Protecting your investment, now and in the future

IBM 3270 Emulation Adapters

Highlights

Provide convenient high-speed access to 3270 host networks

Allow a personal computer to emulate an IBM 3278/3279 Display Station or an IBM 3287 Printer

Attach an IBM personal computer or compatible computer to an IBM 3270 Control Unit or Display/ Workstation Adapter

Support Control Unit Terminal (CUT) mode, Distributed Function Terminal (DFT) mode and 87E mode, which allows the PC to emulate a 3287 Printer

Require no host hardware or host system software modifications for IBM 3270 emulated functions

Function with an SNA 3270 emulation program such as IBM Personal Communications

Connect via coaxial cable, IBM Cabling System media or telephone twisted pair

Require no reconfiguration when the computer is moved from one office to another

Fast, easy and reliable

When you need a fast, easy, reliable connection to a host computer, you need a solution from the IBM 3270 Emulation family of adapters. The 3270 Emulation ISA and PC Card adapters allow host emulation to desktop and portable computers. The latest addition to the IBM Emulation family of adapters, the new 3270 Emulation PCI Adapter, provides host emulation on a personal computer equipped with the Peripheral Controller Interconnect (PCI) interface slot which is now available on most desktop and server PCs.

The IBM 3270 Emulation family of adapters provides convenient high-speed access to 3270 host networks. With a 3270 emulation program, these adapters effectively turn your PC into an IBM 3278/3279 Display Station or 3287 Printer. So, that means you can now access your host-based applications, as well as your e-business applications—all from your desktop PC.



The IBM Emulation family of adapters: the ISA Adapter, PC Card and cable assembly, and PCI Adapter

Installation information

Hardware requirements

- The ISA adapter operates in any PC equipped with an ISA slot.
- The PC Card Adapter operates in any PC equipped with a PCMCIA Type II or Type III slot.
- The PCI Adapter operates in any PC equipped with a PCI slot that meets the 2.1 or later PCI specification.
- Plug and Play capability is provided for both the PC Card and PCI adapters.
- You must provide one of the following cable media:
  - Coaxial Cable (RG 62A/U with BNC Connector)
  - IBM Cabling System Media (3174, 3274, 9370 Workstation Subsystem Controller attachment only)
  - Telephone twisted pair via a coax-to-twisted pair adapter. Length requirements: 30 m (100 ft) minimum to 274 m (900 ft) maximum.
- PC communication to the host is obtained by attachment to one of the following:
  - IBM 3174, 3274 and 3276 Control Units
  - IBM 4321, 4331 and 4361 Processor Display/Printer Adapter (requires a position on the Display/Printer Adapter or on the Workstation Adapter on a 4361)
  - IBM 9370 Information System Workstation Subsystem Controller
  - IBM 3174, 3274 or 9370 Workstation Subsystem Controller (via the IBM 3299 Terminal Multiplexer)

Software requirements

A PC Operating System and a 3270 Emulation Program are required (purchased separately):

- Operating system for the PC (Microsoft® Windows® 95, Windows 98, or Windows NT®)
- 3270 Emulation software program for SNA Communications *
- 3270 file transfer program running on the host CPU**

** For the PCI adapter, IBM Personal Communications Version 4.3 or higher is required.*

*** File transfer may affect performance of other devices attached to the 3270 system.*

Cables and Connectors

Only the following cable lengths are supported:

	Minimum Length	***Maximum Length***
Coaxial (RG62A/U)	None	1500 m (4920 ft)
Telephone twisted pair Type 3	30 m (100 ft)	274m (900 ft)
150 ohm shielded twisted pair (22 AWG)		
with red balun both ends	None	607 m (2000 ft)
with red balun one end	None	1000 m (3280 ft)
Dual-Purpose Connector (DPC) both ends	None	1500 m (4920 ft)
150 ohm shielded twisted pair (26 AWG)		
with red balun both ends	None	406 m (1333 ft)
with red balun one end	None	666 m (2186 ft)
Dual-Purpose Connector (DPC) both ends	None	1016 m (3333 ft)

3270 Emulation Adapters At A Glance

Product	**ISA Adapter**	**PC Card**	**PCI Adapter**
Part Numbers			
single	53F6425	0933315	05J4401
5 pack	N/A	92G9014	N/A
Features			
Modes: CUT, 87E, DFT*	Yes	Yes	Yes
Plug and Play	No	Yes	Yes
**DFT mode is supported only on controllers with the DFT feature installed.*			
Software configurable	No	Yes	Yes
Connectors	Coax (BNC)	Coax (BNC)	Coax (BNC)
Physical specifications			
Width:	146 mm (5.75 in.)	54 mm (2.13 in.)	174.6 mm (6.87 in.)
Depth:	19 mm (0.75 in.)	85.6 mm (3.37 in.)	19 mm (0.75 in.)
Height:	108 mm (4.25 in.)	5 mm (0.2 in.)	108 mm (4.25 in.)
Weight:	99.2 gm (3.5 oz)	42.5 gm (1.5 oz)	113.4 gm (4 oz)
Warranty	One year	Five years	One year
Country of origin	U.S.A.	U.S.A.	U.S.A.
Operating environment	Temperature: 10° to 35°C (50° to 95°F) Relative humidity: 8% to 85% (non-condensing)		
Agency approvals	The ISA and PCI adapters meet FCC Class A, the PC Card Adapter meets FCC Class B and all adapters meet the EU EMC Directive (CE Mark) and VCCI Class A (0 dB) operating criteria when connected by an IBM-supported adapter cable to a host or remote controller.		
Publications	All 3270 Emulation Adapter publications are shipped with their respective products.		

Innovation that protects your investment

IBM continues to support the 3270 architecture, data stream and product family with the announcement of the 3270 Emulation PCI Adapter. This addition to IBM's Emulation family of adapters has one major advantage over a LAN adapter: convenience. The 3270 Emulation card does not require special addresses or reconfigurations when the computer is moved from one office location to another. Use the latest in PC technology and still have access to your original host system applications using your existing wiring topology. Innovation that protects your investment-both now and in the future.

Year 2000 ready

This product does not have date dependencies and is therefore Year 2000 ready.



For more information

To find out more about the IBM 3270 Emulation Adapters and other high-performance IBM communications and networking products, contact your IBM representative or call IBM Direct at 1 800 IBM-CALL (1 800 426-2255). You can also access the IBM Networking Home Page at *www.networking.ibm.com*.

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