



# Options by IBM: Intel Pro/100S Desktop Ethernet Security Adapters

## Overview

IBM continues to enhance its Ethernet Security Adapter offerings, helping to ensure the secure transmission of your vital electronic data, by introducing the **Intel Pro/100S Desktop Adapter** and **Intel Pro/100S Desktop Low Profile Adapter**.

These Ethernet adapters offer network security features along with a rich combination of industry-leading performance and functions for desktop PCs. The adapters support Internet Protocol Security (IPSec) and are capable of encrypting and decrypting data packets as they are sent and received over the LAN. This helps protect proprietary data from unintended or unauthorized access.

In addition to industry-leading performance, the adapters offer outstanding throughput and efficient utilization of the desktop PC's CPU. With support for packet prioritization (IEEE 802.1p) and Virtual LANs (IEEE 802.1Q), these adapters also optimize throughput of data for crucial applications.

These new Ethernet security adapters provide the following features enabling greater PC manageability and lower support costs:

- Wake on LAN® support
- PXE-compliant remote boot flash EPROM
- Desktop Management Interface (DMI) 2.0 instrumentation
- Tivoli® Management Agent
- Wired for Management 2.0

## Key Prerequisites

- The Intel Pro/100S Desktop Adapters can be installed in any PCI-slot equipped, Intel Pentium™-architecture processor, IBM or non-IBM PC. The low-profile adapter version allows installation in the latest desktop PCs.
- Use of the Wake on LAN function requires a PCI 2.2-compatible PC that supports Wake on LAN and provides auxiliary 3.3 V power through the PCI bus.
- Use of the IPSec function requires the PC to be running Windows® 2000, or another operating system that supports IPSec security.

## Planned Availability Date

May 31, 2001

## At a Glance

The Intel Pro/100S Desktop Adapters provide secure attachment to a 10BASE-T or 100BASE-TX Ethernet LAN for desktop PCs with a PCI bus interface.

Benefits include:

- Support for Internet Protocol Security (IPSec) encryption and decryption of LAN traffic from and to the PC in Windows 2000 environments
- Industry-leading performance, with excellent throughput and CPU utilization
- Wake on LAN, PXE-compliant remote boot support, DMI 2.0 instrumentation, and Tivoli Management Agent offering advanced PC manageability
- Support for packet prioritization (IEEE 802.1p) and Virtual LANs (802.1Q)
- Simple installation with Plug and Play and auto-negotiation of speed and duplex mode
- Compliance with PC99, ACPI, Wired for Management 2.0, and IEEE 802.3 industry standards
- Both standard and low-profile PCI adapter versions for use in the latest desktop PCs

For technical support:

- Request technical information via the IBM Personal Computing Division (PCD) Web site at <http://www.ibm.com/pc/support> or IBM FaxBack (800-426-3395)

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## Additional Information

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Description	Part Number	IBM List Price*
Intel Pro/100S Desktop Adapter (Single Pack)	22P4501	\$62
Intel Pro/100S Desktop Adapter (Card Pack)	22P4510	54
Intel Pro/100S Desktop Low-Profile Adapter (Single Pack)	22P4701	62
Intel Pro/100S Desktop Low-Profile Adapter (Card Pack)	22P4710	54

\* IBM price; does not include tax or shipping and is subject to change without notice. Reseller prices may vary.

### ***Accessibility by People with Disabilities***

The following features support use by people with disabilities:

Ports and connectors support connection of industry-standard devices.

### ***Trademarks***

Wake on LAN is a registered trademark of International Business Machines Corporation in the United States or other countries or both.

Pentium is a trademark of Intel Corporation.

Windows is a registered trademark of Microsoft Corporation.

Tivoli is a registered trademark of International Business Machines Corporation or Tivoli Systems Inc. in the United States or other countries or both.

Other company, product, and service names may be trademarks or service marks of others.



## IBM US Announcement Supplemental Information

May 22, 2001

### Intel Pro/100S Desktop Adapters

- Intel Pro/100S Desktop Adapter — Single Pack (22P4501)
- Intel Pro/100S Desktop Adapter — Card Pack (22P4510)
- Intel Pro/100S Desktop Low Profile Adapter — Single Pack (22P4701)
- Intel Pro/100S Desktop Low Profile Adapter — Card Pack (22P4710)

**Product Positioning:** The Intel Pro/100S Desktop Adapters join the current IBM 10/100 EtherJet™ PCI Management Adapter (34L1201) and the IBM 10/100 EtherJet PCI Adapter with Alert on LAN™ 2 (34L1101) in the lineup of Ethernet adapters for desktop PCs. These new desktop adapters are intended to replace both the 3DES and DES versions of the 10/100 EtherJet Secure Management adapters (34L4401, 34L4501), made possible by changes in U.S. regulations, allowing export of 3DES and replacing the 10/100 EtherJet PCI Adapter with Alert on LAN 2 (34L1101), made possible by adapter cost reductions.

The new adapters are offerings intended for use by customers who require secure transmission of LAN traffic and who are implementing security policies across their networks.

### Technical Information

**Performance Specifications:** The adapters enable connection to an Ethernet network supporting 10BASE-T or 100BASE-TX.

### Physical Specifications

- Approximate height: 121 mm (4.7 in) with standard bracket, 80 mm (3.1 in) for low-profile version of the desktop adapter
- Approximate width: 121 mm (4.7 in)
- Approximate depth: 21 mm (0.8 in)
- Approximate weight: 0.07 kg (0.15 lb)

### Operating Environment

- Operating temperature (card): 0° to 55°C (32° to 131°F)
- Relative humidity: 8% to 80% (non-condensing)

### Agency Approvals

- IEC 950
- FCC Part 15 Class B and Part 68
- CE Mark
- UL
- CUL
- VCCI
- BSMI
- MIC
- MED

**ENERGY STAR-Compliant:** No

**Hardware Requirements:** The Intel Pro/100S Desktop Adapters can be installed in any PCI-slot equipped Intel Pentium™-architecture processor, IBM or non-IBM PC. The low-profile adapter should be ordered for use in low-profile desktop PCs.

**Software Requirements:** The desktop adapter is shipped with drivers for all leading operating systems. The following operating systems are supported:

- Microsoft™ Windows® 95, 98, 2000, Me
- Microsoft Windows NT®, Version 3.51, or later
- Novell NetWare, Version 3.12, or later
- OS/2 Warp®, OS/2® Warp Connect, Version 4.0, or later
- SCO UnixWare 2, UnixWare 7
- Microsoft Windows for Workgroups, Version 3.11
- Microsoft LAN Manager
- Linux

**Compatibility:** On some systems the default resource values may result in conflicts, requiring a change in these values.

**Note:** Some configurations may not be compatible.

### Limitations

- Use of the Wake on LAN® function requires a PCI 2.2-compatible PC that supports Wake on LAN and provides auxiliary 3.3 V power through the PCI bus.
- Use of the Internet Protocol Security (IPSec) function requires the PC to be running Windows 2000, or another operating system that supports IPSec security.
- The Alert on LAN feature is not supported by this adapter or future IBM desktop PCs.

### Planning Information

**Cable Orders Required:** An adapter cable is not included with these adapters. The appropriate cabling must be used when connecting to an Ethernet network:

- UTP-3, -4, or -5 cable with RJ-45 connectors for 10BASE-T networks
- UTP-5 cable for 100BASE-TX networks

**Ethernet on IBM Cabling System:** Many token-ring networks were installed using the IBM Cabling System, which utilizes 150 ohm shielded twisted-pair (STP) cabling terminated with IBM Data Connectors. For customers migrating their networks from token-ring to Ethernet, the cost of rewiring to 100 ohm unshielded twisted-pair (UTP), the cabling standard for Ethernet, can be significant. IBM demonstrates its leadership in assisting customers with network migration by offering the IBM Fast Ethernet on STP Cable. This innovative IBM-designed technology enables 10BASE-T Ethernet or 100BASE-TX Fast Ethernet to run over existing STP networks up to link lengths of 10

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meters. No rewiring is necessary, minimizing downtime and expense. The Fast Ethernet on STP Cable is designed with a shielded RJ-45 jack for connection to Ethernet devices, and an IBM Data Connector for connection to the wall plates or patch panels of the IBM Cabling System (STP). Two versions are available, a four-foot cable (31L3819) and an eight-foot cable (31L3820). These cables are ordered separately from Ethernet devices.

**Installation Time:** Operating system dependent

**Packaging:** One box

**Shipment Group:** One of the following:

- Intel Pro/100S Desktop Adapter with Software/Manuals CD — Single Pack (22P4501)
- Intel Pro/100S Desktop Adapter — Card Pack (22P4510)
- Intel Pro/100S Desktop Low Profile Adapter with Software/Manuals CD — Single Pack (22P4701)
- Intel Pro/100S Desktop Low Profile Adapter — Card Pack (22P4710)

**Note:** The Hardware Maintenance Manual has been discontinued.

### **Security, Auditability, and Control**

This product uses the security and auditability features of the host hardware.

### **Terms and Conditions**

Field-Installable	Yes
Customer Setup	Yes
Limited Warranty Period <sup>1</sup>	IBM Limited Lifetime
Service Type	CCE
Maintenance Agreement	No
Optional Upgrade	No
Central Facility Maintenance Service (CFMS) Option	No
Licensed Programs	Yes

All other terms and conditions are the same as those applicable to the IBM machine type in which the feature is installed.

<sup>1</sup> Information on and copies of IBM's statement of limited warranty can be obtained by calling the HelpCenter® at 800-772-2227, by contacting your reseller, or by accessing the online services listed in the **Help and Service Information** section.

### **Help and Service Information**

During the warranty period, technical support can be obtained by accessing IBM's online services or calling the HelpCenter (800-772-2227), to answer questions regarding your new IBM option. Response time will vary depending on the number and nature of calls received. If you need warranty service, return or exchange is available. In addition, if your IBM option is installed in an IBM computer, you may be entitled to service at your location. Your technical support representative can help you determine the best alternative.

### **Accessing IBM Online Services**

- IBM Web site at <http://www.ibm.com/pc/support>
- IBM Fax system at 800-426-3395

## **Prices**

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### **Trademarks**

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