

IBM ATM Adapters

- **Available in speeds of 25 and 155 Mbps**
- **Easy-to-use configuration and diagnostics**
- **ATM to the desktop**
- **ATM Forum-compliant LAN Emulation (LANE) and Classical IP included with the adapters**
- **Internal microcode stored in EPROM, allowing for future enhancements through microcode updates**
- **Bandwidth allocation and management**

IBM's ATM products bring ATM capabilities all the way to the desktop PC and provide a cost-effective migration path from today's shared LAN environment to LAN switching and, ultimately, to the high-performance, dedicated connections of ATM, while preserving customer investment in cabling and applications.

Product Overview

The TURBOWAYS® 25 Adapter connects to the ATM network via the the IBM 8285 Nways ATM Workgroup Switch, the 8260 Nways Campus Switch, or the 8265 Nways ATM Switch. The adapter supports up to 32 full-duplex (FDX) virtual circuits. Only one TURBOWAYS 25 Adapter may be installed in a system. The adapters use low-cost UTP cable, Category 3, 4 or 5, or STP cable for distances up to 100 m (328 ft), also capitalizing on the wiring already installed.

The TURBOWAYS 25 ATM Adapter is positioned as a low-cost client adapter that brings high-bandwidth ATM connectivity to PCI-bus desktop PCs running under DOS, Windows® or OS/2®. Including Forum-compliant LANE and Classical IP with the adapters makes them cost-effective upgrades to your existing Ethernet or Token-Ring infrastructure, providing a 25-Mbps, FDX connection to the ATM network.

IBM offers 155-Mbps ATM capability through the Interphase 155 ATM Adapter

The Interphase 5515 PCI Adapter includes the following features:

- UTP (category 5) or multimode wiring
- Support for ATM Forum-compliant LANE, Classical IP for Windows NT and SMP environments
- Support for NetBIOS, SNA, IPX and TCP/IP

TURBOWAYS 25 ATM PCI Adapter Specifications

System requirements	<ul style="list-style-type: none">• PC workstation with 486 or higher processor• 32-bit PCI local bus slot that supports busmaster capability and meets the universal pinout for either 3.3-volt or 5-volt signaling• 8-MB RAM
Drivers	<ul style="list-style-type: none">• PC DOS 6.3 or higher• MS-DOS 6.2 or higher• Windows 3.1 or Windows NT® 3.5/4.0, W95• OS/2 Warp 3.0/4.0
Cabling and connector	STP or UTP (category 3, 4 or 5) wiring with RJ-45 connector
Standards support	<ul style="list-style-type: none">• ATM Forum UNI Specification V3.0 and V3.1 for SVCs• AAL-5 adaptation level• NDIS 2.01 and 3.1 network device interface specification
Protocols enabled	<ul style="list-style-type: none">• NetBIOS, SNA, IPX and TCP/IP through LANE• TCP/IP through Classical IP
Environment	Forum-compliant LANE or Classical IP
Physical specifications	
Width:	76.2 mm (3 in.)
Depth:	15 mm (0.6 in.)
Height:	157.5 mm (6 in.)
Operating environment	
Temperature:	10° to 40°C (50° to 104°F) Class C environment
Relative humidity:	8% to 80%
Certification:	FCC Class B, CISPR B and VCCI B

Interphase 155-Mbps 5515 PCI Adapter Specifications

System requirements	<ul style="list-style-type: none">• PCI 2.1-compliant or PowerPC workstation with 486 or higher processor• DMA master, zero-wait state bus access• 32-bit data transfer• 16-MB RAM
Drivers	See www.networking.ibm.com for the current version of NetWare or Windows NT drivers supported.
Cabling and connectors	<ul style="list-style-type: none">• UTP (category 5) wiring with RJ-45 connector (UTP5)• 62.5-micron, plenum-rated multimode fiber terminated with an industry-standard SC connector (MMF Adapter)
Standards support	<ul style="list-style-type: none">• ATM Forum UNI Specification V3.0 and V3.1 for SVCs (including permanent virtual circuit [PVC])• AAL-5 adaptation layer interface• Open data link interface• NetWare device driver specification• OC3
Protocols enabled	NetBIOS, SNA, IPX and TCP/IP
Environment	<ul style="list-style-type: none">• Forum-compliant LANE• Classical IP• SMP
Physical specifications	
Depth:	1676 mm (6.6 in.)
Height:	106.4 mm (4.2 in.)
Weight:	112 g (3.95 oz)
Operating environment	
Temperature:	0° to 55°C (32° to 131°F) Class B environment
Relative humidity:	10% to 95%
Certification:	FCC Class A, CSPR A, VCCI A

Key Customer Benefits

- Customers who are ideal prospects for ATM will be those who need to:
 - Increase LAN bandwidth
 - Avoid re-segmenting via dedicated ATM connections
 - Improve overall network performance
 - Enable new, high-bandwidth application development
 - Reduce network latency
 - Meet multimedia requirements of mixed data streams such as voice, video and data at the desktop
- Scalability offered by the adapters
- High-performance levels of the adapters
- Ideally suited for high-volume, high-capacity applications
- Adherence to standards
- Protection of investment in cabling, applications and hardware
- Interoperability with other vendors' equipment
- Competitively priced

Supplementary Information

The following sales tools are available for the TURBOWAYS ATM Adapters:

- Specification sheet:
IBM TURBOWAYS Family of ATM Adapters, G224-4486-00
- Information on the TURBOWAYS ATM Adapters is available at:
www.networking.ibm.com/tbo/tboprod.html.