

ES/PCI

Twinax Emulation Card and Emulation Software

Quick Install Guide



This guide describes how to install the ES/PCI emulation adapter in your PC. It also describes how to install the Emerald Series emulation software.

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INTRODUCTION

ES/PCI is a hardware/software package that connects your PC to IBM Midrange computers.

The hardware component is the PCI adapter, which plugs into an expansion slot in the back of your PC. It supports standard twinax cable connections through an on-board D-connector and a T-connector cable, included in this package.

The software portion is the Emerald Series emulation software, ES/32, included on the enclosed CD.

This Quick Install Guide describes:

- How to install the ES/PCI adapter into your PC
- How to install the INF files
- How to install and run the emulation software

ES/PCI Features

- Compatible with PCI specification version 2.1.
- There is no need to configure memory and I/O address during installation.
- The adapter supports, automatically, the entire range of interrupts (IRQ 3-15).
- Supports 7 sessions and 7 addresses using Emerald Series emulation software.
- Nine display station models and thirteen printer models from which to choose to emulate.
- Communicates with IBM S/36, S/38, Advanced Series 36, and AS/400.
- 32-bit Emulation Software included.

PC Requirements

- IBM PC (or compatible) with 486, or Pentium processor.
- CD-ROM drive.
- One free PCI slot according to the following specification:
 - Data Bus speed: 33MHz
 - Data Path Width: 32 bit

- A minimum of 4 MB of memory (actual memory requirement depends on emulation software).
- Windows 95, 98, 2000 or Windows NT 3.51 (or above).

INSTALLING THE ES/PCI ADAPTER

There are three steps to successfully installing the ES/PCI adapter card when used together with the ES/32 software from NLynx Systems:

- Install the ES/PCI adapter card in your PC
- Attach the pigtail and twinax cables to the ES/PCI adapter card
- Installation of the ES/PCI software

Each of the above steps is described below.

Note: Adapter cards are extremely sensitive to static electric charges. Be sure to discharge your body's static electricity by touching a grounded surface before handling an adapter.

Installing the Adapter

1. Switch off all computer system components, unplug the computer, and remove the computer cover.
2. Work in a static-free area and touch the computer chassis often to equalize static charges.
3. Insert the ES/PCI adapter card into a free PCI slot. The 15-pin D-connector should protrude through the rear of the PC chassis.
4. Align the adapter and retaining bracket and tighten the screws to the retaining bracket.
5. Replace the cover on the PC.
6. Connect the T-connector and twinax cable to the adapter, as described below.

Connecting the Pigtail and Twinax Cables

The following instructions assume that a twinax cable has been cabled-through from the previous terminal on the line or directly from a port on the host system.

In order to attach your PC to the host, you need two cables: an existing host twinax cable and the self-terminating pigtail cable included in your ES/PCI package.

The pigtail cable has two ends: the 15-pin end, called the D-connector, which connects to the adapter card, and the dual-branch end, called the T-connector, which connects to the host twinax cable.

1. Plug the 15-pin D-connector securely into the back of the ES/PCI adapter card.

To ensure good grounding, fasten the D-connector's mounting screws, making certain the connector is firmly attached to the ES/PCI adapter card.

2. Attach the host twinax cable to either of the T-connector branches.

If you are cabling-through to another terminal farther down the line, attach that next terminal to the remaining T-connector branch.

Since this is a self-terminating pigtail cable, you do not need a cap for the open end of the T-connector.

Note: If you are installing multiple 3xTwin adapter cards, repeat steps 1 and 2 for each adapter installed.

3. Power on the PC and its peripheral devices.

INSTALLING THE ES/PCI SOFTWARE

The software is the same for Windows 9X, Windows NT and Windows 2000 users. The application detects which operating system you are using and installs the appropriate version of the emulation software.

To install the INF files:

Win/NT4 does not require a separate INF installation. See below for the other Operating System installations.

WIN95 ONLY:

1. The Add New Hardware wizard will detect the PCI Communication Device. Insert the ES/PCI CD into the CDROM drive, and click Next.
2. Windows will not be able to find the driver, so click Other Locations, browse for \INF\Win95 on the CD, and click OK. Click Finish when the INF is found.
3. When prompted for the 'Win95 Drivers Disk', click OK. **Do not use the Win95 CD!** Instead, browse the ES/PCI CD for \INF\Win95 (again) for the location of the file "pcitwin.vxd" and click OK on the next two screens.
4. Run SETUP.EXE from the ES/PCI CD in the ES/32 folder. When the Find Device Driver Disk window appears, use the default path on the ES/PCI CD. Follow the prompts.

WIN98 ONLY:

1. The Add New Hardware wizard will detect the PCI Communication Device. Insert the ES/PCI CD into the CDROM drive, and click Next.
2. Click Next to use the recommended search method.
3. The wizard will not automatically find the driver. Select Specify Location, browse the CD for \INF\Win98 for the location of the driver, and UNCHECK the others. Click Next to continue, and then Next to install the driver from the CD location. You must get the Finish button to know it has installed successfully.

4. Run SETUP.EXE from the ES/PCI CD in the ES/32 folder. When the Find Device Driver Disk window appears, use the default path on the ES/PCI CD. Follow the prompts.

WIN2000 ONLY:

1. The Found New Hardware wizard will detect the PCI Simple Communications Controller. Insert the ES/PCI CD into the CDROM drive, and click Next.
2. Click Next to search for a suitable driver.
3. Select 'Specify a Location' only. Click Next.
4. Browse the ES/PCI CD for the INF\Win2000 folder, and choose the NLYNX.INF file. Click Open, and then click OK.
5. Click Next when the driver has been found. You must get the Finish button to know it has installed successfully.
6. Run SETUP.EXE from the ES/PCI CD in the ES/32 folder. When the Find Device Driver Disk window appears, use the default path on the ES/PCI CD. Follow the prompts.

To install the emulation software for Win95/98/NT4/2000:

1. Insert the ES/PCI CD into your PC's CD drive.
2. Click the Start button and select Run.
3. Browse to the ES/PCI CD.
4. Select ES/32 and click Open.
5. Select Setup.exe and click Open.
6. Click OK.
7. Follow the on-screen prompts.

Configuration for ES/PCI connection:

1. After the "Setup Succeeded" message appears, click OK.
2. Double-click on the DISPLAY EMULATOR icon.
3. Click No to the question "Do you want to specify the password now?" You may assign an administrator password later.
4. Click OK to the message "There are no device drivers installed to work with the emulator. OK to install now?"
5. New Connection Method window will appear, click Add Driver.
6. Browse the CD drive and go to ES/32.
7. Select Drivers.tvi and click Open.
8. Click OK to the Find Device Driver window.
9. Click OK to the next message "Please note...Do you still want to install this device driver?"

10. Click Yes to the ES/32 window.
For Win95 only: If you receive the message “Unable to find board’s virtual device driver (VxD)...” click OK. It will find the device driver when the PC reboots.
11. ES/32 Display window will appear, if character set is to be English USA click OK. If not, select a character set and click OK.
12. In the Device Name field, type in a name you wish to use to identify this device. This name does not appear on the host system.
13. Choose the type of emulation session, Display or Printer.
14. Use the pull-down menu to choose the Model type.
15. In the Host Address field select the twinax address of this device.
16. In the Keyboard field select one of the following: International World Trade or US Typewriter (default). Click OK.
17. If you receive the message “Would like a shortcut of this device on your desktop,” select YES.
18. Click OK to restart.
19. After the PC reboots and you wish to configure more sessions, double click on the Display Emulator icon. If not, go to Chapter 4.
20. You must disconnect all sessions before making configuration additions/changes by selecting Session>Disconnect. Then select File>Configure.
21. Select PCI Twinax Board: PCI Twinax0.
22. Click New Device. Repeat steps 13-18.
23. If you want to add more sessions, click NO to “Do you want to open this new configuration now?” and repeat steps 13-18.
24. When finished, click Close.

RUNNING THE EMULATION

At this point, you have completed the setup of ES/32 and are now ready to run your emulation software.

Running ES/32 PCI

Starting a session

1. If you created a shortcut, double click on it or go to START>PROGRAMS>ES/32 PCI>Display Emulator.
2. A sign on screen should appear. If only a white screen opens, then go to Session>Connect, choose the desired session and click Open. If a black screen appears wait 10 seconds for the sign-on to appear. If not, then check with your IBM Host System Administrator to verify the host address and model type for your workstation.

Getting Help

For help on running your emulation software, use the context sensitive on-line help, built into the application.

SALES and TECHNICAL SUPPORT

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ES/PCI Limited Warranty

General Terms and Conditions

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