IBM 8260 Multiprotocol Intelligent Switching Hub Ethernet 10-Port 10BASE-FB Module Release Note

IBM Corporation • IBM Part Number 29H4248 • August 25, 1995

This release note applies to the IBM 8260 Ethernet 10-port 10BASE-FB Module (Model Number E10PS-FB) at software Version 1.0 of the boot code and Version 1.05 of the operational code.

This release note contains the following issues:

- Optical Transmission Issue
- Ethernet Security Card Support
- Enhancements
- Documentation Corrections.

Store this release note in the Release Note section of your 8260 Reference Library.

Optical Transmission Issue

When you disable a port on the 10-Port 10BASE-FB Module, the light transmitted on the fiber optic cable is not turned off. To disable a port *and* turn off the light transmitted on the fiber optic cable, use the SHUTDOWN command.

To shut down a port on the 10-Port 10BASE-FB Module, use the following command syntax:

```
SET PORT {slot.port} MODE SHUTDOWN
```

Note: It is not possible to disable or shut down a port in a redundant setup using the DMM Terminal Interface or SNMP commands. If you use fault-tolerant transceivers, however, it is possible to shut down a primary port and force a switchover to a backup port.

Ethernet Security Card Support

To use the IBM Ethernet Security Card (E-SEC) with the 8260 Ethernet 10-Port 10BASE-FB Module, you must update the code for the 10-Port 10BASE-FB Module to Version 1.01 code or later.

Enhancements

The section describes the following enhancements at Version 1.05 of the 10-Port 10BASE-FB operational code:

- ❑ Hot Swap Performance
- ❑ Port Partition Support

Hot Swap Performance

Performing a hot swap of the10-Port 10BASE-FB Module using Version 1.05 of the operational code no longer causes the possibility of a random alignment error when the module is reinserted into the hub.

Port Partition Support

Each time a port partitions it is automatically cleared at Version 1.05 of the operational code. If, however, a port partitions four separate times within a five minute period, the port then remains partitioned and is not cleared.

To reenable a port that is partitioned, you must disable and then reenable the port or wait for the port to receive the next valid frame.

Note: This enhancement will prevent a link from being permanently disabled if both ends partition simultaneously.

Documentation Corrections

This section of the release note applies *only* to IBM 8260 Ethernet 10-Port 10BASE-FB Module documentation. The information in this section will be included in the next revision of the IBM 8260 documents listed in this section.

This section contains the following documentation corrections:

- ❑ Monitoring an Isolated Network
- ❑ DIP Switch Settings.

Monitoring an Isolated Network

The second note on page 3-14 of the *8260 Ethernet 10-Port 10BASE-FB Module User's Guide* incorrectly states that you cannot assign a MAC card to an isolated network.

It *is* possible to monitor isolated networks on the 10-Port 10BASE-FB Module with a MAC card.

DIP Switch Settings

This section applies to the following IBM 8260 10-Port 10BASE-FB Module documents:

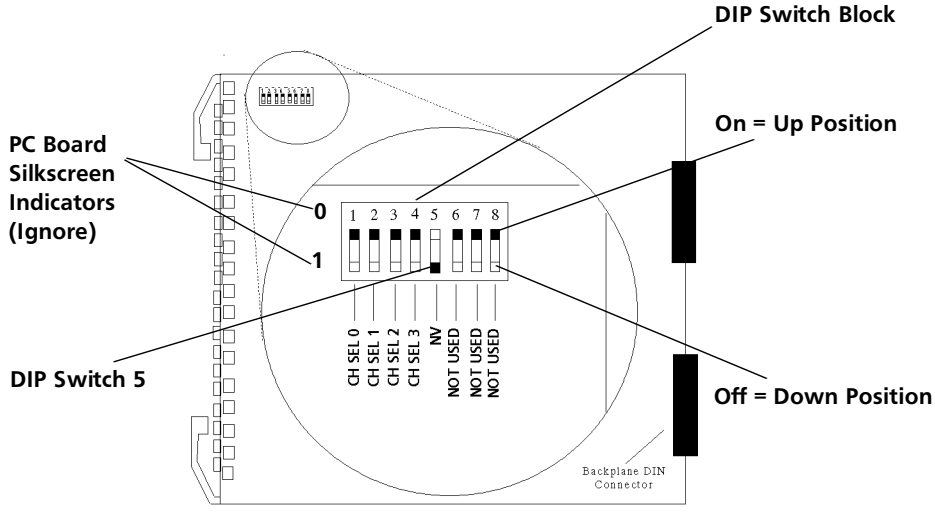
- ❑ 8260 Ethernet 10-Port 10BASE-FB Module User's Guide (Document Number SA33-0261-0)
- ❑ 8260 Ethernet 10-Port 10BASE-FB Module Reference Card (Document Number SA33-0281-0).

These documents contain incorrect DIP switch information. The corrected DIP switch information and clarification described in this release note will be included in the next reprint of these IBM 8260 documents. Use the DIP switch information in this release note to set DIP switches.

8260 Ethernet 10-Port 10BASE-FB Module User's Guide

Figure 3-1 on page 3-6 of the 8260 *Ethernet 10-Port 10BASE-FB Module User's Guide* displays an incorrect DIP switch illustration. Refer to the following figure and notes when setting DIP switches.

Figure 1. 10-Port Module and DIP Switch Location



Note: **DIP Switch 5** must be set to the positions listed below when configuring network assignments using:

– NVRAM in OFF (down) position
– DIP switch in ON (Up) position

Note: Ignore the **0** and **1** PC board silkscreen position indicators on the left side of the DIP switch block. This is a hardware issue *only*.

Table 3-2 in the 8260 *Ethernet 10-Port 10BASE-FB Module User's Guide* is incorrect. The table below contains correct DIP switch setting information. Use the following table when setting DIP switches.

Network Selection	Switch Settings[1]			
	Switch 1	Switch 2	Switch 3	Switch 4
1 (default)	OFF	ON	ON	ON
2	ON	OFF	ON	ON
3	OFF	OFF	ON	ON
4	ON	ON	OFF	ON
5	OFF	ON	OFF	ON
6	ON	OFF	OFF	ON
7	OFF	OFF	OFF	ON
8	ON	ON	ON	OFF
Isolated_1	ON	ON	ON	ON

[1]By default, Switch 5 is set to NVRAM. When enabled, settings stored in NVRAM takes precedence over DIP switch settings 1 through 4.

8260 Ethernet 10-Port 10BASE-FB Module Reference Card

The DIP switch table in the *8260 Ethernet 10-Port 10BASE-FB Module Reference Card* lists an incorrect setting for Network Selection 4, Switch 3. The correct setting for Network Selection 4, Switch 3 is **Off**. Use the following table when setting DIP switches.

Switch Settings	Network Selection								
	1	2	3	4	5	6	7	8	Isolated Network
Switch 1	OFF	ON	OFF	ON	OFF	ON	OFF	ON	ON
Switch 2	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON
Switch 3	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON
Switch 4	ON	ON	ON	ON	ON	ON	ON	OFF	ON

Notes: Module DIP Switch 5 enables users to switch between NVRAM and DIP switch-controlled configuration. Set DIP Switch 5 to OFF when using NVRAM to configure network assignments. DIP switches 6, 7, and 8 are not used.