

# 8271 NWAYS ETHERNET LAN SWITCH ATM OC-3C MODULE QUICK REFERENCE GUIDE

## **Pre-Configuration Checklist**

Before configuring the ATM OC-3c Module, complete the following steps:

- 1 Install the ATM Module Installation instructions are provided in "Installing and Setting Up the Module" in the ATM Module User's Guide.
- 2 Check that the ATM Module is correctly installed in the Switch — Follow the "Post Installation Checks" as described in "Installing and Setting Up the Module", in the ATM Module User's Guide.
- 3 Check that the Switch is correctly installed in the network See the User's Guide that came with your Switch.
- In this reference guide, the term Switch is used to identify the device containing the ATM Module. The term ATM Switch is used to identify the ATM device that the Switch is connected to on the network.
- 4 Ensure that the LANE Services are correctly set up on your network, that is, each LAN Emulation Server (LES) and its associated Broadcast and Unknown Server (BUS) are operational.

**5** To communicate with an ATM Switch, the communication settings on the ATM Module and ATM Switch must be compatible. Find the following ATM Switch settings and enter them below:

#### Signalling Mode



Signalling must be the same on both devices, and must be either 3.0 or 3.1. The default on the ATM Module is 3.1.

## SONET or SDH?

Both devices must use the same physical standard. The ATM Module supports *SONET STS-3c* and *SDH STM-1*, and the default is *SONET STS-3c*.

ILMI VCC VPI = VCI =

Both devices must use the same Interim Local Management Interface (ILMI) connection. The default is VPI = 0 and VCI = 16.

# Configuring the ATM Module

1 Access the Local Management Screens

Refer to "Accessing Management Features" in the ATM Module User's guide for instructions.

- 2 Ensure that the ATM Module and ATM Switch use compatible settings:
  - **a** From the Main Menu, select the ATM Configuration option. The ATM Module Configuration screen is displayed. An example of the screen is shown in Figure 1.

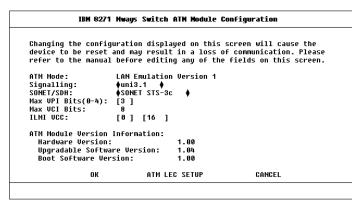


Figure 1 ATM Module Configuration Screen

- **b** Ensure that the signalling mode used by the ATM Module matches the signalling mode used on the ATM Switch, either version 3.0 or 3.1.
- c Ensure that the ATM Module and the ATM Switch are using the same physical standard, either SONET STS-3c or SDH STM-1.

- **d** Ensure that the ATM Module and ATM Switch are using the same ILMI VCC. The standard ILMI VCC is VPI = 0, VCI=16.
- e If you do not need to make any changes, select the CANCEL button. Select the OK button to apply the changes and automatically reset the device.
- 3 Ensure that the Default VLAN is operational
  - **a** From the Main Menu, select the Switch Management option. The Switch Management screen is displayed. An example of the screen is shown in Figure 2.

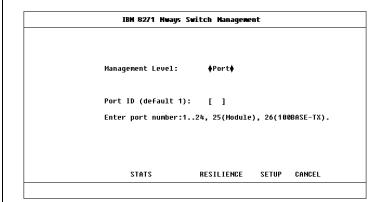


Figure 2 Switch Management Screen

**b** In the *Management Level* field ensure that the *Port* option is selected. You can use the spacebar to toggle between the options.

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- c Ensure that the Port ID is set to the ATM port number. The ATM port numbers are as follows:
  - Port 13 on an IBM 8271 Nways Ethernet LAN Switch Model 612 and IBM 8271 Nways Ethernet LAN Switch Model 712
  - Port 25 on an IBM 8271 Nways Ethernet LAN Switch Model 624 and IBM 8271 Nways Ethernet LAN Switch Model 524
- **d** Select the STATS button.
- e The ATM Port Statistics Screen is displayed.
- f Select the LEC button to displays statistics and status information for the default VLAN that is associated with the default ELAN (admin1).

An example of the ATM VLAN LEC Status screen is shown in Figure 3.

IBN 8271 Nways Switch ATN VLAN LEC Status					
Port ID:	25				
Select the VLAN to be m	onitored in	the fiel	Ld below:		
ULAN:	[1]	I			
LEC State:	Acti	Active			
LEC ELAN Name:		elan4212 Ø			
LEC ATM Address:		47000000000000000000000000000000000000			
Last LEC Failure Reason:					
LEC Operation at Failure:		•			
Frames Received: 4	83905118	Octets	Received:	905586714	
Frames Transmitted: 4	62252145	Octets	Transmitted:	3814474626	
CLEAR SCREEN C	OUNTERS		CANCEL		

Figure 3 ATM VLAN LEC Status Screen

g If the default VLAN's *LEC State* field displays a value other than *Active*, and the *Last LEC Failure Reason* shows a value other than *None*, an error has arisen; see "Troubleshooting".

### Troubleshooting

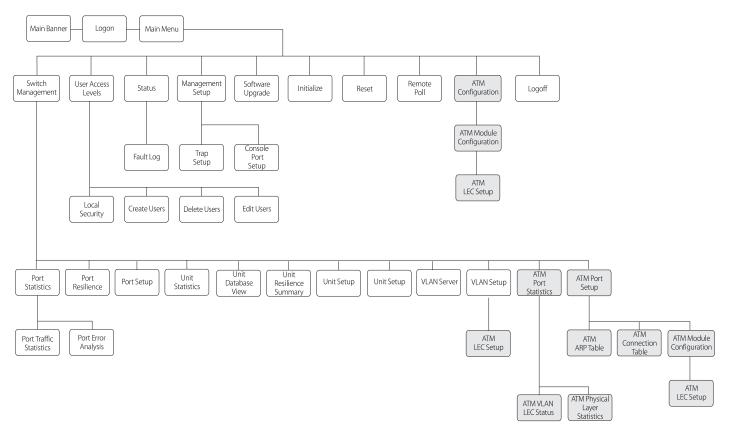
The most likely error at start-up time is a problem with the physical connection. Use Table 1 to identify any problems you encounter after installation. If you cannot resolve the problem using the table, refer to the "Troubleshooting" appendix in the ATM Module User's Guide.

Table 1 Troubleshooting				
1 Is the Link Status LED OFF?	Yes	Ensure that the port is turned on (enabled) at both ends of the link.		
	No	You may need to reverse the Transmit and Receive connectors at one end of the link.		
	NO	Go to step 2.		
2 Is the Far End Status LED OFF?	Yes	Ensure that the cable is not obstructed or damaged. Replace dam- aged cable.		
	No	Go to step 3.		
3 Has the LEC joined the LANE service? Check the Last LEC Failure Reason field on the ATM VLAN LEC Status Screen, as described in the previous section of this guide.	Yes	The Switch is operational, but there is a problem with the adjacent ATM Switch, or insufficient resources fur- ther along the network connection. Check the ATM Connection using the Connection Table, as described in " Dis- playing an ATM Connection" within the "Managing the ATM Module" chapter of the ATM Module User's Guide. Ensure that you have completed the " Pre-Configuration Checklist" at the start of this guide. Refer to the <i>Last LEC Failure Reason</i> troubleshooting table in the " ATM VLAN LEC Status" section of the " Monitoring the ATM Module" chap- ter of the ATM Module User's Guide. If you still cannot resolve the problem, refer to the " Troubleshooting" appen- dix in the User's Guide.		

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## Menu Map

The local management menu and screen structure is shown in Figure 4. ATM specific screens are shaded gray on the map.





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