IBM 8230 Controlled Access Unit Models 04A, 04P, 213 Fact Sheet

Enrichments to the Model 8230 family of token-ring concentrators

20 June 1995

Announcement Summary

Today IBM announces three enrichments to its IBM 8230 Controlled Access Unit family of token-ring concentrators. First, two new, fixed-function models are offered for the lower priced, entry-level branch office market. These models have either 16 active RJ-45 device ports (Model 04A) or 16 passive RJ-45 device ports (Model 04P). Second, Model 213 is offered to protect your investment in active Lobe Attachment Modules (LAMs). In addition, Model 213 supports multiple management platforms, a variety of media connections, and configurability of up to 92 ports (depending on Lobe Insertion Unit choices). These new models enrich IBM's token-ring concentration product offerings between the limited-function, low-price, single-media, unmanaged offerings like the 8228 and 8226, and the higher function, fully managed, multiple-media models like the 8230 Models 003, 013, and 213.

Announcement Highlights

These enhancements demonstrate IBM's ongoing commitment to its family of token-ring concentrators:

Models 04A, 04P:

- Ideal product for a small branch-office location
- 16 active or passive, shielded RJ-45 ports
- Desktop or rack-mount installation
- Management with either CMOL (Common Management Information Protocol over Logical Link Control) or SNMP (Simple Network Management Protocol).
- Token-ring RMON support available September, 1995
- EIA 232 port for out-of-band management
- Optional ring-in/ring-out feature available December, 1995

Model 213:

- New model for active token-ring requirements
- Same basic function and features as Model 013, **plus** a larger power supply for active UTP LAMs

- Support for up to three unshielded twisted-pair (UTP) LAMs in addition to front-loading Lobe Insertion Units (LIUs)
- SNMP management support now; CMOL support by September, 1995

Additional Technical Details

Models 04A and 04P

Model 04A is an active model, in which the token-ring signal is retimed and amplified. Model 04P is for a passive configuration, in which retiming is not a requirement. Both models have 16 shielded, RJ-45 ports for device attachment, an EIA 232 port for out-of-band management, and a slot for the optional ring-in/ring-out feature (which is announced today for customer planning, and will be available December, 1995). The copper ring-in/ring-out feature has shielded RJ-45 connectors; the optical fiber feature has ST connectors for multimode fiber. Models 04A and 04P can be installed as a desktop concentrator or can be rack mounted. Network management, described in more detail below, is available for either a CMOL application such as LAN Network Manager for OS/2 (Version 2.0 or later) or an SNMP application such as LAN Network Manager for AIX. In addition, four token-ring Remote Monitoring (RMON) groups will be supported by September, 1995.

Model 213

Model 213 is designed for customers who use unshielded cabling and require at least 100 meters distance between the concentrator and the attaching devices. In addition to the function and features of Model 013, Model 213 has a larger power supply, which is necessary to retime and redrive the signal. This model protects customer investment in UTP LAMs. Existing or new UTP LAMs can now be connected to Model 213, instead of the older Model 002. Model 213 supports multiple management platforms, a variety of media connections, and configurability of up to 92 ports, depending on LIU choices.

Network Management

The newest models of the 8230 Controlled Access Units (Models 003, 013, 4A, 04P, and 213) support a choice of remote management through either CMOL or SNMP.

CMOL

Management of Models 003, 013, 213, 04A, and 04P in CMOL mode is supported by Version 2 of IBM LAN Network Manager for OS/2. Local support (on the LNM for OS/2 workstation) will be offered in a PTF to LNM V2 by June of 1995 (see announcement letter 294-549). Models 04A, 04P, and 003 are CMOL enabled and can be managed by LNM V2.0 and the PTF. Models 013 and 213 will be CMOL enabled and manageable by LNM V2.0 via a microcode update by September, 1995.

In addition to the full range of functions offered by LNM V2.0, limited, local management information for the Models 04A and 04P is available via a program called Concentrator/Configuration Management Facility (CCMF), which ships with each 04A and 04P. Some of the activities which can be performed utilizing the EIA 232 port and ProComm are: enable/disable modules, modify lobe parameters, set removal thresholds, and set/reset locally administered addresses. Additionally, Model 04A and 04P microcode may be loaded using either the EIA 232 port or an OS/2 server.

NetView S/390 management of the 8230 models through an SNA session connection to LNM V2 will be enabled in a later PTF to LAN Network Manager.

NetView MultiSystem Manager will provide support of Models 003, 013, 213, 04A, and 04P no later than 1Q96.

SNMP

SNMP management of the Models 003, 013, 213, 04A, and 04P is provided by IBM LAN Network Manager for AIX running on the NetView for AIX platform. Support for the Models 003, 013, and 213 is already available. Support for the Models 04A and 04P will require PTF U437143, available June, 1995.

NetView for Windows currently supports the Models 003 and 013 using the product specific code supplied as part of the 8230 ship group. Now, the NetView for Windows platform code and the 8230 product specific code for Models 003, 013, 213, 04A, and 04P are available in a single package. (Please see the announcement of IBM Nways Manager for Windows for specifics.)

The Models 04A and 04P support the following Remote Network Monitoring Management Information Base (RMON) groups as described in RFC1271 - Remote Network Monitoring Management Information Base and RFC1513 - Token-Ring Extensions to the Remote Network Monitoring MIB:

- The Token-Ring MAC-Layer Statistics Group collects information, including error reports, from MAC layer frames on the local ring.
- The Token-Ring Ring Station Group contains statistics and status information associated with each token-ring station on the local ring.
- The Token-Ring Ring Station Order Group provides the order of the stations on the ring.
- The Token-Ring Ring Station Config Group manages token-ring stations through active means. Stations on the ring can be removed or have configuration information downloaded from them.

Any RMON-compliant manager may be used to provide management of this agent within the 8230.

This RMON capability will be available by September, 1995.

Benefits

Models 04A and 04P:

- Provide a value-priced offering for the remote branch office
- Support an optional ring-in/ring-out feature for growth potential from a single LAN segment to a larger, multiple LAN configuration
- Protect customer investment in hardware, should migration from a CMOL management platform to SNMP become necessary

Model 213:

- Provides the same function and capability of the existing model 13, plus the ability to attach active UTP LAMs
- Protects customer investment in UTP LAMs and cabling as well as using the same LIUs as Model 003 and 013
- Provides a migration path for Model 2 users who require the improved network management capability of the Model 213.

Positioning

- A low-cost, highly reliable solution from a major computer and LAN vendor.
- Models 04A and 04P serve multiple markets for low-end token-ring concentration. They are ideally suited for remote branch offices, for example, in the banking, insurance, real estate and transportation industries. Models 04A and 04P can also participate in LANs, connected to other models of the 8230, or to the 8250 and 8260.
- The 8230 family provides a migration path for users with low-end token-ring product requirements who might later require participation in larger LANs. (See the list below for a delineation of IBM's token-ring concentration products.)

8226, 8228 Unmanaged, low-end, no beacon recovery

8230 04A, 04P Managed, low-end, fixed-function, beacon recovery

8230 213 Managed, medium-low-end, mixed media, beacon recovery, single ring segment

8250, 8260 Managed, high-end, multiple LAN types

Items, Part Numbers, Features/Models, Prices, Availability

Description	Type	Model/Feature	Part Number	Price
Model 001	8230	001	53F5500	$2,150
Model 002	8230	002	33G4388	$2,500
Model 003	8230	003	59G7719	$2,630
Model 013	8230	013	59G7727	$3,340
Model 213	8230	213	25H6259	$3,500
Model 4 with 16 Active Ports	8230	04A	25H5412	$2,995
Model 4 with 16 Passive Ports	8230	04P	25H5440	$2,695
Model 4 RJ-45 Ring-In/Ring-Out Module	8230	5450	25H5450	$295
Model 4 Optical-Fiber Ring-In/Ring-Out Module	8230	5458	25H5458	$735

© IBM Corporation 1995. All rights reserved. AIX, IBM, NetView, and OS/2 are trademarks of International Business Machines Corporation in the United States or other countries or both.

This fact sheet is for an IBM Networking Product announced on 20 June, 1995.

The part numbers, prices, and availability dates shown here are valid in the U.S. They will vary from country to country. Some products might not be announced in your country. Refer to product announcements for your country or contact your local IBM representative or IBM Business Partner.