

PWS3261 USB Port Installation guide

D-1 USB Port

Almost all the new PCs are equipped with USB ports. Some even only have USB ports and do not support serial ports anymore. PWS3261 series are equipped with USB port that could replace serial ports for download/upload applications and source codes a PC and PWS3261. As the USB port is a client version and hence could be connect to printer for printing.

1. Attention:

The USB download/upload function is only supported on PWS3261 series or later models. To use this function, you would need to upgrade your ADP to ADP 3.1.07 or later versions.

2. Cable connection:

You should have a cable(USB TYPE A–male TO USB TYPE A–male) as depicted below for USB connection between PC and PWS3261.

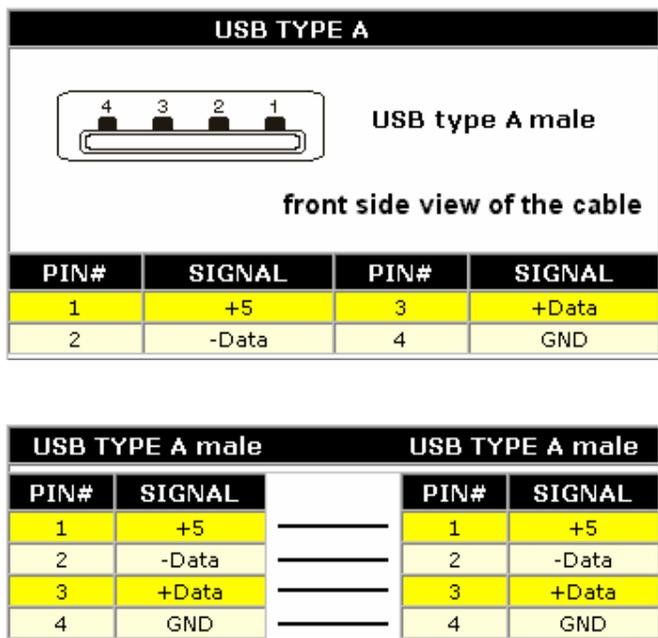


Figure D-14: Pin assignment of USB



Warning: the communication devices may damage by electric power. Be sure to turn off the power when connecting the USB cable to the HMI unit.

3. Hardware detection and USB driver installation

3-1. Connect PC to HMI with USB TYPE A-male cable. See Figure D-15



Figure D-15: USB Cable from PC to HMI

3-2. Be sure switches 7 of HMI is “ON”; then turn on the power on both HMI and PC. After system menu appears on the screen of HMI; press the “USB download” button. See Figure D-16.

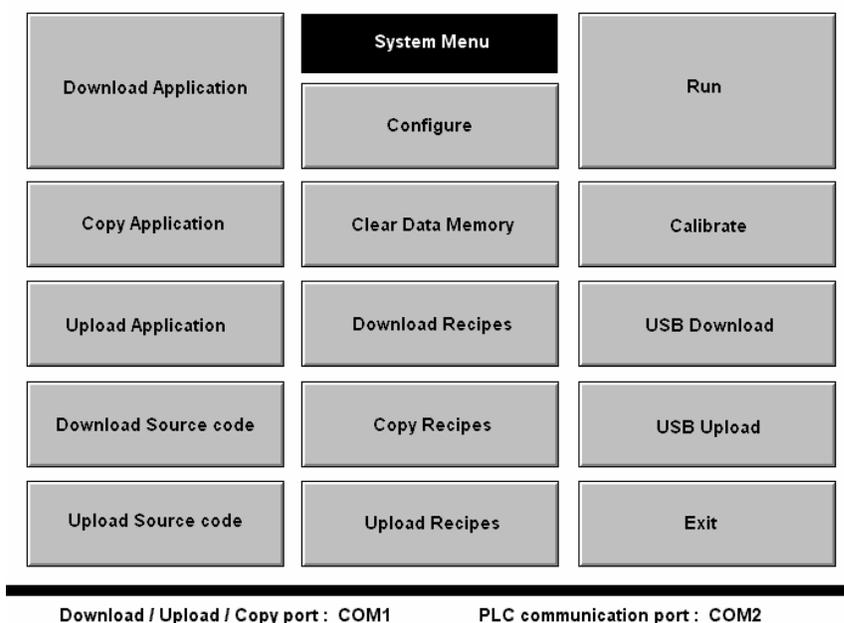


Figure D-16: system menu on PWS3261

3-3. Windows on the PC will detect the new USB device and ask to install the USB driver. See Figure D17-D21



Figure D-17: Start the search for new device driver



Figure D-18: Windows searches for a device driver



Figure D-19: Specify a the file directory where the device driver is stored. The default is C:\HITECH_ADP



Figure D-20: Windows searches for the drive as you specify and begin to install



Figure D-21: the USB driver is installed

**D-2
Download an
application
from PC to
HMI through
USB port**

The PWS3261 supports the download/upload function via USB port. You can download/upload applications and source codes on PC or HMI through the USB port. the setup steps are as follow:

1. Press “USB Download” on system menu

- 1-1. Connect the USB type A male communications cable between PC and HMI.

- 1-2. Be sure DIP-SW No 7 is “ on” then turn on the power on HMI and press the ”USB Download” button on system menu. The PWS3261 displays “waiting for Downloading” and is ready to receive a download. See Figure D-22.

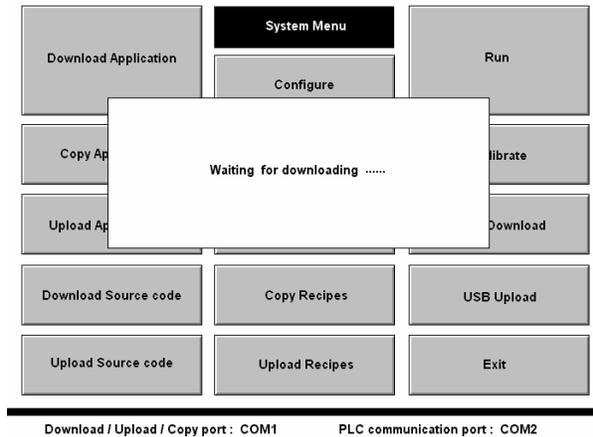


Figure D-22: the screen of “waiting for Downloading”

2. Compile the application and select “USB” on Transmission setup box

- 2-1. Before downloading, be sure to compile your application by choosing “compile” from the “application” menu.
- 2-2. From ADP, select “options” > “Transmission setup” to specify the computer’s USB port for the downloading operation, See Figure D-23.

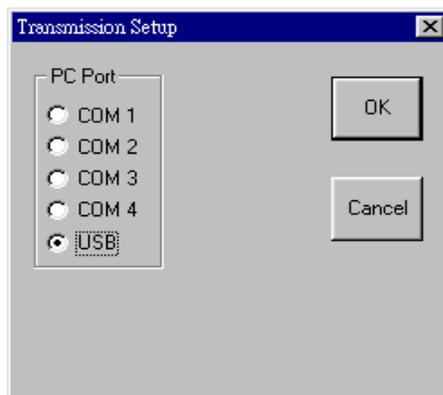


Figure D-23: Select “USB” port for download

3. Downloading “ Firmware and application” or “application”

3-1. If you have already compiled your application, then select “Download Firmware and application” or “Download application” from the “application” menu. The download operation will start immediately. See Figure D-24

3-2. During Downloading; the PC and HMI both display their progress. See Figure D25-D29

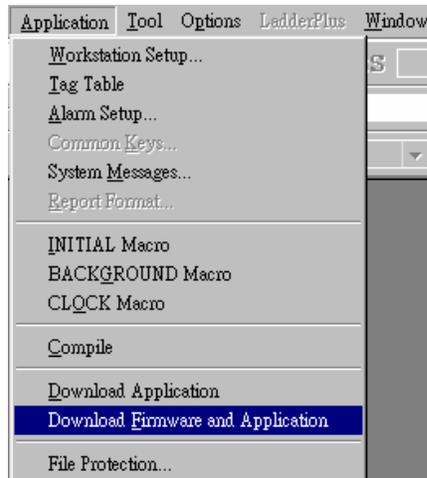


Figure D-24: “Download Firmware and application
“from “application” menu of ADP



1. **“Download Firmware and Application”** à It’s suitable for first time download firmware and application or change the system parameters. it takes longer than “Download Application”. (Ex: Change PLC.....)
2. **“Download Application”** à It is suitable for subsequent changes on the screens in applications.

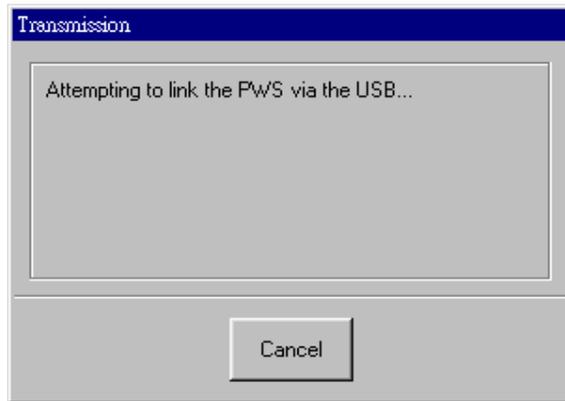


Figure D-25: ADP is trying to establish a connection to the HMI via USB port.



Figure D-26: ADP shows "Erasing flash memory ..."

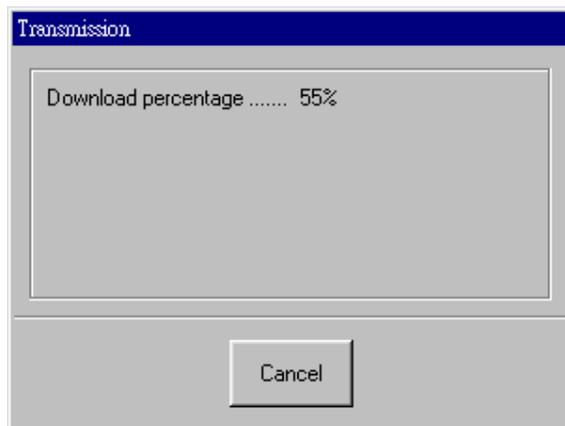


Figure D-27: ADP displays the percentage of completion.

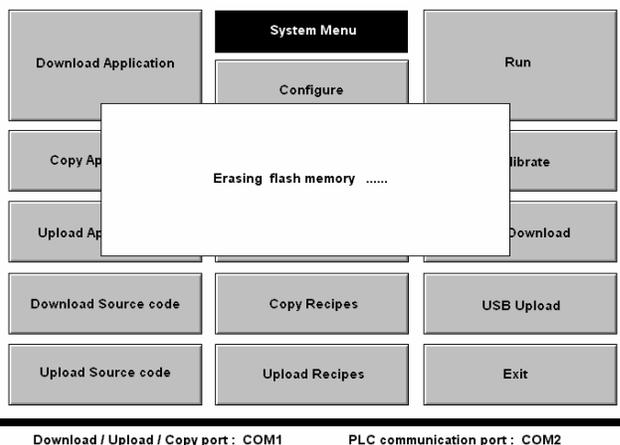


Figure D-28: HMI shows "Erasing flash memory..."

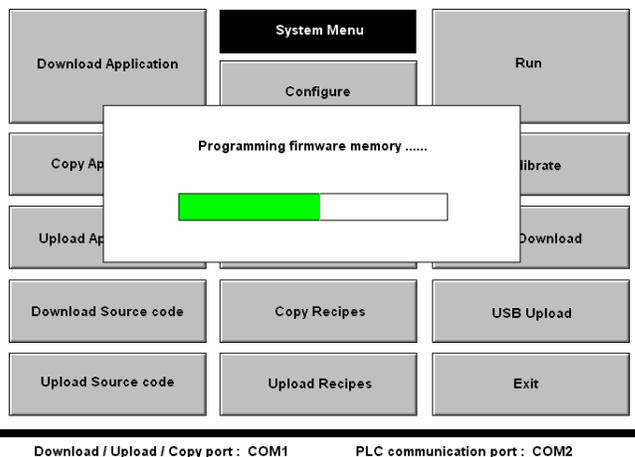


Figure D-29: Progress status of Programming the HMI

4. Download completed

The different messages shown on PC and HMI when download is successful. See Figure D30-D31 ◦

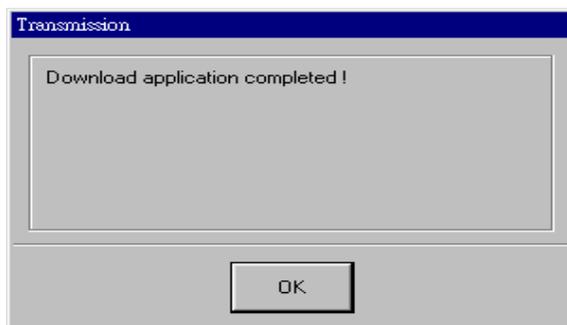


Figure D-30: ADP displays download successful.

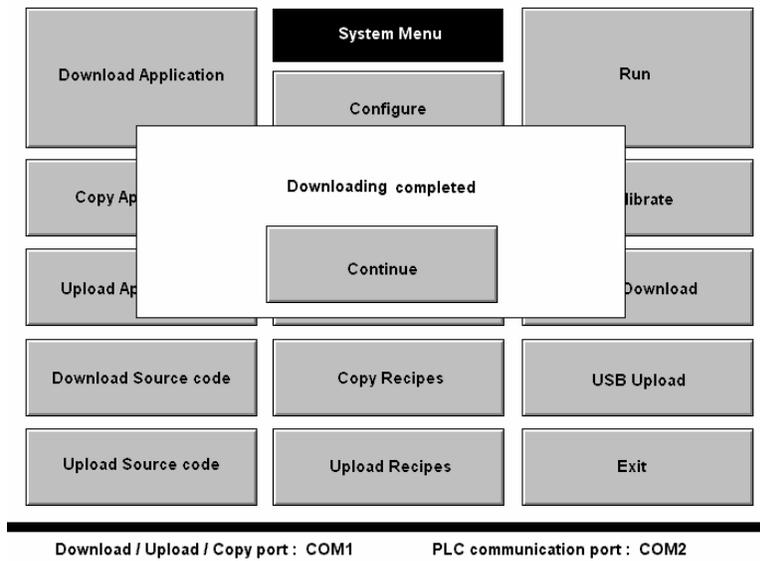


Figure D-31: HMI displays download successful.



If your OS is Windows 2000, it will popup a warning message box. It is normal and you could just ignore it but closing the box.

5. Error message

In case of an error message appear, please check your USB setting or cable connection. See Figure D32-D33.



Figure D-32: ADP shows connection failure

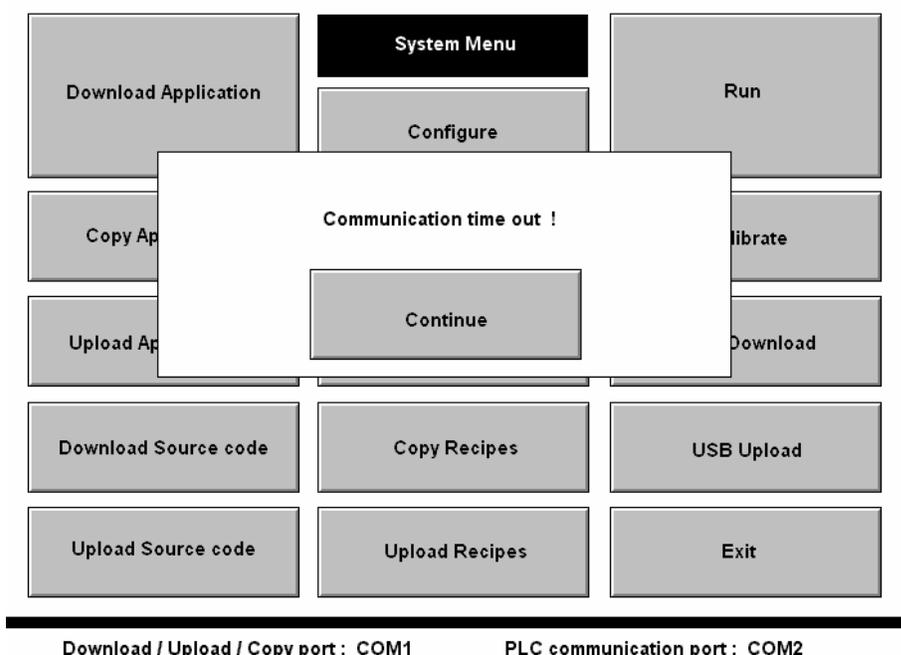


Figure D-33: The HMI shows communication time out

D-3 Upload application from HMI to PC through

The PWS3261 supports download/upload function via USB port. You can easy to save application program and source codes into PC or HMI for backup use via USB port:

You can upload a program from the HMI to the PC; please choose "USB upload" from application menu. ADP will save the program as *.AP1 \ and *.AP2 in your PC. Set steps as follow:

1. Press "USB Upload" on system menu

1. Connect the USB type A male communications cable between PC and HMI.
2. Be sure DIP-SW No 7 is " on" then turn on the power on HMI and press the "USB Upload" button on system menu. The PWS3261 displays "waiting for Uploading" and is ready to receive a upload. See Figure D-34.

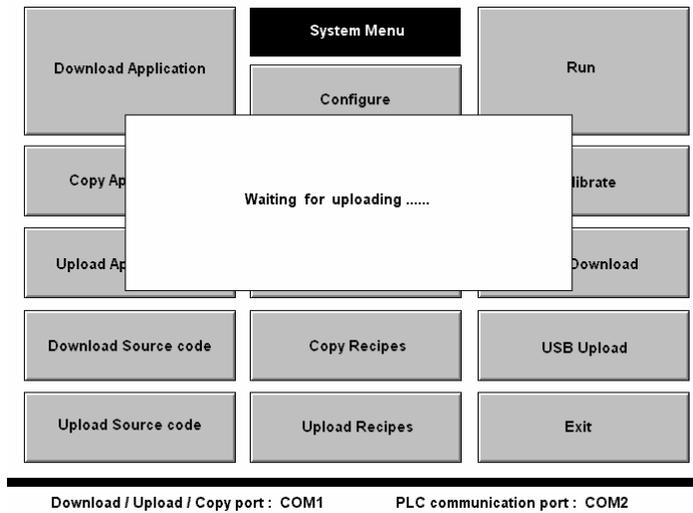


Figure D-34: the screen of “waiting for Uploading”

2. To select “USB” on Transmission setup box

From ADP, select “options” > “Transmission setup” to specify the computer’s USB port for the uploading operation.

3. Execute Upload application

If choose “Upload application” from the “File” menu. You should type the file name and directory. the uploading operation starts immediately. this program exists as an execution file named “ **.AP1” See Figure D35-D36

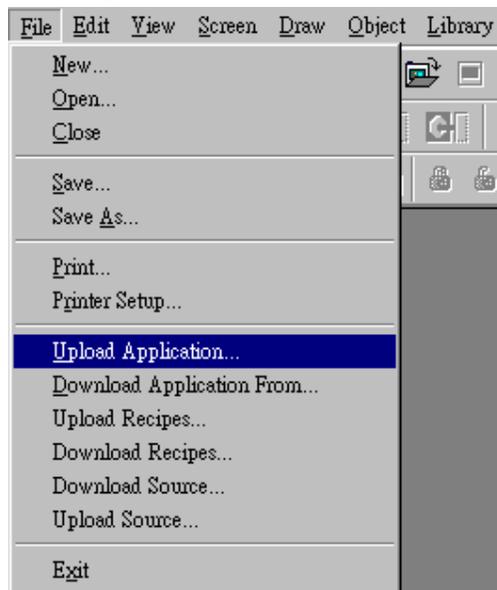


Figure D-35:”Upload Application” in “File” menu of ADP

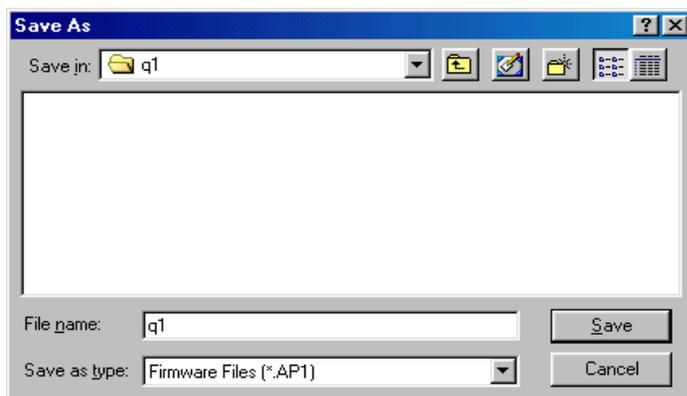


Figure D-36: PC requested for file name and directory

4. Upload completed

The different message shown on PC and HMI when upload is successful. See Figure D37-D38

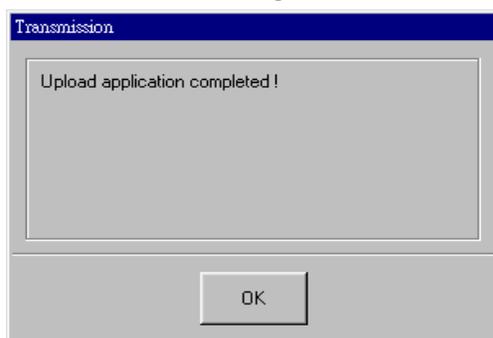


Figure D-37: ADP displays upload successful

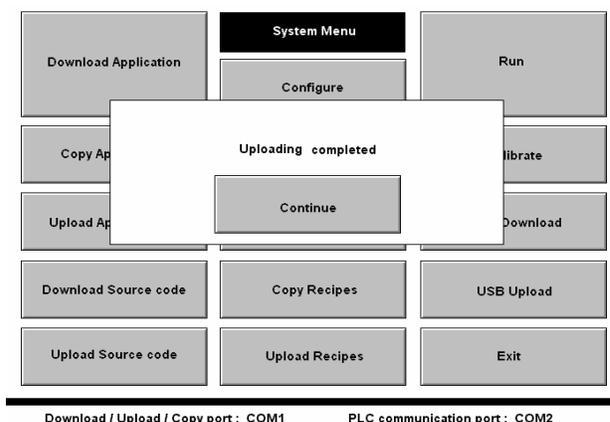


Figure D-38: HMI displays upload successful

 If your OS is Windows 2000, it will popup a warning message box. It is normal and you could just ignore it but closing the box.

From your PC_download the program **.AP1/**.AP2 to the HMI. Select "Download Application Form" from "File" menu. Do not forget DIP SW setting and "USB" Transmission setup before download.

**D-5
Download/
Upload
source
codes
Through
USB**

1. Download source code

- 1-1. The USB cable connect way, DIP SW setting and USB transmission setup are same as previous.
- 1-2. Select "Download source..." from "File" menu of ADP and give file name and directory.

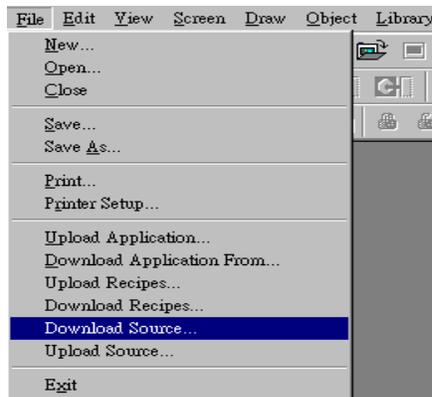


Figure D-39: "Download Source..." in "File" menu of ADP



Figure D-40: PC requested for file name and directory

2. Upload source code

2-1. The USB cable connect way, DIP SW setting and USB transmission setup are same as previous.

2-2. Select “Download source...” from “ File “ menu of ADP and give file name and directory.

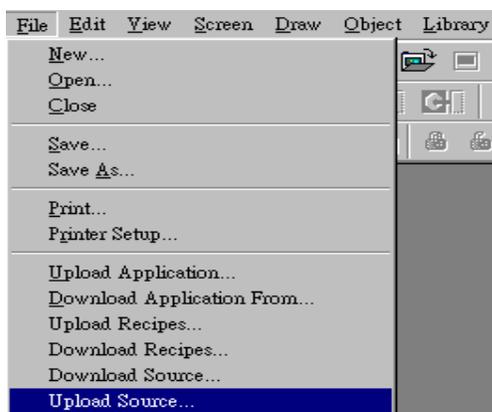


Figure D-41: "Upload Source..." in "File" menu of ADP

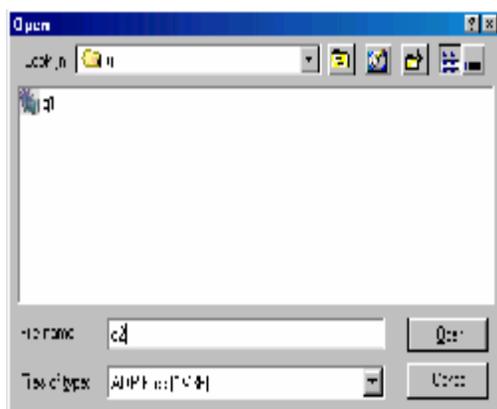


Figure D-42: PC requested for file name and directory