IBM Enhanced Nways LAN Switching Solutions Fact Sheet

Realizing a vision: superior switching technology for your network today and tomorrow

11 March 1997

Announcement Summary

With this announcement IBM enhances its superior line of switching technology. As part of the strategy to help you build powerful, flexible networks, IBM announces several additions to its stand-alone, workgroup switch family and new powerful backbone switching options.

IBM offers the following new options in stand-alone switches and switch peripherals:

- IBM 8274 Nways™ LAN RouteSwitch Model W53
- IBM 8274 Nways LAN RouteSwitch Model W93
- IBM 8276 Nways Ethernet RoutePort Models 360 through 365
- IBM 8270, 8271 and 8272 Nways LAN Switch FDDI Universal Feature Card (UFC)
- IBM 8270 and 8272 Nways LAN Switch RMON UFC
- IBM 8273 Nways LAN RouteSwitch Frame Relay submodules
- IBM 8274 Nways LAN RouteSwitch FDDI Modules

New 8274s pave the way for smooth growth and additional function to be provided by future switching modules. Like Models 513 and 913, new wide-slot Model W53 provides four module slots, and Model W93 provides eight module slots for switching modules that are hot-swappable and hot-insertable. You can use any of the currently offered Ethernet, Fast Ethernet, Token-Ring, ATM and FDDI switching modules in these new models. The new models must be configured with at least one Management Processor Module (MPM-1G).

The IBM 8276 Nways Ethernet RoutePort is a segmented, high-density, Ethernet port-switching concentrator with thirty-six 10BASE-T ports. This concentrator is available in 6 models that allow 1 or 2 of those 36 ports to be substituted by 1 or two 10BASE-FL single-mode or multimode fiber ports. With up to four segments, the RoutePort extends the IBM 8271 Nways Ethernet LAN Switch, the IBM 8273 Nways Ethernet RouteSwitch and the IBM 8274 Nways LAN RouteSwitch capabilities to more desktops and users, giving them access to features such as high-speed uplinks, the industry's most powerful virtual LANs (VLANs), ATM LAN Emulation (LANE), IP and IPX routing and even Frame Relay. Each user gains the benefits of enhanced network flexibility and improved network performance, at an affordable price, and without a dedicated switch port!

The IBM 8274 Nways LAN RouteSwitch brings new options in ATM switching with the RouteCell Switching Modules (preview). The following RouteCell Switching Modules are included:

- 8-port, OC3 Module with multimode optical fiber connections

- 8-port, OC3 Module with single-mode optical fiber connections
- 2-port, OC12 Module with multimode optical fiber connections
- 2-port, OC12 Module with single-mode optical fiber connections
- Frame-to-Cell Switching Module

Created solely for Models 513, 913, W53 and W93, these modules provide true ATM switching capability. When installed, the Frame-to-Cell Switching Module provides segmentation and reassembly of legacy frames from the frame-switching modules already installed in these models. With these new ATM modules installed, the MPM contains the LAN Emulation Client Server (LECS), the LAN Emulation Server (LES) and the Broadcast and Unknown Server (BUS) capability along with ARP server function. With the ATM switching modules, the 8274 is flexible enough to provide a backbone ATM function and edge-switch capability depending on its intended function in the network.

IBM offers a new Management Processor Module (MPM-1G) for the 8274 switches. Like the current 16-MB MPM, the MPM-1G contains 16 MB of DRAM, 4 MB of flash memory and connection to the Management Bus as well as the Frame Bus (VBUS). But unlike current offerings the MPM-1G can operate the Frame Bus at 960 Mbps and can be upgraded with a Hardware Routing Engine (HRE) Module–an optional, daughter-card feature–which provides a hardware routing engine.

HRE Module for the 8274 performs the IP and IPX routing functions previously done in software. The MPM-1G is a prerequisite for the HRE.

Two- and four-port Frame-Relay WAN Switching Submodules are available for the 8273 Nways Ethernet RouteSwitch. The 8273 Nways Ethernet RouteSwitch now connects LANs, WANs or both in multiple combinations to form a physically integrated network that transports multiple networking protocols. The new WAN Switching Modules provide WAN connections for the 8273. With the exception of compression support (the two-port module does not support compression, the four-port module does support compression), these two new submodules are identical in function to the four-port WAN Switching Modules currently offered for the 8274 LAN RouteSwitch.

A new RMON UFC for LAN switches provides remote monitoring functions for the 8270 Model 800 and the 8272 Model 216. This UFC provides an integrated RMON agent that interfaces with the Nways RMON Manager or other RMON applications, using standard RMON MIBs.

An FDDI UFC provides new possibilities for the IBM Nways 8270, 8271 and 8272 line of campus LAN switches. These new cards include dual-attach station (DAS) and single-attach station (SAS) interfaces attached with multimode optical fiber, and a SAS interface attached with UTP category 5 wiring. The FDDI UFC connects these switches to an FDDI server or FDDI backbone.

The IBM Nways RouteSwitch Network Management Suite Version 3.0 refreshes and enhances its network management programs. You can expand your LAN connections by taking advantage of the new high-speed RouteCell Switching Modules (previewed) soon to be offered on the 8274. This network software helps your company ensure that your network of multivendor equipment operates efficiently, while at the same time providing advanced routing and IP filtering capabilities.

Announcement highlights

The IBM Nways LAN Switch family now includes the following new switches, modules, UFCs and software:

- IBM 8274 Nways LAN RouteSwitch Models W53 and W93
- IBM 8276 Nways Ethernet RoutePort Models 360 through 365
- IBM 8274 Nways LAN RouteCell ATM Switching Modules (preview)
- MPM-1G for all 8274 Models
- HRE Module for the 8274
- IBM 8273 Nways Ethernet RouteSwitch 2- and 4-port Frame Relay Submodules
- 8270 and 8272 Nways LAN Switch RMON UFCs
- 8270, 8271 and 8272 Nways LAN Switch FDDI UFCs
- Enhanced network management programs, RouteSwitch software programs and new ATM RouteCell Software Program for high-speed switching, and two new management programs to provide advanced routing

Additional technical details

IBM 8274 Nways LAN RouteSwitch Models W53 and W93

Like the current Models 513 and 913, these new models include the following features:

- Four slots for Model W53 and eight slots for Model W93, to accommodate switching modules that are hot-swappable and hot-insertable. Each of these slots is physically wider than the slots in Models 513 and 913.
- A single power supply adequate to power even the largest configuration. An optional, second power supply (separately priced and orderable) is available to provide redundant operation.

MPMs are separately priced and orderable. Each of these new 8274 models must be configured with at least one MPM-1G. You can order a second, redundant MPM of the same type. All of the Ethernet, Fast Ethernet, Token-Ring, ATM and FDDI switching modules currently offered for existing 8274 models are supported in the new 8274 models.

IBM 8276 Nways Ethernet RoutePort

The IBM 8276 Ethernet RoutePort complements IBM's powerful 8274 and 8273 RouteSwitches and the 8271 Ethernet switch. Used in combination with any of these switches, it extends the benefits of switching to the desktop. The RoutePort is a 36-port, 10BASE-T Ethernet repeater, concentrator and hub all in one box, that can be subdivided into as many as 4 LAN segments. Port assignments can be added, changed or moved from segment to segment with no disruption to users. The network administrator can dynamically segment the LAN to achieve load-balancing or to provide workgroup security without recabling and with greatly reduced effort. The Ethernet

RoutePort also provides, depending on the model, one or two single-mode or multimode optical fiber ports.

Six models are available, numbered 360 through 365. The distinction between models is the number and type of 10BASE-FL ports (single-mode or multimode) you want installed in your RoutePort, in addition to the fixed 10BASE-T Ethernet ports. For further details about the 8276 Nways Ethernet RoutePort, refer to publication number G224-4449-00.

IBM 8274 Nways LAN RouteCell ATM Switching Modules (preview)

The RouteCell ATM Switching Modules are a new subgroup of 8274 modules optimized for ATM cell-switching. Though supported for coexistence with any of the currently offered frame-switching modules for Models 513, 913, W53 and W93, these new RouteCell modules have connections to the 13.2-Gbps cell matrix only and are intended to provide ATM connections when you use these 8274 models as ATM switches (ATM-to-ATM). Each of the RouteCell Modules requires a Frame-to-Cell Switching Module (FCSM), a corequisite module previewed with these four new RouteCell modules. One FCSM is required in any 8274 configured with any of the following RouteCell modules:

- 8-port, 155-Mbps ATM multimode optical fiber
- 8-port, 155-Mbps ATM single-mode optical fiber
- 2-port, 622-Mbps ATM multimode optical fiber
- 2-port, 622-Mbps ATM single-mode optical fiber

Each of these RouteCell modules occupies one slot in any of the 13.2-Gbps models (513, 913, W53 and W93).

IBM Management Processor Module (MPM-1G) for 8274 models

Like the current MPM-II, a 16-MB MPM, this new MPM provides the following features:

- 16-MB DRAM
- 4-MB flash memory
- Connection to the Management Bus as well as the Frame Bus

You can use this MPM in any of the current and newly offered 8274 models. Unlike current MPM offerings, this new MPM-1G can operate the Frame Bus at 960 Mbps. Unlike the current MPMs, you can upgrade the MPM-1G with an HRE module (as a daughter-card feature to the MPM-1G), which provides an HRE.

IBM 8273 Nways Ethernet RouteSwitch 2- and 4-Port Frame Relay Submodules

These two new submodules provide WAN connections for the 8273. Each submodule offers two (or four) universal serial ports, which provide an external DTE connection. The two-port submodule does not support compression; the four-port submodule supports compression.

IBM 8270 and 8272 Nways LAN Switch RMON Universal Feature Card

The new RMON UFC provides an RFC 1513-compliant agent to collect and report data specified in all 13 of the MIB groups. You must install an RMON UFC in any of the switches you want to monitor. You can use the RMON UFC in the 8270 and 8272 Model 216 LAN switches.

This new UFC provides the following two monitoring modes:

- Single-port monitoring, where the UFC monitors data on a single port that you specify through configuration.
- All-port monitoring, where the UFC monitors all of the LAN segments attached to the switch concurrently on a roving basis. No external RMON probe is required.

IBM 8270, 8271 and 8272 Nways LAN Switch FDDI Universal Feature Card

These new UFCs provide a bridge between FDDI and Token-Ring LANs and are available with any of the following three types of connections:

- Single-attach station (SAS) UTP category 5
- Single-attach station (SAS) multimode optical fiber
- Dual-attach station (DAS) multimode optical fiber

These UFCs provide additional 100-Mbps uplink alternatives, allow interconnection of 8270s and 8272s using a FDDI backbone and provide bridge access from the Token-Ring ports to high-speed stations on the FDDI backbone. They are compatible with industry and international FDDI standards (ISO 9314/ANSI X3T9.5) and support FDDI station management (SMT 7.3). They perform IP fragmentation (RFC 1188) and have an SNMP agent that supports MIB II (RFC 1313) and the FDDI MIB (RFC 1512). Another application is high-speed connectivity between LAN switches and servers. For redundancy the DAS UFC supports dual-homing.

IBM Nways RouteSwitch Network Management Suite Version 3.0

This announcement offers a lot of value in a single switch. When you select IBM's RouteSwitch for your high-speed switching needs, you get great value at a low cost.

- 8273 and 8274 Nways RouteSwitch Software Program (NRSP) V 3 R 0 enhancements
  - Support for new 8274 Models W93, W53, FDDI Switching Modules, 8274 HRE and 8273 WAN Submodules
  - Supports RouteCell switching modules and software
    - 8-port, 155-Mbps and 2-port, 622-Mbps ATM SMF and MMF, FCSM and MPM-1G
    - ATM RouteCell Software (PNNI 1.0) (preview)
  - Offers ATM Token-Ring LAN Emulation Client (LEC) function, X-LANE Enhancement RFC 1483, enhanced diagnostics, IP multicast routing, Domain bridging, DHCP (BootP) and group mobility
- New Advanced Routing Software program
  - OSPF

  - RIP II

- Enhanced Network Management Software V 3 R 0.x including RouteTracker and RouteSwitch Network Manager
- New Network Management Software including RouteMonitor and RouteDirector

IBM 8274 Nways RouteSwitch Software Program

NRSP is the controlling software program that is loaded on the 8274 Nways LAN RouteSwitch. NRSP now provides software support for new 8274 models and several new switching modules, including the ATM RouteCell switching modules. The following new software programs have been added to the 8274 RouteSwitch software family. The new program provides enhanced internetwork capabilities to the 8274.

- IBM 8274 Nways RouteSwitch Advanced Routing Software Program
- IBM 8274 Nways ATM RouteCell Software Program (preview)

IBM 8273 Nways RouteSwitch Software Program

NRSP is the controlling software program that is loaded on the 8273 Nways Ethernet RouteSwitch. NRSP now provides software support for the new WAN submodules. The following new software program has been added to the 8273 RouteSwitch software family. The new program provides enhanced internetworking capabilities to the 8273.

- 8273 RouteSwitch Advanced Routing Software Program

IBM 8274 Nways RouteSwitch Advanced Routing Software Program

The program provides advanced functions such as OSPF and RIP-II. This new software program offers extended routing protocol capabilities, thus providing the 8274 with the advantages of additional routing functions all within a single switch.

IBM 8274 Nways ATM RouteCell Software (Preview)

The IBM 8274 Nways ATM RouteCell Software Program makes the 8274 the ultimate next-generation ATM LAN Switch. RouteCell software is for users who want high speed cell-to-frame switching. RouteCell function allows a network to migrate from shared-bandwidth solutions to high-speed ATM in the backbone, at servers and desktops and even to remote offices through wide-area links. You can reduce costs by connecting existing legacy LAN media into a RouteSwitch and gradually migrating users and remote offices to ATM when they are ready.

IBM Nways RouteSwitch Network Manager (NRNM)

This program provides complete configuration, monitoring and diagnostic information for your entire RouteSwitch network. Platforms supported by RouteSwitch Manager include HP OpenView for Windows, HP OpenView for UNIX®, SunSoft SunNet Manager and IBM NetView® for AIX®.

IBM Nways RouteTracker Manager (NRTM)

NRTM is a powerful graphical application that lets users create and manage policy-based virtual LANs.

IBM Nways RouteMonitor Manager (NRMM) Version 3

NRMM provides you with the ability to gather statistics and events from any individual RouteSwitch, or from any number of switches in the network.

IBM Nways RouteDirector Management (NRDM) Version 3

A network-wide ATM connection and service configuration and management tool, the NRDM is specifically designed to manage the RouteCell product line.

Benefits of IBM's LAN Switching Enhancements

Our new switching-product enhancements bring the following advantages to you:

- Scalability from workgroup to backbone switching support
- True ATM switching
- Power and variety
- Broad-range media translation
- Support for large address tables
- Access to FDDI servers and backbones
- RMON using standard MIBs

Positioning for IBM's Enhanced LAN Switching Solutions

- There is a LAN switch for you. IBM Nways RouteSwitches are for customers who want:
  - Extensive VLAN support, integrated routing with any-to-any connectivity such as:
    - Ethernet-to-ATM
    - Ethernet-to-FDDI
    - Fast Ethernet connectivity for workgroups
  - Functionality and higher port density
  - Significantly more configuration flexibility than has been available before
- The LAN switching software is attractive to customers who need:
  - LAN switching and ATM switching to the desktop and the backbone
  - Segmentation flexibility to reduce network administrative costs for growing Ethernet LANs with segment size and security concerns

  - High-speed, cell-to-frame switching at a low cost
  - High-speed, internetworking routing functions in a single switch
  - Central management and control of multiple firewall gateways, router access tables and database servers from a single workstation

- The new UFCs should be considered by customers who have or need:
  - LAN switch family devices such as the IBM 8270, 8271 or 8272
  - Ability to uplink to a FDDI backbone and connect to high-speed network servers via FDDI
  - Industry-leading RMON function that allows them to monitor and collect operational performance data from their Token-Ring switch network

The announcement and availability of these functions will be based on IBM's business and technical judgment. All information being released represents IBM's current intent, is subject to change or withdrawal and represents only goals and objectives.

Table 1. Part numbers, prices, availability

Item	Part Number/ Machine Type	Feature/ Model	Price	Availability
Nways LAN Switches				
8276 Nways Ethernet RoutePort Model 360	86H0300/8276	360	$3600	7/97
8276 Nways Ethernet RoutePort Model 361	86H0301/8276	361	$4050	7/97
8276 Nways Ethernet RoutePort Model 362	86H0302/8276	362	$4500	7/97
8276 Nways Ethernet RoutePort Model 363	86H0303/8276	363	$5050	7/97
8276 Nways Ethernet RoutePort Model 364	86H0304/8276	364	$6500	7/97
8276 Nways Ethernet RoutePort Model 365	86H0305/8276	365	$5500	7/97
Nways RouteSwitch/RoutePort User's Guide	85H0291/8276	8004	$100	7/97

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Table 1 (Continued)

Item	Part Number/ Machine Type	Feature/ Model	Price	Availability
8273 Model 10U 10BASE-T Adapter Board	8273	7114	$250	Available
8273 DS3-1 Submodule	8273	7124	$4000	Available
8273 E3-1 Submodule	8273	8721	$4000	Available
8273 100BASE-T Submodule	8273	7123	$2950	Available
8273 100BASE-FX SMF Submodule	8273	7122	$2950	Available
8273 100BASE-FX MMF Submodule	8273	7121	$950	Available
8273 100BASE-TX Submodule	8273	7120	$500	Available
8273 Model 10E 2-port Frame Relay Module	8273	0596	$1750	7/97
8273 Model 10E 4-port Frame Relay Module	8273	0597	$3000	7/97
8274 Model W53	8274	W53	$5250	6/97
8274 Model W93	8274	W93	$7950	6/97
8274 Models 500, 513, 548, 900 and 913 Management Processor Module (MPM-1G)	8274	0586	$3500	6/97
8274 Models W53 and W93 Management Processor Module (MPM-1G)	8274	0587	$3500	6/97
8274 Hardware Routing Engine (HRE)	8274	0588	$12 500	7/97
8274 FDDI Switching Module (1-port, SMF, 1024 CAM)	8274	0583	$11 950	7/97

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Table 1 (Continued)

Item	Part Number/ Machine Type	Feature/ Model	Price	Availability
8274 FDDI Switching Module (1-port, SMF, 2048 CAM)	8274	0582	$12 300	7/97
8274 FDDI Switching Module (2-port, SMF, 1024 CAM)	8274	0585	$18 950	7/97
8274 FDDI Switching Module (2-port, SMF, 2048 CAM)	8274	0584	$19 300	7/97
8274 FDDI Switching Module (1-port, DAS, MMF, 1024 CAM)	8274	7055	$7950	Available
8274 FDDI Switching Module (1-port, DAS, MMF, 2048 CAM)	8274	6893	$8300	Available
8274 FDDI Switching Module (2-port, DAS, MMF, 1024 CAM)	8274	7056	$10 950	Available
8274 FDDI Switching Module (2-port, DAS, MMF, 2048 CAM)	8274	6894	$11 300	Available
8274 CDDI Switching Module (4-port, UTP, 1024 CAM)	8274	7057	$7950	Available
8274 CDDI Switching Module (4-port, UTP, 2048 CAM)	8274	7075	$8300	Available
8274 CDDI Switching Module (8-port, UTP, 1024 CAM)	8274	7058	$10 950	Available

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Table 1 (Continued)

Item	Part Number/ Machine Type	Feature/ Model	Price	Availability
8274 CDDI Switching Module (8-port, UTP 2048 CAM)	8274	7026	$11 300	Available
8274 FDDI Switching Module (1-port MMF, 4-port CDDI, 1024 CAM)	8274	7028	$10 950	Available
8274 FDDI Switching Module (1-port MMF, 4-port CDDI, 2048 CAM)	8274	6895	$11 300	Available
8274 FDDI Switching Module (1-port DAS, SMF, 1024 CAM)	8274	7060	$10 950	Available
8274 FDDI Switching Module (1-port DAS, SMF, 2048 CAM)	8274	6896	$11 300	Available
8274 FDDI Switching Module (2-port DAS, SMF, 1024 CAM)	8274	7061	$16 950	Available
8274 FDDI Switching Module (2-port DAS, SMF, 2048 CAM)	8274	6897	$17 300	Available
8274 Token-Ring Switching Module (6-port, fiber ST, 1024 CAM)	8274	7089	$10 950	Available
8274 Token-Ring Switching Module (6-port, fiber ST, 2048 CAM)	8274	6875	$11 300	Available
8274 Token-Ring Switching Module (6-port, UTP/STP, 1024 CAM)	8274	7088	$8850	Available

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Table 1 (Continued)

Item	Part Number/ Machine Type	Feature/ Model	Price	Availability
8274 Token-Ring Switching Module (6-port, UTP/STP, 2048 CAM)	8274	6876	$9200	Available
8274 Ethernet 10BASE-T Switching Module (12-port, RJ-45, 1024 CAM)	8274	7108	$5450	Available
8274 Ethernet 10BASE-T Switching Module (12-port, RJ-45, 2048 CAM)	8274	6863	$5800	Available
8274 Ethernet 10BASE-T Switching Module (12-port, Telco, 1024 CAM)	8274	7107	$3950	Available
8274 Ethernet 10BASE-T Switching Module (12-port, Telco, 2048 CAM)	8274	6864	$4300	Available
8274 Ethernet 10BASE-FL Switching Module (8-port, ST, 1024 CAM)	8274	7106	$6950	Available
8274 Ethernet 10BASE-FL Switching Module (8-port, ST, 2048 CAM)	8274	6866	$7300	Available
8274 Ethernet Universal Switching Module (1024 CAM)	8274	7105	$3950	Available
8274 Ethernet Universal Switching Module (2048 CAM)	8274	6865	$4300	Available

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Table 1 (Continued)

Item	Part Number/ Machine Type	Feature/ Model	Price	Availability
8274 Ethernet 10BASE-T Adapter Board (2-port, AUI)	8274	7104	$450	Available
8274 Ethernet 10BASE-FL Adapter Board (MMF)	8274	7103	$450	Available
8274 Ethernet 10BASE-FL Adapter Board (SMF)	8274	7102	$1450	Available
8274 Ethernet 10BASE-T Adapter Board (RJ-45)	8274	7101	$250	Available
8274 Ethernet 10BASE2 Adapter Board (BNC)	8274	7100	$250	Available
8274 Ethernet AUI Full-Duplex Adapter Board	8274	7099	$450	Available
8274 Fast Ethernet Switching Module (1-port, FDX, RJ-45, 1024 CAM)	8274	7096	$3950	Available
8274 Fast Ethernet Switching Module (1-port, FDX, RJ-45, 2048 CAM)	8274	6869	$4300	Available
8274 Fast Ethernet Switching Module (2-port, FDX, RJ-45, 1024 CAM)	8274	7095	$4450	Available
8274 Fast Ethernet Switching Module (2-port, FDX, RJ-45, 2048 CAM)	8274	6870	$4800	Available

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Table 1 (Continued)

Item	Part Number/ Machine Type	Feature/ Model	Price	Availability
8274 Fast Ethernet Switching Module (1-port, FDX, MMF, 1024 CAM)	8274	7094	$4400	Available
8274 Fast Ethernet Switching Module (1-port, FDX, MMF, 2048 CAM)	8274	6871	$4750	Available
8274 Fast Ethernet Switching Module (2-port, FDX, MMF, 1024 CAM)	8274	7093	$5350	Available
8274 Fast Ethernet Switching Module (2-port, FDX, MMF, 2048 CAM)	8274	6872	$5700	Available
8274 Fast Ethernet Switching Module (1-port, FDX, SMF, 1024 CAM)	8274	7092	$6400	Available
8274 Fast Ethernet Switching Module (1-port, FDX, SMF, 2048 CAM)	8274	6873	$6750	Available
8274 Fast Ethernet Switching Module (100BASE-TX, 4-port, RJ-45, 1024 CAM)	8274	7098	$5200	Available
8274 Fast Ethernet Switching Module (100BASE-TX, 4-port, RJ-45, 2048 CAM)	8274	6867	$5550	Available

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Table 1 (Continued)

Item	Part Number/ Machine Type	Feature/ Model	Price	Availability
8274 Fast Ethernet Switching Module (100BASE-TX, 8-port, RJ-45, 1024 CAM)	8274	7025	$6950	Available
8274 Fast Ethernet Switching Module (100BASE-TX, 8-port, RJ-45, 2048 CAM)	8274	6868	$7300	Available
8274 Fast Ethernet Switching Module (100BASE-FX, 2-port, SMF, 1024 CAM)	8274	7091	$9350	Available
8274 Fast Ethernet Switching Module (100BASE-FX, 2-port, SMF, 2048 CAM)	8274	7074	$9700	Available
8274 Fast Ethernet Switching Module (100BASE-TX, 5-port, 1024 CAM)	8274	8722	$5700	Available
8274 Fast Ethernet Switching Module (100BASE-TX, 5-port, 2048 CAM)	8274	8723	$6050	Available
8274 Fast Ethernet Switching Module (4-port 100BASE-TX, 1-port MMF, 1024 CAM)	8274	8724	$6150	Available

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Table 1 (Continued)

Item	Part Number/ Machine Type	Feature/ Model	Price	Availability
8274 Fast Ethernet Switching Module (4-port 100BASE-TX, 1-port MMF, 2048 CAM)	8274	8725	$6500	Available
8274 Fast Ethernet Switching Module (4-port 100BASE-TX, 1-port SMF, 1024 CAM)	8274	8726	$8150	Available
8274 Fast Ethernet Switching Module (4-port 100BASE-TX, 1-port SMF, 2048 CAM)	8274	8727	$8500	Available
8274 ATM OC-3c Switching Module (2-port, RJ-45, 2-MB SRAM, 1024 CAM)	8274	7076	$13 800	Available
8274 ATM OC-3c Switching Module (2-port, RJ-45, 2-MB SRAM, 2048 CAM)	8274	6888	$14 150	Available
8274 ATM 155 OC-3c Switching Module (1-port, MMF, 500-KB SRAM, 1024 CAM)	8274	7087	$7950	Available
8274 ATM 155 OC-3c Switching Module (1-port, MMF, 500-KB SRAM, 2048 CAM)	8274	6877	$8300	Available

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Table 1 (Continued)

Item	Part Number/ Machine Type	Feature/ Model	Price	Availability
8274 ATM 155 OC-3c Switching Module (1-port, MMF, 2-MB SRAM, 1024 CAM)	8274	7086	$9400	Available
8274 ATM 155 OC-3c Switching Module (1-port, MMF, 2-MB SRAM, 2048 CAM)	8274	6878	$9750	Available
8274 ATM 155 OC-3c Switching Module (2-port, MMF, 500-KB SRAM, 1024 CAM)	8274	7027	$10 950	Available
8274 ATM 155 OC-3c Switching Module (2-port, MMF, 500-KB SRAM, 2048 CAM)	8274	6879	$11 300	Available
8274 ATM 155 OC-3c Switching Module (2-port, MMF, 2-MB SRAM, 1024 CAM)	8274	7084	$13 850	Available
8274 ATM 155 OC-3c Switching Module (2-port, MMF, 2-MB SRAM, 2048 CAM)	8274	6880	$14 200	Available
8274 ATM 155 OC-3c Switching Module (1-port, SMF, 500-KB SRAM, 1024 CAM)	8274	7083	$10 950	Available

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Table 1 (Continued)

Item	Part Number/ Machine Type	Feature/ Model	Price	Availability
8274 ATM 155 OC-3c Switching Module (1-port, SMF, 500-KB SRAM, 2048 CAM)	8274	6881	$11 300	Available
8274 ATM 155 OC-3c Switching Module (1-port, SMF, 2-MB SRAM, 1024 CAM)	8274	7082	$12 400	Available
8274 ATM 155 OC-3c Switching Module (1-port, SMF, 2-MB SRAM, 2048 CAM)	8274	6882	$12 750	Available
8274 ATM 155 OC-3c Switching Module (2-port, SMF, 500-KB SRAM, 1024 CAM)	8274	7081	$16 950	Available
8274 ATM 155 OC-3c Switching Module (2-port, SMF, 500-KB SRAM, 2048 CAM)	8274	6883	$17 300	Available
8274 ATM 155 OC-3c Switching Module (2-port, SMF, 2-MB SRAM, 1024 CAM)	8274	7080	$19 850	Available
8274 ATM 155 OC-3c Switching Module (2-port, SMF, 2-MB SRAM, 2048 CAM)	8274	6884	$20 200	Available

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Table 1 (Continued)

Item	Part Number/ Machine Type	Feature/ Model	Price	Availability
8274 ATM 155 OC-3c Switching Module (1-port, UTP, 2-MB SRAM, 1024 CAM)	8274	7078	$9400	Available
8274 ATM 155 OC-3c Switching Module (1-port, UTP, 2-MB SRAM, 2048 CAM)	8274	6886	$9750	Available
8274 ATM 155 OC-3c Switching Module (2-port, UTP, 2-MB SRAM, 1024 CAM)	8274	7076	$13 800	Available
8274 ATM 155 OC-3c Switching Module (2-port, UTP, 2-MB SRAM, 2048 CAM)	8274	6888	$14 150	Available
8274 ATM DS-3 Switching Module (1-port, coax, 500-KB SRAM, 1024 CAM)	8274	7051	$8950	Available
8274 ATM DS-3 Switching Module (1-port, coax, 500-KB SRAM, 2048 CAM)	8274	6889	$9300	Available
8274 ATM DS-3 Switching Module (2-port, coax, 500-KB SRAM, 1024 CAM)	8274	7052	$12 950	Available

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Table 1 (Continued)

Item	Part Number/ Machine Type	Feature/ Model	Price	Availability
8274 ATM DS-3 Switching Module (2-port, coax, 500-KB SRAM, 2048 CAM)	8274	6890	$13 300	Available
8274 ATM E3 Switching Module (1-port, coax, 500-KB SRAM, 1024 CAM)	8274	7053	$8950	Available
8274 ATM E3 Switching Module (1-port, coax, 500-KB SRAM, 2048 CAM)	8274	6891	$9300	Available
8274 ATM E3 Switching Module (2-port, RG-59, 500-KB SRAM, 1024 CAM)	8274	7054	$12 950	Available
8274 ATM E3 Switching Module (2-port, RG-59, 500-KB SRAM, 2048 CAM)	8274	6892	$13 300	Available
8274 4-port WAN Switching Module	8274	8728	$7000	Available
8274 8-port WAN Switching Module	8274	8729	$9500	Available
8274 6-ft Cable (V.35, DTE)	8274	8730	$195	Available
8274 6-ft Cable (V.35, DDC)	8274	8731	$195	Available
8274 6-ft Cable (RS-232/DB25, DTE)	8274	8732	$195	Available
8274 6-ft Cable (RS-232/DB25, DDC)	8274	8733	$195	Available
8274 6-ft Cable (RS-530/DB25, DTE)	8274	8734	$195	Available

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Table 1 (Continued)

Item	Part Number/ Machine Type	Feature/ Model	Price	Availability
8274 6-ft Cable (RS-530/DB25, DDC)	8274	8735	$195	Available
8274 6-ft Cable (X.21/DB15, DTE)	8274	8736	$195	Available
8274 6-ft Cable (X.21/DB15, DDC)	8274	8737	$195	Available
8274 6-ft Cable (RS-449/DB37, DTE)	8274	8738	$195	Available
8274 6-ft Cable (RS-449/DB37, DDC)	8274	8739	$195	Available
8274 Model W53 250-Watt Redundant Power Supply	8274	7141	$3250	Available
8274 Model W93 500-Watt Redundant Power Supply	8274	7139	$4500	Available
8274 5-slot Wall-Mount Bracket	8274	7137	$95	Available
8274 9-slot Wall-Mount Bracket	8274	7136	$95	Available
8274 1.5-inch Wide Filler Blank Panel	8274	0590	$75	6/97
8274 1.0-inch Wide Filler Blank Panel	8274	7135	$65	6/97
8274 0.5-inch Narrow to Wide Filler Blank Panel	8274	0592	$50	6/97
8274 5-slot Cable Organizer	8274	7134	$95	Available
8274 9-slot Cable Organizer	8274	7133	$195	Available
FDDI SAS TP UFC for 8270	85H8480/8270	8480	$4495	9/97

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Table 1 (Continued)

Item	Part Number/ Machine Type	Feature/ Model	Price	Availability
FDDI SAS TP UFC for 8271	85H8480/8271	8480	$4495	9/97
FDDI SAS TP UFC for 8272	85H8480/8272	8480	$4495	9/97
FDDI SAS MMF UFC for 8270	85H8475/8270	8475	$4995	9/97
FDDI SAS MMF UFC for 8271	85H8475/8271	8475	$4995	9/97
FDDI SAS MMF UFC for 8272	85H8475/8272	8475	$4995	9/97
FDDI DAS MMF UFC for 8270	85H8470/8270	8470	$5995	9/97
FDDI DAS MMF UFC for 8271	85H8470/8271	8470	$5995	9/97
FDDI DAS MMF UFC for 8272	85H8470/8272	8470	$5995	9/97
Token-Ring RMON UFC for 8270	85H5060/8270	5060	$4295	9/97
Token-Ring RMON UFC 8272	85H5060/8272	5060	$4295	9/97

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This fact sheet is for an IBM Networking Product announced on 11 March 1997.

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