## 5.1.4 Serial Port Operation

As is shown in Figures 57 and 5-8, a number of serial port diagnostic and maintenance commands are available for the user in the 'Serial Port Menu'. The menu options available will be identical for Hyperterminal as well as for any other communication software utility tool, such as Procomm Plus. The differences occur in the way that several of the commands proceed past the point of selecting the menu item. For the benefit of new users however, the whole sequence will be presented here for Hyperterminal, and then set out again separately later, for Procomm Plus.

## 5.1.4.1.1 '?': Show Serial Port Service Utility Key Assignments Menu

This command will display a list of functions as shown in Figure 5-7. If using the SCSI-FC Router in a distance solution, please note that functions that appear on the screen in Figure 5-7 are utilized with the host router (SCSI-FC Router H). This is also the screen that will appear if the router is being used as a connectivity device. Figure 5-8 shows the menu that appears for use by the device router (SCSI-FC Fabric Router).

Serial Port Service Utility Key Assignments:

'1': Show VPD
'2': Show SCSI Map
'R': Force Hardware Reset
'C': Clean Up Configuration Table
'H': Download SCSI-FC Router H Microcode From Local Computer
'D': Download SCSI-FC Router D Microcode From Local Computer
'?': Show Serial Port Service Utility Key Assignments Menu
'q': Quit Serial Port Service Utility:

Figure 5-7. Serial Port Menu (for Host Router in Distance Solution)

191. Char User Court - Utility Ver Assistants Mars	User	Service Utility Key Assignments:
<pre>'? : Snow User Service Utility Key Assignments Menu '1': Show VPD '2': Show LUN Map '3': Download SVE Microcode from Local Computer '4': View/Change Response to SV Management Programs '5': Clear Error Log '6': View/Change Interface Configuration '7': Virtual Drive Utility '9': Clear SAN database 'R': RASD '0': Ouit Serial Port Service Utility</pre>	'?': '1': '2': '3': '4': '5': '6': '7': '9': 'R':	Show User Service Utility Key Assignments Menu Show VPD Show LUN Map Download SVE Microcode from Local Computer View/Change Response to SV Management Programs Clear Error Log View/Change Interface Configuration Virtual Drive Utility Clear SAN database RASD Ouit Serial Port Service Utility

Figure 5-8. Serial Port Menu (for Fabric Solution)

## 5.1.4.1.6 'H' or '3': Download SCSIFC Router Microcode

- This function is used to update the microcode for the local *host* router.
  - 1. Ensure that the SCSI-FC Router is in the host mode.
- 2. Enter the upper-case letter 'H' for the distancing router and '3' for the Fabric Router.

Se Edit Mew Sa ]	nal Darster Help							
D 😹 😂 😃	16 B							16
Serial Port Serv	ice Utility I	Key Assignme	ents:					
11: Display VPD 22: Show SCSI M 72: Chore Hardwar 73: Chore Hardwar 73: Chore Hardwar 74: Devenloed SCS 72: Show Serial Po 74: Quit Senal Lot	11: Display VPD 21: Show SCSI Map 72: Show SCSI Map 73: Cheen Up Configuration Table 74: Devaloed SCSI-PC Router H Microcode From Local Computer 74: Devaloed SCSI-PC Router D Microcode From Local Computer 72: Show Serial Port Service Utility Key Assignments Menu 74: Quit Serial Loui Service Utility							
Stopping Hardw Stopping TochL TLCTRL - 0x000 TISTAT - 0x10A FMSTAT - 0x10A HUNCLOX - 0x10A Dounload Micro	аге ile 00001 ЛА15р ЛААРА НИМИН HUMUNH	Local Co <b>np</b>	uter					
Please Wait Un ReceivingG	Lil Buul ( GCC_ ,	Jp Ayain						
Com ested 0.00.11	VT100	57600 8-K-1	SCHOLL	1,41 5	NUM Laplu	e I mnt scho		- 

- 3. The SLIC will respond as in the screen shot above, indicating that it is ready to receive the microcode file.
- 4. At this point, despite the ongoing screen feedback message, the router is not actually receiving anything, until the Hyperterminal program is instructed, as to what is required to provide. There will only be a limited time period allowing the user to progress to the following step providing this instruction, before the router exits from this stage of the process, due to an in-built 'time-out' mechanism. If premature evacuation occurs, simply repeat the process described to here.
- 5. From the HyperTerminal menu bar, select "Transfer, Send File".

Select File to Send         Look in:       My Documents         Expenses       # 14_756fe.ima         My Pictures       hp300slic.doc         Purchase       hpperterm.doc         Time_Off       pnpposix.txt         091799.log       swcache.doc         10-11_trip.doc       I Turducken.txt         14_756fd.ima       u3_756fe.ima	?×       ***** 2 **** 1 *         Image       Image         Image       Image				
File name: Files of type: All Files (*.*) C': Clean Up Configur 'I': Download FibreLir 'T': Download FibreLir '?': Show Serial Port 'q': Quit Serial Port Stopping hardware Stopping TachLite TLCTRL = 0x00000001 U STOL = 0x20000150					
FMSTAT = 0x10000000 FMSTAT = 0x10000000 ERQCIDX = 0x00000000 Download FibreLink I N Please Wait Until Boot ReceivingCCCCCCCCC	Send     Close     Cancel       Up Again       CCCCCCCC_       57500 8-N-1				

6. Chose Xmodem in the Protocol box.

- 7. Click on Browse to search on the local computer or network, to select the microcode file that will be downloaded to the local router. Click on the microcode filename, then click Open. The microcode filename will appear in the Filename box of the Send File dialog box. Click Send to start the download.
- 8. At this point, the actual download will commence, provided that the process has not timed out, as mentioned just prior.
- 9. Wait for download to complete to begin normal operations.

*Warning:* Do not download new microcode to the SCSI-FC if the SCSI-FC is being utilized by the operating system. The SCSI-FC will reset itself after the download is complete, which can cause lost I/Os and system panic.