IBM 8265 Nways ATM Switch

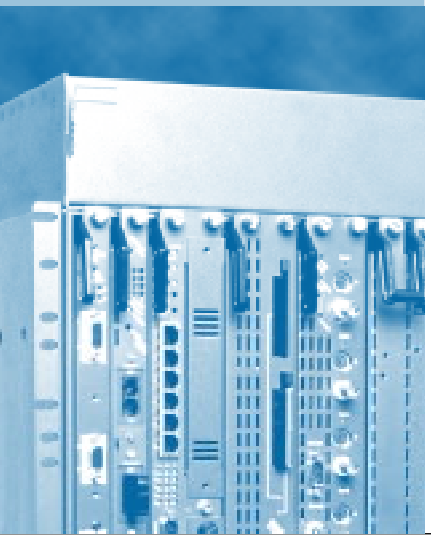
IBM's next-generation ATM switching technology for high-speed switched networks

Industry-leading bandwidth, price/performance, standards-based ATM functionality

Advanced traffic management functions such as:

- **Priority queues per Quality of Service (QoS)**
- **Policing per virtual circuit (VC)**
- **Traffic shaping by virtual path (VP)**
- **Statistics per VCs**
- **Buffering**
- **Port mirroring**

Superior ATM Control Point



General description

Introducing the next generation of high-end ATM backbone networks — the IBM 8265 Nways ATM Switch. It's the most powerful of IBM's growing family of ATM switches, with an open architecture designed to address ATM backbone network requirements for high switching capability, high port density and high reliability. If you need a switched backbone based on OC3 and OC12 ATM switching for concentration of campus LANs, high-speed, wide-area ATM connections and native ATM attachment of high-speed servers, the 8265 is an excellent choice.

The 8265 is capable of up to four times the cell-switching capability of current 8260 models, with a substantial increase in bandwidth available to each module in the modular ATM chassis. And it offers a wide range of ATM connectivity — 25 Mbps for business desktops, variable nonblocking backbone uplinks at OC3 or OC12 levels and wide-area connection speeds of E1, T1, J1, E3, DS3, J3, OC3 and STM-1. With 56 OC3 ports, 14 OC12 ports and WAN interfaces from T1/E1 to OC3 speeds, the 8265 is well equipped to handle the transmission speeds your network requires. Not to mention other important ATM services like MSS, MPEG-2 Video Distribution Module, circuit emulation and LAN/ATM switching modules. And one of the 8265's most winning features is its attractive price. All this bandwidth and connectivity are actually affordable.

Like all IBM ATM products the 8265 is standards-based. It adheres to ATM Forum standards for PNNI and Interim Inter-Switch Protocol (IISP), as well as Classical IP over ATM (CIP, RFC 1577) and LAN Emulation (LANE) standards. It supports MIB 2, IETF AToM MIB and the ATM Forum PNNI MIB.

Hot buttons

- High availability for mission-critical operations
- Investment protection for, migration from and compatibility with current 8260 ATM
- Circuit emulation support for integrating voice and other non-data applications into the ATM environment
- Robust wide-area ATM enabled by key features such as PNNI, WAN interfaces and traffic shaping by virtual path
- Completely nonblocking backbone switch offers full wire speed switching on up to 14 OC12 or 56 OC3 ports simultaneously

Reasons to choose the IBM 8265

- Reduced cost and time, improved network utilization
- Nonblocking switching architecture
- High port density and scalable network configurations
- Increased switching capacity
- Flexibility and cost reduction over earlier solutions
- Investment protection and a planned migration path

IBM versus the competition

Features	*IBM 8265*	*Cisco Cat5500 (w/ATM)*	*Fore Systems LS1010*	*Bay Networks 5000BH ASX-1000*
Integrated LANE server function	Yes (MSS option)	Yes	Yes	Yes
Integrated Layer 2/3 cut-through switching	Yes (MSS option)	No	No	No
NHRP Routing Protocol	Yes (MSS option)	No	No	No
Integrated policy-based VLAN management	Yes (MSS option)	No	No	No
Super ELAN function	Yes (MSS option)	No	No	No
Integrated broadcast management	Yes (MSS option)	No	No	No
PNNI-1	Yes (feature) (1 peer group) (both shortest and widest path algorithms)	Yes (feature) (1 peer group)	No	No

Ordering information

IBM 8265 Basic Minimum Machine Configuration	
Feature code	*Description*
	Hub chassis with ATM backplane Model 17S
8000	1 Controller Module
8027	Power Supplies (1 to 4) ac 415 W
or	
8026	Power Supplies (1 to 4) dc 48W
	Power cord (country-dependent)
6501	Control Point Switch Module
6505	PCMCIA card with IISP code (R 1)
6526	PCMCIA card with IISP code (R 2)
or	
6506	PCMCIA card with PNNI code (R 1)
6526	PCMCIA card with PNNI code (R 2)
6501	CPSw memory upgrade (required for PNNI code)
3150	Code Download Kit

For more information

Visit the IBM Networking Home Page at www.networking.ibm.com.

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