8260 Nways(*) Multiprotocol Switching Hub

Installation Instructions

for

Ethernet Flexible Concentration (EtherFlex) Module

V1.01 Microcode Upgrade Field B/M

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Before Installation

Purpose

The purpose of this document is to provide the instructions to update the software microcode (flash EEPROM) of the 8260 Nways(*) Multiprotocol Switching Hub EtherFlex Module using material provided in the field B/M P/N 29H4289.

Machines Affected

This installation instruction, part number P/N 29H4289 EC level E28017, applies to 8260 Nways(*) Multiprotocol Switching Hub feature code 1004,

Requirements

For Out-of-Band download method.

Updating software microcode using the download Out-of-Band method requires a workstation with emulated ASCII terminal and the support of XMODEM protocol for file transfer. The workstation is connected to the console port of the management module either locally using a null modem, or remotely.

ASCII terminal emulation and XMODEM protocol are offered by many products such as:

DOS platform

- FTTERM
- ProComm Plus for DOS
- ProComm(**) for DOS

Note: This product is the one IBM provides in its Universal Code Download Kit (UCDK) part number 80G3150. Refer to *Installation Instructions for IBM Universal Code Download Kit*, part number 80G3152.

Windows(**) Platform

- ProComm Plus for Windows
- Windows Terminal function

OS/2(*) Platform

Softerm Custom(**)

AIX(*) Platform

Asynchronous Terminal Emulation (ATE)

The above list is not exhaustive and whatever the product one may use, the emulated ASCII terminal line settings should be set to the factory defaults for the first connection:

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Baud rate: 9600 bps

Data bits: 8
Parity: None
Stop bits: 1

The terminal parameters should be setup as follows:

Terminal emulation: VT100 (preferred)

Duplex: Full Flow Control: None

For Inband download method.

The DMM provides an inband download feature that allows you to update your DMM or modules operational or boot EPROMs using TFTP (Trivial File Transfer Protocol).

You must check the following prerequisites prior to initializing the download.

Have a TFTP server on the network to perform inband downloads.

Verify IP connectivity from the TFTP server to the DMM

Important -

If your TFTP server is running in a DOS environment

Check that the current directory of your PC is the one containing the binary file you want to download when you start the server.

If your TFTP server is running in a OS/2 environment

If the TFTP server has been started in foreground session check that you gave access restricted to the directory where the binary file resides (in opposition with the TFTP server started by INETD super server).

If your TFTP server is running in a AIX environment

ensure the binary file may be read by everyone . If a file "tftpaccess.ctl" exists in /etc be sure that at least one "allow" line is provided to allow access to the path where the file resides.

For more on that see below the details in the section Inband Download.

Installation

The installation of new version of software microcode requires the following tasks to be performed.

Use the distribution diskette to copy the files on the hard disk on the workstation (DOS or AIX).

Upgrade the module using one of the download methods available.

Distribution Diskette

There is one diskette provided (P/N 29H4294) with the Field B/M.

Distribution Diskette for EtherFlex Module

The diskette, part number P/N 29H4294, contains:

The operational microcode (ETHFV101.OP) of the EtherFlex Module.

A ProComm DOS command file (ETHFOPER.CMD).

The boot microcode (ETHFV100. BT) of the EtherFlex Module.

A ProComm DOS command file (ETHFBOOT.CMD).

These Instructions in ASCII format INSTALL.DOC

Safety

Since this update is to be performed with machine powered on, review the **Safety Notices** delivered with the shipping group.

References

Installation Instructions for IBM Universal Code Download Kit, part number 80G3152.

8260 DMM Commands Guide, form number SA33-0275-03

8260 DMM User's Guide, form number SA33-0259-04

ProComm Reference Manual.

8260 Ethernet Flexible Concentration Module Release Note PN P/N 29H4261.

Upgrading the EtherFlex Module operational code

Download Out-of-Band

General Scenario

- 1. Establish the connection between your Workstation and the management module. Refer to the appropriate *Installation and Operations Guide*, or *User's Guide*.
- 2. Start the ASCII Terminal Emulator
- 3. Start the download out-of-band procedure that pertains to the Management module the terminal is connected to.
- 4. When the management module is expecting the file to be sent, start the send file procedure .

Scenario for UCDK Users

- 1. Establish the connection between your DOS station and the management module. Refer to the appropriate *Installation and Operations Guide*, or *User's Guide*.
- 2. Start the ProComm software
- 3. After the terminal screen is displayed, press the "Alt-B" keys to specify the diskette unit where the distribution diskette will be mounted (in the "PATH" input field).
- 4. Insert the IBM Distribution Diskette P/N 29H4294
- 5. Start the download out-of-band procedure that pertains to the Management module the terminal is connected to i.e.

Enter the command **download out_of_band module <slot.subslot> operational** to initiate the download of operational code to the EtherFlex Module specified by slot and subslot information.

When the management module is expecting the file to be sent (you may see the "Please initiate file transfer" prompt message):

- a. Press the "Alt-F5" key
- b. **you must select the ETHFOPER.CMD file** in order to initiate the download of the Oper code version V1.01 on the EtherFlex Module
- c. File transfer progress will be indicated on the terminal until completion.

Download Inband

The DMM provides an inband download feature that allows you to update 8260 modules using TFTP (Trivial File Transfer Protocol).

Use the following procedure to perform an inband download.

- 1. Verify that the TFTP server is able to PING the DMM.
- 2. Be sure to have running TFTP Daemon on your server.

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- 3. Copy the operational code files on a directory of your TFTP server.
- 4. Configure the TFTP parameters in the DMM by issuing the following management commands as shown:
 - a. > set tftp file_name <name of the file> (you may need a path)
 - b. > set tftp server_ip_address <ip address of your TFTP server>
 - c. > clear tftp results
 - d. > save tftp

Note:

This can be accomplished either by TELNETing to the DMM or by directly attaching to the DMM front panel serial port via and RS-232 connection.

- 5. Issue the SHOW TFTP command to verify the TFTP parameters previously set.
 - > SHOW TFTP
- 6. Issue the appropriate INBAND DOWNLOAD command as shown below to begin the download.

download inband module <slot.subslot> operational to initiate the download of operational code to the module specified by slot and subslot information.

- 7. Once the download process begins, do no press any keys or interfere with the process. You will have messages prompted to you.
- 8. Verify that the code is now the updated version with SHOW DEVICE command.

After Installation

Labelling

After the upgrade of the microcode, you may change from current P/Ns to the new P/Ns as follow:

New Part Number for EtherFlex Module is P/N 29H4286

End of Document

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