

*Full compatibility reduces network complexity  
and support costs*



## IBM Turbo 16/4 Token-Ring PC Card

- **Easy to install, configure and use**
- **Members of the PC Card Adapter Family for both Ethernet and Token-Ring LAN connections**
- **Adapters for a wide range of network operating systems, such as IBM OS/2<sup>®</sup> LAN Server, Novell<sup>®</sup> NetWare<sup>®</sup>, Banyan VINES, Microsoft<sup>®</sup> Windows NT<sup>®</sup>, Windows<sup>®</sup> 95 and LANManager**
- **Lightweight, flexible cabling options for multiple network modes such as STP or UTP for Token-Ring LAN**
- **Patented locking mechanism**
- **Supports IBM and non-IBM laptop or notebook computers**
- **RPL—standard feature on all IBM Token-Ring adapters**



The IBM Turbo 16/4 Token-Ring PC Card delivers full LAN capabilities to portable systems and desktops by providing attachment to Token-Ring LANs operating at either 16 or 4 Mbps over UTP or STP media. It is a high-performance LAN adapter capable of full-duplex (FDX) operation when connected to an FDX switch. Variable I/O port-addressing eliminates conflicts with existing devices by providing more usable interrupt levels. The Turbo 16/4 Token-Ring PC Card gives you maximum configuration flexibility by offering more I/O address choices than our previous adapters could. It replaces, and is compatible with, the IBM Token-Ring Auto 16/4 Credit Card Adapter.

# Product Overview

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The IBM Turbo 16/4 Token-Ring PC Card offers performance and reliability equal to that of IBM's Turbo Token-Ring ISA adapters. It uses less memory, performs significantly faster, supports dedicated Token Ring, has greater I/O port addressability to enable easier installation and comes with a new and easy-to-use installation aid.

The Turbo 16/4 PC Card is activated only when its cable is attached, so you can leave it in your computer even when it's not in use. Instead of removing the card, just disconnect the cable to deactivate it. The deactivated adapter does not use any battery power even though it remains in your notebook. This convenient feature helps eliminate misplaced cards and enhances the mobility of your notebook computer.

This adapter provides Token-Ring access for the most popular network operating systems, applications and transport services. It is targeted for the mobile PC user and is compatible with all IBM and non-IBM machines with PCMCIA Type II or III slots.

### Benefits

- Superior performance
- Operates in hosts equipped with PCMCIA Type II or III slot
- Expanded and variable I/O port addressing
- Support for today's leading operating and network operating systems:
  - DOS
  - LAN Client
  - OS/2 Warp
  - Windows 3.1+, Windows 95, Windows NT, Windows for Workgroups
  - Novell NetWare
- RJ-45 cable option
- 9-pin D-shell plus RJ-45 cable option
- Automatic ring-speed detection and selection
- FCC Class B, CISPR 22B, VCCI B certification
- Automatic FDX operations when connected to a Dedicated Token-Ring (DTR) switch like the IBM 8272 Token-Ring Switch

Adapters

Token-Ring

Feature	Turbo 16/4 Token-Ring PC Card
Bus	PCMCIA Type II or III
Software configuration	Yes
System interface	Shared RAM (SRAM)
Data width	16
LEDs	No
Auto ring-speed detect	Yes
Auto ring-speed adjust	Yes
Auto media-select	Yes
LANAID	Yes
IBM LAN Client	Yes
FDX and DTR enabled	Yes
UTP/STP	Yes
LSP included	Yes
RPL included	Yes
SMP	N/A
Network interface	RJ-45 or 9-pin D-shell
FCC class	B
Wake on LAN	N/A
Promiscuous mode enabled	N/A

# Turbo 16/4 Token-Ring PC Card Specifications

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<b>Media connectors</b>	RJ-45 (UTP) STP
<b>Physical specifications</b>	Width: 54 mm (2.1 in.) Depth: 85.6 mm (3.4 in.) Height: 5 mm (0.2 in.) Weight: 42.5g (1.5 oz.)
<b>Operating environment</b>	Temperature: 0° to 55°C (32° to 131°F) Relative humidity: 5% to 95% Maximum wet bulb temperature: 23°C (73°F) Electrical power: 5 V dc Certification: FCC Class B

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## Supplementary Information

The following sales tools are available for the IBM Turbo 16/4 Token-Ring PC Card:

- Specification sheets:  
*IBM Token-Ring LAN Adapter Family*, G221-4512-01  
*IBM PC Card LAN Adapter Family*, G221-3456-06
- Information on the IBM Turbo 16/4 Token-Ring PC Card is available at:  
[www.networking.ibm.com/netprod.html#token](http://www.networking.ibm.com/netprod.html#token)
- For information on Token-Ring drivers, business partners can access information on the NETeam web site at:  
[www.networking.ibm.com/NETeam](http://www.networking.ibm.com/NETeam)

IBMers can access this information at:  
[wwwidd.raleigh.ibm.com/ntm/protected/ntmmembr.html](http://wwwidd.raleigh.ibm.com/ntm/protected/ntmmembr.html)