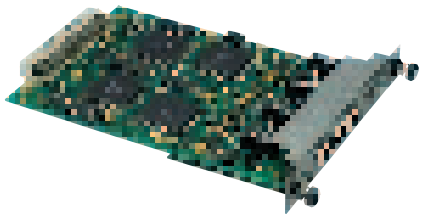
Expanding your Token-Ring switching options

IBM 8270 and 8272 Universal Feature Cards

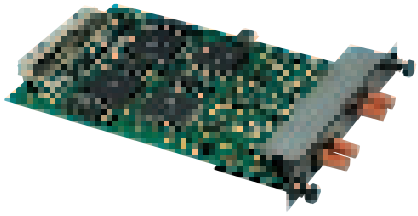
Highlights

Long-term usefulness and flexibility with the Universal Feature Card (UFC) slot and optional, field-installable UFCs

High-speed ATM uplink connections, connections to other shared media and connections to dedicated LAN segments



4-Port Token-RingUTP/STP



2-Port Token-Ring fiber

ATM 155-Mbps Multimode Fiber/Token-Ring UFC

As new applications require more and more bandwidth in the backbone, the one-port, 155-Mbps ATM UFC, with its fully ATM Forum-compliant SONET interface, can switch data to an industry-standard ATM backbone switch such as the IBM 8260, over multimode optical fiber cables of up to 2 km (6600 feet) to get to another switch or file server (Figure 1). The 8271 ATM UFC will support ATM Forum-compliant LAN Emulation that will let you run all of your applications without any change to your software.

The ATM 155-Mbps Multimode Fiber/Token-Ring UFC, supported in the Token-Ring IBM 8270 Model 800, the IBM 8272 and the 8272 LAN Switch Module for the IBM 8260, switches Token-Ring frames between the LAN segments connected to the LAN switch and an ATM network. The UFC provides an industry-standard LAN Emulation proxy client (LEC) that is fully-compliant with ATM Forum specifications. It also allows LAN traffic to be switched between LAN stations or segments attached to a LAN switch and other devices with compatible ATM LAN Emulation applications.

The ATM UFC provides one ATM interface that complies with UNI 3.0 and 3.1 ATM Forum specifications. It is designed with an SC connector for attachment over multimode fiber media. The two pairs of LEDs on the faceplate of the UFC indicate the operational status of the UFC and of the ATM port.

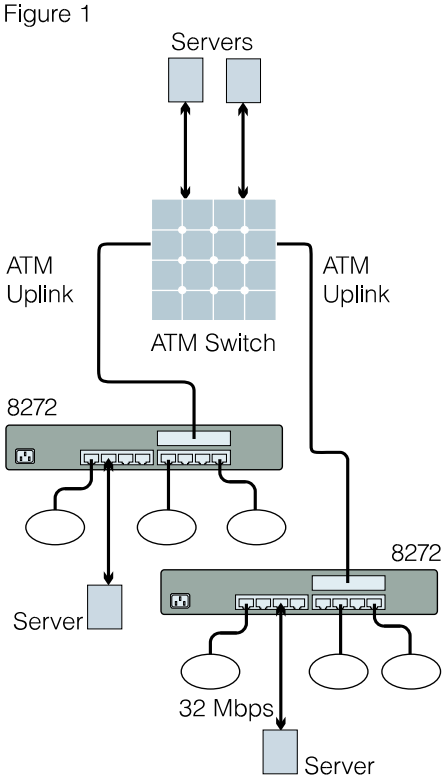
4-Port Token-Ring UTP/STP and 2-Port Token-Ring Fiber UFCs

These UFCs provide additional Token-Ring ports, increasing the maximum number of ports per switch. These ports can be configured in many ways similarly to the fixed Token-Ring ports. Each or all of these UFC ports can be configured (in combination with any of the fixed ports, or not) to be used in multilink TokenPipe connections and to be included in virtual switches. These UFC ports will support address filters and will support BootP and TFTP, Telnet or SNMP sessions.



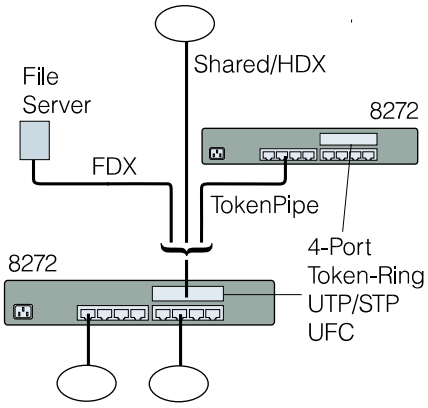
ATM 155-Mbps Multimode Fiber

Figure 1



The 4-Port UFC provides 4 Token-Ring ports that support Token-Ring, twisted-pair (UTP/STP) media via RJ-45 connectors. You can configure any of these ports to provide either shared (half-duplex), 4- or 16-Mbps Token-Ring connections or dedicated (full-duplex), 32-Mbps connections (Figure 2). In addition to the RJ-45 connectors for the Token-Ring ports, there are 14 LEDs (one set of 3 for each port plus 2 for the UFC overall) on the faceplate of this UFC that indicate the operational status of the UFC and the ports.

Figure 2

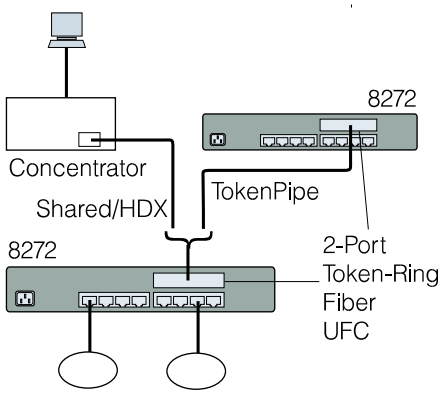


The 2-Port Token-Ring Fiber UFC provides 2 Token-Ring, multimode fiber connections via ST connectors. Similar in capability to the 8272's Token-Ring UTP/STP ports, each port on this UFC is a switch port that can be connected to one of the following LAN components (Figure 3):

- A shared Token-Ring segment via a fiber RI/RO port on a Token-Ring concentrator or hub that forms the segment, for example the IBM 8230 Token-Ring Network Controlled Access Unit, the IBM 8238 Token-Ring Stackable Hub or the 8250 or 8260 Nways™ Multiprotocol Switching Hub.

Token-Ring segments with 8272s connected in this manner will utilize both the backup ring path as well as the main ring path. Consequently, the redundant path is in use and not available for ring recovery.

Figure 3



- A Token-Ring fiber port on another 8272. This is a TokenPipe connection that can be combined with other Token-Ring connections (UTP/STP or fiber) to another 8272 to form a multilink TokenPipe. When used as TokenPipe connections, these fiber ports can be configured to be full-duplex Token Ring.

In addition to the ST connectors for the Token-Ring fiber ports, there are nine LEDs (one set of three for each port plus three for the UFC overall) on the faceplate of this UFC that indicate the operational status of the UFC and the ports.

4-Port Token-Ring Enhanced UTP/STP and 2-Port Token-Ring Enhanced Fiber UFCs for the 8270 Model 800

These two UFCs, designed specifically for the 8270 Model 800 for Token Ring, provide the same functions and features as the 4-Port Token-Ring UTP/STP UFC and the 2-Port Token-Ring Fiber UFC provide for the 8272.

For more information

To find out more about the IBM 8270 and 8272 UFCs and other high-performance IBM communications and networking products, contact your IBM representative or call IBM Direct at 1 800 IBM-CALL (1 800 426-2255). You can also the IBM Networking Home Page at http://www.raleigh.ibm.com.

Copies of this, and other related product specification sheets can be obtained from the IBM FAX Information Service by dialing 1 800 IBM-4-FAX (1 800 426-4329) in the U.S. or Canada or by dialing (415) 855-4329 outside the U.S. and Canada and requesting any of the following document numbers:

4798	8270 and 8272 Universal Feature Cards
3470	8272 Nways Token-Ring LAN Switch
6195	8270 Model 800 LAN Switch

8272 UFCs at a Glance		
ATM multimode fiber/Token-Ring	Part Number	85H5076
	Ports	One ATM 155-Mbps fiber port
	Cabling	Multimode fiber via an SC connector
4-Port Token-Ring UTP/STP (IBM 8272 only)	Part Number	13H9196
	Ports	Four Token Ring (HDX/FDX)
	Cabling	Same as base 8272 ports
2-Port Token-Ring fiber (IBM 8272 only)	Part Number	41H6985
	Ports	Two Token Ring (HDX/FDX)
	Cabling	Multimode fiber via ST connectors
4-Port Token-Ring Enhanced UTP/STP (IBM 8270-800 only)	Part Number	85H5092
	Ports	Four Token Ring (HDX/FDX)
	Cabling	Same as base 8272 ports
2-Port Token-Ring Enhanced fiber (IBM 8270-800 only)	Part Number	85H5087
	Ports	Two Token Ring (HDX/FDX)
	Cabling	Multimode fiber via ST connectors
Dimensions	Width: 170 mm (6.7 in.) Depth: 214 mm (8.4 in.) Height: 25 mm (1 in.)	
8270 and 8272 standards compliance with UFCs	8270 and 8272 Safety Standards: EN 60950, UL 1950, CSA950 8272 Electromagnetic Compliance Standards: FCC Class A (USA), VCCI Class 1 (Japan), ICES-003 Class A (Canada), European Community Mark of Conformity (CE Mark), EN55022 Class B (CISPR-22B) or Class A (CISPR-22A) when configured with UFCs using unshielded cables	
Warranty	One year	
Publications	GA27-4156	ATM Multimode Fiber Universal Feature Card Planning and Installation Guide
	GA27-4121	4-Port Token-Ring UTP/STP Universal Feature Card Planning and Installation Guide
	GA27-4122	2-Port Token-Ring Fiber Universal Feature Card Planning and Installation Guide
	GA27-4168	4-Port Token-Ring Enhanced UTP/STP and 2-Port Token-Ring Enhanced Fiber Universal Feature Cards Planning and Installation Guide



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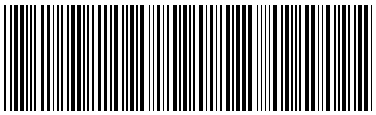
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