-800-774-PUMA and we'll send you the TranXit 2.0 upgrade, or just complete and mail this form, and we'll send you the three free issues of *PC LapTop* magazine.

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