IBM 8282 Nways ATM Concentrator

Connectivity now and in the future

Highlights

The IBM 8282 Nways ATM Concentrator brings ATM to the desktop. Using an ATM network that includes the 8282, you can provide up to 25 Mbps of dedicated throughput to each workstation and continue to use your current LAN applications over ATM. You can also access other workstations that are in the ATM network. ATM is ideal for applications that require high network throughput, such as video, audio, or graphics, or the transfer of very large databases.

The 8282 in your ATM network

The concentrator is attached to up to twelve 25-Mbps ATM adapters installed in the downstream workstations and to a 100-Mbps ATM switch upstream. The 8282 multiplexes cells from the desktop 25-Mbps ATM adapters to the ATM switch and routes cells from the ATM switch back to the desktop adapters. The 8282 will support either LAN Emulation or Classical IP adapters.

If the ATM switch has multiple ports, you can connect more than one 8282 to it to create a larger network. In addition, another IBM product, the 8281 Nways ATM LAN Bridge, can be used to link your desktop ATM network to Token-Ring or Ethernet LANs. In this way, the ATM workstations attached to the 8282 can also communicate with workstations on a LAN.

Safe migration of your LAN software

The workstations connected to the 8282 use LAN Emulation software to communicate with one another. This feature of the 8282 means that applications that were designed for LANs will keep running on your ATM network.

Protection of your cable investment

Standard UTP or STP cabling and RJ-45 connectors are used to connect the 25-Mbps ATM adapters to the 8282. You can upgrade the speed of your network to 25 Mbps without having to invest in fiber media. You will need fiber media only to connect the ATM switch to the SC connector on the 8282.

Easy installation

No manual setup or initialization is required. The 8282 has automatic hardware diagnostics and provides status indicators to help you verify that the concentrator is operating correctly. You can install the 8282 either in a rack or on a flat surface, such as a table top.

Convenient configuration

The Configuration and Management Utility is shipped with the 8282 and runs under Windows. It is installed in a workstation that is directly connected to the 8282 service port. You can use it to configure the 8282, to create and save configuration files, and to upload new operating software. Saved configuration files can be uploaded to the 8282 to reconfigure it.

Network management using SNMP

The 8282 provides an SNMP interface to network management applications, such as IBM SystemView NetView for AIX. IBM also offers an online management application that is based on SNMP and is designed specifically for the 8282. This application is contained within three IBM network management products: Nways Campus Manager ATM, Nways Campus Manager Suite, and Nways Manager for Windows.

For more information

To learn more about the 8282 Nways ATM Concentrator and other ATM products offered by IBM, contact your local IBM marketing representative or your local IBM authorized remarketer. Your marketing representative can also tell you about IBM's services for planning, designing, and operating ATM networks.

IBM 8282 Nways ATM Concentrator at a Glance

Product number

- IBM 8282 Nways ATM Concentrator: 10H4719
- Four-port 25-Mbps ATM Module (feature): 10H4425

Ports

- Eight RJ-45 ports in base; four additional ports in the 25-Mbps ATM Module

ATM support

- ATM Forum UNI Specification V3.0; frames are transferred across ATM using AAL-5. Also supports ILMI registration and Q.2931 call setup.

Connections

- ATM: 100-Mbps multimode fiber interface (as defined in ATM Forum UNI Specification V3.0); duplex SC connection; front-panel status LEDs. Also 8 or 12 RJ-45 ports for UTP or STP connection to 25-Mbps ATM adapters.
- EIA 232: One EIA 232 serial port is provided with a DB-25 connector on the front panel. You can access the Configuration and Management Utility from a workstation attached to this port.

Physical specifications

- Width: 483 mm (19 in.)
- Depth: 508 mm (20 in.)
- Height: 133 mm (5.25 in.)
- Weight: 11.4 kg (25 lb)

Operating environment

- Temperature: 10 to 40 C (50 to 100 F)
- Relative humidity: 8 to 80%
- Maximum wet-bulb temperature: 27 C; 80.6 F

- Power requirement: 100 to 250 V ac
- Noise level: 43 dB

Warranty period

- One year

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