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Adaptec® ATM155™ for PCI

Standards-based 155 Mb/s ATM network interface cards for PCI systems

PRODUCT HIGHLIGHTS

- **Full-duplex 155 Mb/s connection to ATM network for PCI workstations**

- **LAN Emulation and Classical IP over ATM for transparent integration with existing LANs**

- **Up to 1,024 virtual circuits supported with either SVCs or PVCs**

- **Manageable through SNMP and ATM Forum ILMI MIB**

- **Ideal for either workstations or workgroup server applications**

- **Network operating system drivers such as Windows NT™, NetWare and OS/2, DOS, Windows®, and Windows® 95**

OVERVIEW

With the Adaptec ATM155 family of Asynchronous Transfer Mode (ATM) network interface cards (NICs), users can take full advantage of powerful, business-critical applications. The Adaptec ATM155 NICs eliminate network bottlenecks, increase data rates, and enable full-duplex transmission for two-way simultaneous data movement. The Adaptec ATM155 NICs integrate seamlessly with traditional local area networks because they are interoperable with major vendors' ATM switches, routers, concentrators, and edge devices, required to merge existing LANs with ATM.

KEY BENEFITS

Accelerated performance

Adaptec ATM155 NICs are single-slot PCI adapters with high-performance, high-efficiency, standards-based, custom-silicon architectures that implement both the ATM Adaptation Layer (AAL) 5 protocol and PCI Bus interface. AAL5 cells are reassembled onboard into frames, and non-AAL5 cells are passed through into host memory. Adaptec ATM155 NICs deliver 155 Mb/s of full-duplex

data stream capacity with up to 1,024 virtual channel identifiers (VCIs). These NICs are available for either multimode fiber (MMF) or Category-5 unshielded twisted pair (UTP 5) media.

Interoperability made easy

The Adaptec ATM155 NICs support both permanent virtual circuits (PVCs) and switched virtual circuits (SVCs) with signaling software conforming to ATM Forum UNI 3.0 and UNI 3.1 standards. All Adaptec ATM adapters are certified in Adaptec's Interoperability Lab for operation with ATM Forum-compliant switches, routers, concentrators, and edge devices from major vendors such as IBM, FORE Systems, Whitetree, and First Virtual. This interoperability allows users to choose ATM solutions that preserve their LAN network infrastructure and permits migration to ATM networks at their own pace. Also, because Adaptec ATM155 NICs support Classical IP over ATM (RFC-1577) and conform to ATM Forum standards for LAN Emulation version 1.0, users do not have to depend on a single vendor for proprietary ATM solutions.
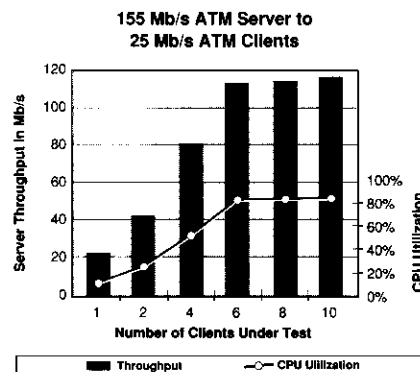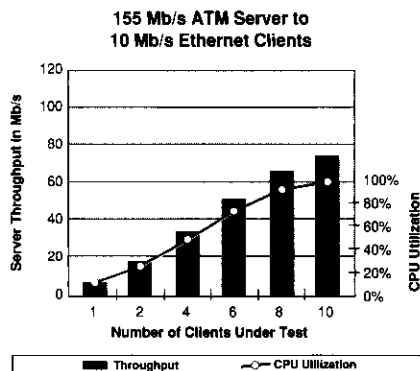
A growth path for the future

Adaptec is committed to supplying the most technologically advanced solutions available. The Adaptec ATM155 NICs include complete ATM software for all major operating systems. As new products and technologies emerge, Adaptec updates software drivers to meet user needs.

Performance Measurements

155 Mb/s ATM Server to 10 Mb/s Ethernet Clients

Number of Clients Under Test

■ Throughput —○— CPU Utilization

155 Mb/s ATM Server to 25 Mb/s ATM Clients

Number of Clients Under Test

■ Throughput —○— CPU Utilization

Source: LANQuest
Platforms: Windows NT 3.51 server to
Windows NT 3.51 clients

The Adaptec Family of ATM Adapters

Product No.	Bandwidth (Mb/s)	Bus Type	Media Interface
Adaptec ATM25 NICs			
ANA™-5210	25	SBus	UTP 3, STP
ANA-5610	25	MCA	UTP 3, STP
ANA-5910	25	PCI	UTP 3, STP
Adaptec ATM155 NICs			
ANA-5230	155	SBus	UTP 5
ANA-5240	155	SBus	MMF
ANA-5930	155	PCI	UTP 5
ANA-5940	155	PCI	MMF

The Adaptec family of ATM adapters

The Adaptec ATM155 and Adaptec ATM25™ families of network interface cards currently support PCI, SBus and Micro Channel bus hardware platforms. Please check with Adaptec suppliers, Adaptec's Interactive Fax or the World Wide Web server for the latest information on environments supported.

A complete ATM product

The Adaptec ATM155 PCI NICs are available in the following configurations:

- ANA™-5940 PCI adapter: multimode fiber interface
- ANA-5930 PCI adapter: Category-5 UTP interface
- 133 MBytes/sec DMA burst rate on the PCI bus
- Protective cap for optics

All adapters include

- Complete user reference documentation
- Adaptec installation and configuration software
- LAN Emulation (client), Classical IP over ATM (RFC-1577) Client and UNI 3.0 and 3.1 drivers
- NOS drivers
- All OS drivers at no additional charge

TECHNICAL SPECIFICATIONS
HARDWARE:

Bus type: PCI

Size: Single-slot adapter

Network interface speed: 155 Mb/s

Buffer memory: 512 KB

Physical interface: SONET over multimode fiber (SC) or Category-5 unshielded twisted pair (shielded RJ-45 connector)

ATM Adaptation Layer supported: AAL5, with cell-based pass-through support of non-AAL5 cells

Virtual channel identifiers: Up to 1,024

OPERATING SYSTEM SUPPORT:

Windows NT versions 3.5x and 4.x, Windows 95, DOS/Windows 3.1x, OS/2 Warp, NetWare Server 3.12 and 4.x

ATM SOFTWARE:

Signaling: ATM Forum UNI 3.0, Q.93B; ATM Forum UNI 3.1, Q.2931

ILMI: Full support for both UNI 3.0 and UNI 3.1

LAN Emulation: Version 1.0 for NetWare, Windows NT™, Windows®95, DOS/Windows®, OS/2

Classical IP over ATM (RFC-1577): Windows NT, DOS/Windows, OS/2 Warp

Classical IP over ATM server (optional): Windows NT

Network management: SNMP Network Management agent software with GUI and command line-based diagnostics

OTHER:

5-year warranty

Operating temperature: 5°C to 55°C

Operating humidity: 20% to 90% non-condensing

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