

SATA-IP exFAT Demo Instruction on ZC706

Rev1.0 9-Sep-13

This document describes how to evaluate SATA-IP exFAT demo on ZC706 board.

1 Environment

For real board evaluation of exFAT reference design, environment shown in Figure 1-1 is required.



Figure 1-1 Evaluation environment using reference design bit-file

<u>Note</u>: For evaluation version, IP-Core has 1-hour time limitation to use. After 1-hour use, IP-core will stop any data transfer.



2 Evaluation procedure

- Check all system is power off
- Connect FMC SATA RAID board to FMC-HPC connector (J37) <u>Note</u>: FMC SATA RAID board is provided by Design Gateway.
- Connect power to power connector on FMC SATA RAID board
- Connect SATA3/SATA2 Device to CN0 on FMC SATA RAID board
- Set DIPSW bit [2:1] at GPIO DIP SW12 position, as shown in Figure 2-1 to select SATA speed mode. The description is described in Table 1.



Figure 2-1 DIPSW setting for selecting auto-negotiation mode

DIPSW[2]	DIPSW[1]	Description
'1'	'1'	Fixed-speed at SATA3 (6.0 Gbps)
'1'	'0'	Fixed-speed at SATA2 (3.0 Gbps)
'0'	'X'	Auto-speed negotiation mode
Tabl	e 1 DIPSW s	setting to select SATA speed

- Connect USB mini B cable from J21 on ZC706 to USB Port on PC for Serial Console
- Connect USB micro B cable on U30 of ZC706 to USB Port on PC for JTAG programming
- Connect Power cable to ZC706 board and then power up.
- Open serial monitoring software such as HyperTerminal. Terminal settings should be (Baud Rate=115,200 Data=8 bit Non-Parity Stop=1).
- Copy "ready_for_download_exfat" folder to PC.
- Open "ISE Design Suite Command Prompt" and change working directory to "ready_for_download_exfat" folder.

🗛 ISE Design Suite Command Prompt	
C:\Xilinx\14.4\ISE_DS>d:	<u> </u>
D:\>cd ready_for_download_exfat	
D:\ready_for_download_exfat>	

Figure 2-2 ISE Design Suite Command Prompt



• Type "zc706_bist_exfat.bat" to start downloading configuration file and the firmware. On the console, "Download 10 ... Done" is displayed after both bit file and firmware file are loaded complete. Then, user can exit this menu and see LED status and Serial console.

📾 ISE Design Suite Command Prompt	
D:\ready_for_download_exfat>zc706_bist_exfat.bat	
D:\ready_for_download_exfat>xmd -tcl download_bit.tcl system.bit Xilinx Microprocessor Debugger (XMD) Engine Xilinx EDK 14.4 Build EDK_P.49d Convright (c) 1995-2012 Xilinx, Inc. All rights reserved.	
Executing user script : download_bit.tcl Programming Bitstream system.bit Fpga Programming Progress	
	_

Figure 2-3 Downloading configuration file

🗪 ISE Design Suite Command Prompt _ 🗆 × ۰ CortexA9 Processor Configuration Version.0×00000003 User ID.....0x00000000 No of PC Breakpoints.....6 No of Addr/Data Watchpoints.....1 Connected to "arm" target. id = 64 Starting GDB server for "arm" target (id = 64) at TCP port no 1234 Target reset successfully Enabling level shifters and clearing fabric port resets Info: Downloading Program -- sata_exfat.elf section, .text: 0x0000000-0x0000abb7 section, .init: 0x0000abb8-0x0000abcf section, fini: 0x0000abd0-0x0000abe7 section, .rodata: 0x0000abe8-0x0000bcfb section, .data: 0x000bd00-0x0000db2b section, .eh_frame: 0x000db2c-0x0000db2f section, .bss: 0x000db30-0x0000ddff section, .mmu_tbl: 0x0000de00-0x00013fff section, .init_array: 0x00014000-0x00014007 section, .fini_array: 0x00014008-0x0001400b section, .heap: 0x0001400c-0x0001440f section, .tack: 0x00014410-0x0001580f Download Progress.10.20.30.40.50.60..70.80.90.Done Setting PC with Program Start Hddress 0x00000000 Processor started. Type "stop" to stop processor RUNNING> Disconnected from Target 64 Disconnected from Target 352 D:\ready_for_download_exfat> P

Figure 2-4 End of firmware downloading



 Check GPIO LEDs status on ZC706 board at LEDL and LEDC. Both LEDs must be ON, as shown in Figure 2-5 and Figure 2-6. LEDR status depends on SATA speed mode. Each LED description is described as follows.



Figure 2-5 LED status after system set up complete on SATA-3 speed



Figure 2-6 LED status after system set up complete on SATA-2 speed

LED	ON	OFF
LEDL	OK	150 MHz of SATA clock on FMC SATA RAID cannot lock. Please check 150
		MHz clock source on FMC SATA RAID board.
LEDC	OK	SATA-IP cannot detect SATA device. Please check SATA device and the
		connection.
LEDR	SATA-III	SATA-II
LED0	BLINK : 1	1-hour timeout
	Tak	ble 2 LED Status of host reference design on SP605 board

- At serial console on PC, main menu will be displayed as shown in Figure 2-7. Please check serial connection if this menu is not displayed on console. The step on boot screen is follows.
 - (1) Disk information is displayed to show name and size.
 - (2) Ask user to set date which is the created date when creating file/directory. Press 'y' to set date, or press other keys to skip setting and use default value instead (Default is 1 Mar 2013).
 - (3) a. Show File system information if exFAT file system has already detected on this disk.b. If no exFAT file system on disk, user needs to press 'y' to confirm and start format process, as shown in Figure 2-8.
 - (4) Information about exFAT file system on disk is shown in next line.
 - (5) Main Menu to show all supported command in this demo is displayed on last line.

After that, user can start testing any operation by typing command, following main menu. More details about each command are follows.



🖳 COM3:115200baud - Tera Term ¥T 📃	🖳 COM3:115200baud - Tera Term ¥T 📃 💶 🗙
<u> Eile E</u> dit <u>S</u> etup C <u>o</u> ntrol <u>W</u> indow <u>H</u> elp	<u>File Edit S</u> etup C <u>o</u> ntrol <u>W</u> indow <u>H</u> elp
Reset in loop. Start SATA with exFAT demo[Ver = 1.0] Haiting device ready Identifu Device Model name : Sansung SSD 840 PRO Series Abbit LBA is supported Capacity : 2566B (HMX LBA = 500118192) UDMA mode 6 supported Press 'y' to set current date (Default=01 Mar 2013) -> n HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	<pre>Start SATA with exFAT demo(Ver = 1.0) Haiting device ready Identify Device Identify Device Identify Device Rodel name : Sansung SSD 840 PRO Series 48bit LBR is supported Capacity : 25668 (MRX LBR = 500118192) UDMA mode 6 supported Press 'y' to set current date (Default=01 Mar 2013) -> y Input Current Date [1-31]=[5] Input Current Month [1-12]=[9] Input Current Month [1-12]=[9] Input Current Vear [1980-2107]= 2013 Input Current date setting Input Current Jack = 42610000 File System Type = EXFAT Total Capacity = 25668 Free Size = 24768</pre>
HTT Command List HTT Many shows all commands	+++++ Pomand ist +++
Command List Market Milena Shows an Command's	
Kusage> <description> for exFAI demo</description>	Kusage> <description></description>
HELP Provide help information FH [drive name] Formats a disk DIR Displays a list of files and subdirectories in a directory CD Displays the name of the current directory CD [folder name] Changes the current directory HK [folder name] Creates a directory NH [file name] Creates a file RD [file name] Creates a file RD [file/folder name] Deletes a file/folder Please type your command	HELP Provide help information FH [drive name] Formats a disk DIR Displays a list of files and subdirectories in a directory CD Displays the name of the current directory CD [folder name] Changes the current directory HK [folder name] Creates a directory NH [file name] Creates a file RD [file name] Deletes a file\folder Please type your command

Figure 2-7 Main Menu when exFAT detect in disk

💹 COM3:115200baud - Tera Term VT	
Eile Edit Setup Control Window Help	
Press 'u' to set current date (Default=01 Mar 2013) -> n HBR Error: Not found File System(exFAT)-> Format Not Detect exFAT on Disk Press 'u' to confirm format Disk : U Confirm to start format disk Format ing Format complete message	
++++ Drive Information +++ Volume ID = 42610000 File System Type = EXFAT Total Capacity = 2566B Free Size = 25568	

Figure 2-8 Format menu when exFAT file system not found in disk



3 Main Menu

3.1 HELP

Command -> help

Select this command to display all support commands on console with its description. The example result is shown in Figure 3-1.

🖳 COM3:115200ba	ud - Tera Term	VT _	
<u>File E</u> dit <u>S</u> etup C	ontrol <u>W</u> indow	Help	
->help			
++++ Connand List	++++		
Kusage>	<description></description>		
HELP FH [drive name] DIR CD CD [folder name] HK [folder name] NH [file name] RD [file name] DL [file\folder name]	Provide help inf Fornats a disk Displays a list Displays the nar Changes the curr Creates a direct Creates a file Read file in hey Deletes a file\f	ormation of files and subdirectories in a directory eent directory ory colder	
<u>[`</u>			-

Figure 3-1 HELP command



3.2 FORMAT

Command -> fm [drive name]

Select this command to format disk to exFAT file system. User needs to input

- (1) Drive Name: This input can receive up to 11 Characters. Only 1st 11th Character will be used if too long length is received.
- (2) Press 'y' to confirm operation and start format. Then, wait until "Format complete" and drive information are displayed after operation end. If press other inputs, operation will be cancelled.

Figure 3-3 and Figure 3-4 shows the error when Drive name includes invalid Characters and too long file name length sequentially.

💆 COM3:115200baud - Tera Term VT	💹 COM3:115200baud - Tera Term ¥T
Eile Edit Setup Control Window He	Eile Edit Setup Control Window Hel
->fn DgDisk Press y to confirm format Disk : U Formating Format complete	->fn DgDisk Press 'y' to confirm format Disk : <mark>N</mark> Cancel format Disk
++++ Drive Information +++ Volume ID = 42610000 File System Type = EXFAT Total Capacity = 25668 Free Size = 25568	+++ Drive Information +++ Nolume ID = 42610000 File System Type = EXFAT Total Capacity = 25668 Free Size = 25568 ->
->	

Figure 3-2 FORMAT command

LUM	13:1	15200	uauu - I	era i erm	AU	
ile <u>E</u>	Jit	Setup	Control	Window	Help	
	_					
fn dal) 					
fn dal Cann	ot 1	used to	be file/fo	older/driv	e name	
fn dal Cann	ot 1	used to	be file/fo	older/driv	e name	

Figure 3-3 Error from invalid character





Command -> dir

Select this command to display list of all files and sub-directories within current directory. The output of this command is

(1) Path of current directory. If space is found, it means current directory is root directory.

- (2) Modified date and time of each file and sub-directory.
- (3) File size in case of file type or <DIR> in case of directory type.
- (4) File/Directory Name
- (5) Free Space size in disk





 $\label{eq:sata_ip_exfat_demo_instruction_zc7_en.doc} dg_sata_ip_exfat_demo_instruction_zc7_en.doc \\ \textbf{3.4 CD}$

Command -> cd, cd .., or cd [sub-directory name]

Select this command to change current directory to parent by "cd .." or to sub-directory by "cd [sub-directory name]. In case of only "cd" input, path of current directory will be displayed. The examples of the three commands are displayed in Figure 3-6 to Figure 3-8.

"[sub-directory name] Not Found" message will be displayed if name input is not matched with any directory within current directory, as shown in Figure 3-9.

Eile	Edit	Setup	Control	Window	Help	
->cd .ocat	ion :	\HUUU1	Display	/ current p	ath	
->						-

Figure 3-6 CD command

💆 C	-OX					
File	Edit	Setup	Control	Window	Help	
Ned	00004	ė.				
Locat	ion :	ADDD1\B	0001 Go	to sub-dire	ctory	-
-5						-

Figure 3-7 Go to sub-directory

	uma:	115200	Daug - I	era Term		
Eile	Edit	Setup	Control	Window	Help	
) cd						-
ocat	ion :	\A0001\B	0001			
ocat	ion :	\AQOO1\B	0001			
ocat >cd ocat	ion : ion :	\A0001\B \A0001	0001 Go to pan	ent directo	ry.	

Figure 3-8 Go to parent directory



Figure 3-9 Directory Not Found



3.5 MAKE

Command -> mk [folder name]

Select this command to create new directory within current directory.

- Name input can support up to 255 Characters, following exFAT specification.
- User can select to set time of new file by press 'y'. If press other inputs, it will use default time (01.23), as shown in Figure 3-10.

💹 COM3:115200baud - Tera Term VT	📕 💹 COM3:115200baud - Tera Term VT	- O ×
Eile Edit Setup Control Window Help	Eile Edit Setup Control Window Help	
->mk A0001	->nk A0002	1
Press 'y' to set current time (Default=01.23) -> U Input Current Hour [0-23]= [2] Input Current Hinute [0-59]= 34 ->dir Location : D1/03/2013, 12:34 <dir> A0001 Free Size = 25568 -></dir>	Press 'y' to set current time (Default=01.23) -> n ->dir Location : 01/03/2013, 12:34 < <u>018> A0001</u> 01/03/2013, 01:23 < <u>018> A0002</u> Free Size = 25508 ->	

Figure 3-10 MAKE command

Three errors are shown in the example, i.e.

- (1) Error from invalid character to be directory name, as shown in Figure 3-11
- (2) Error from directory name already exist in current directory, as shown in Figure 3-12
- (3) Auto-running when directory name input is equal to 255 Character, as shown in Figure 3-13.

💆 C	- O ×					
Eile	Edit	Setup	Control	Window	Help	
->nk	[
Ί' c	annot	used to	be file/fo	older/drive	e nane	
Inval	id com	nand				-

Figure 3-11 Error from invalid character

File	Edit	Setup	Control	Window	Help	
SHL-	90001					
0004	Bloop	du Eviet	Specify	Different	File or	Folder name



<u> </u>	OM3:1	115200	baud - T	era Term	VT III VI
Eile	Edit	Setup	Control	Window	Help
->нk 56789 56789 Махін Сонпа Ртеss	012345 012345 012345 012345 ин fol ин fol nd pro	67890123 67890123 67890123 der/file cessing. o set cu	456789012: 456789012: 4 name = 2! 	3456789012: 3456789012: 55 Chars 2 (Default:	3456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234 3456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234
Ĺ					-
				Figu	re 3-13 Maximum character received

Command -> nw [file name]

Select this command to create new file within current directory. The input of this command is follows.

- (1) File name: The input can receive up to 255 Characters.
- (2) Time setting: Press 'y' to set up created time for new file, or press other inputs to use default time.
- (3) File size: The input unit is sector size (512 byte size).
- (4) Test pattern format: 5 patterns can be selected, i.e. [0] 32-bit Increment, [1] 32-bit Decrement, [2] All Zero, [3] All One, and [4] LFSR counter. Test pattern is filled in buffer up to 64 MB as maximum size. If file size is more than 64 MB, the next 64 MB will be similar to the first 64 MB.

There are two modes for writing data to disk, i.e. Burst and Single. If free cluster to store data is contiguous, it will run in Burst mode which will achieve good performance. On the contrary, run on Single mode with transfer size = 1 cluster when free cluster is not contiguous. Smaller transfer size in Single mode makes performance worse than Burst mode which transfer size in each transaction is bigger, as shown in Figure 3-15.

🖳 COM3:115200baud - Tera Term VT 📃	🖳 COM3:115200baud - Tera Term VT 📃 📃 🔀
<u>Eile E</u> dit <u>S</u> etup C <u>o</u> ntrol <u>W</u> indow <u>H</u> elp	<u>File E</u> dit <u>S</u> etup C <u>o</u> ntrol <u>W</u> indow <u>H</u> elp
->nu 0001 Press 'y' to set current time (Default=01.23) -> y Input Current Hour IO-23]= 12 Input Current Hinute IO-591= 34 Input Sector Size (512 Byte) of this file (1- 499984896)= 0x20000 Hrite Pattern ?: IOIInc32 [1]Dec32 [2]All_O [3]All_1 [4]LFSR => 0 Prepare Data Data ready Burst Hrite Total = 65[MB], Time = 160[ms], Transfer speed = 417[MB/s]	->nu 0002 Press 'y' to set current time (Default=01.23) -> n Input Sector Size (512 Byte) of this file (1- 499853824)= 0x1000000 Hrite Pattern ? : [0]Inc32 [1]Dec32 [2]All_0 [3]All_1 [4]LFSR => 1 Prepare Data Data ready Burst Hrite 01234567 Total = 8[GB], Time = 19[s], Transfer speed = 432[HB/s] ->

Figure 3-14 NEW command

🖳 COM3:115200baud - Tera Term VT	
<u>File Edit Setup Control Window Help</u>	
->nu 0010	-
Press 'y' to set current time (Default=01.23) -> y Input Current Hour [0-23]= 23 Input Current Hinute [0-59]= 59 Input Sector Size (512 Byte) of this file (1- 483076608)= 0x20000 Write Pattern ? : [0]Inc32 [1]Dec32 [2]All_0 [3]All_1 [4]LFSR => Prepare Data Data ready Available Size is not continuous Single Write	0
Total = 65[MB] , Time = 621[ms] , Transfer speed = 108[MB/s] ->	•
Eigure 2 15 NEW command with Single m	



Similar to make command, three errors are shown to be example, as shown in Figure 3-16 to Figure 3-18.



<u> </u>	OM3:1	15200	baud - T	era Term	VT		
Eile	Edit	Setup	Control	Window	Help		
->пн 0002	0002 Already	ı Exist.	Specify I	Different I	File or	Folder name	
?							•

Figure 3-17 Error from exist name in directory



Figure 3-18 Maximum character received



3.7 READ

Command -> rd [file name]

Select this command to read/verify or dump data in request file. The input of this command is follows.

- (1) File name: Input request file name in current directory
- (2) Mode: Select operation by [1]-Read/Verify data [2]-Dump data to console.

In Read/Verify mode, data will be verified by user selected test pattern when data size in file is 64 MB at most, as shown in the left window of Figure 3-19, while "No verification" will be displayed for file size more than 64 MB.

💯 COM3:115200baud - Tera Term ¥T	💯 COM3:115200baud - Tera Term ¥T	
File Edit Setup Control Window Help	<u>File E</u> dit <u>S</u> etup C <u>o</u> ntrol <u>W</u> indow <u>H</u> elp	
->rd 0001 Select [1]-Read data [2]-Dump data : 1 Burst Read Total = _65[MB] , Time = _120[ms] , Transfer speed = _559[MB/s] Verify Pattern ? : [0]Inc32 [1]Dec32 [2]R11_0 [3]R11_1 [4]LFSR => 0 Verify DataStart check Success	->rd OOO2 Select [1]-Read data [2]-Dump data : 1 Burst Read D1234567 Total = 8[GB] , Time = 15[s] , Transfer speed = 561[MB/s] No verification ->	•

Figure 3-19 READ command

🖳 COM3:11	l 5200bau	d - Tera i	Ferm ¥T			
<u>File E</u> dit ;	<u>5</u> etup C <u>o</u>	ntrol <u>W</u> in	idow <u>H</u> elj	р		
->rd 0001						
Select [1]-Re	ad data [2]-Duнp dat	a : 2			
[0x00000000]	00000000	00000001	00000002	00000003		
[0x00000010]	00000004	00000005	00000006	00000007		
[0x00000020]	00000008	00000009	0000000A	0000000B		
[0x00000030]	0000000C	00000000	0000000E	0000000F		
[0x00000040]	00000010	00000011	00000012	00000013		
[0x00000050]	00000014	00000015	00000016	00000017		
[0x00000060]	00000018	00000019	0000001A	0000001B		
[0×00000070]	0000001C	0000001D	0000001E	0000001F		
[0x00000080]	00000020	00000021	00000022	00000023		
[0x00000090]	00000024	00000025	00000026	00000027		
[0x000000A0]	00000028	00000029	0000002A	0000002B		
[0×000000B0]	0000002C	00000020	0000002E	0000002F		
[0×000000000]	00000030	00000031	00000032	00000033		
[0×00000000]	00000034	00000035	00000036	00000037		
[0×000000E0]	00000038	00000039	0000003A	0000003B		
[DxDDDDDDDFD]	DDDDDD3C	00000030	DDDDDD3E	DDDDDD3F		
[0x00000100]	00000040	00000041	00000042	00000043		
[0x00000110]	00000044	00000045	00000046	00000047		
[0x00000120]	00000048	00000049	DDDDDDD4H	DDDDDDD4B		
[DXDDDDD130]	DUDUUUU4C	00000040	DUUUUUU4E	DUDUUUU4F		
[DX00000140]	00000050	00000051	00000052	00000053		
LUXUUUUU1501	00000054	00000055	00000056	00000057		
LUXUUUUU1603	00000058	00000059	DUDUUUUSH	DUDUUUUSB		
LUXUUUUU1/UJ	DUDUUUSC	00000050	DUDUUUUSE	DUDUUUSF		
LUXUUUUU18U1	000000000	000000000	000000002	000000053		
LUXUUUUU1901	00000064	00000005	000000000	00000067		
LUXUUUUUU1HUJ	00000008	000000009	DUDUDUDOH	DDDDDDDBB		
LUXUUUUU1801	000000000	000000000	DUDUUUUDE	00000000		
LOXUUUUUUUUUUUUU	00000070	00000071	00000072	00000073		
LOXUUUUUUUUUUU	00000074	00000075	00000070	00000077		
10X000001E01	00000078	00000079	00000078	00000078		
[Clost inuc2	00000070	00000070	000000/E	000000/F		
rcjour mue:						-1
1					•	<u> </u>

Figure 3-20 Dump mode



As shown in Figure 3-20, 512-byte data within file will be displayed on Serial console when selecting dump mode. Press 'C' to continue dumping in next sector, or press other inputs to exit operation.

Similar to new command, if FAT chain is detected in request file, it will run in Single mode which performance will be less than burst mode from slower transfer size in each transaction, as shown in Figure 3-21.

💹 COM3:115200baud - Tera Term VT 📃	
<u> Eile Edit Setup Control Window H</u> elp	
->rd 0010 Select [1]-Read data [2]-Dunp data : 1 FAT Chain Detect->Single Read D123456789U12345 Total = 65[MB] , Time = 173[ms] , Transfer speed = 386[MB/s] Verify Pattern ? : [0]Inc32 [1]Dec32 [2]All_0 [3]All_1 [4]LFSR => Verify DataStart check Success ->	0
Figure 3-21 READ command with Single mo	de

Two errors are shown in the example, i.e.

- (1) Verify Error when data in file is different from expect pattern during verification, as shown in Figure 3-22.
- (2) Error when request file name is not found within current directory, as shown in Figure 3-23.

🖳 COM3:115200baud - Tera Term VT 📃 🔲	×
<u> Eile Edit S</u> etup C <u>o</u> ntrol <u>W</u> indow <u>H</u> elp	
->rd 0001 Select [1]-Read data [2]-Dump data : 1 Burst Read Total = 65[MB] , Time = 120[ms] , Transfer speed = 558[MB/s] Verify Pattern ? : [0]Inc32 [1]Dec32 [2]All_0 [3]All_1 [4]LFSR => 1 Verify DataStart check	•
Data Mismatch ADDR[0x0000000]=> T[0xFFFFFFF] F[0x00000000]	
->	•

Figure 3-22 Verify Error



Figure 3-23 File Not Found



dg_sata_ip_exfat_demo_instruction_zc7_en.doc **3.8 DELETE**

Command -> dl [file name or folder name]

Select this command to delete request file or folder within current directory. User input (1) File/Folder name to delete

(2) Press 'y' to confirm deleting command.

If deleted name is directory name, all internal files and sub-directories will be also deleted.

💆 COM3:115200baud - Tera Term YT	🚨 COM3:115200baud - Tera Term VT
Eile Edit Setup Control Window Help	Eile Edit Setup Control Window Help
->dir .ocation : 11/03/2013, 01:23 <0IR> A0001 11/03/2013, 01:23 64.000HB 0001 11/03/2013, 01:23 512.000HB 0002 11/03/2013, 01:23 8.0006B 0003 Free Size = 2466B ->d1 0001 Press 'y' to confirm delete/remove : y Delete processing	->dir Location : 01/03/2013, 01:23 <dir> A0001 01/03/2013, 01:23 512.000HB 0002 01/03/2013, 01:23 8.0006B 0003 Free Size = 2466B ->d1 A0001 Press 'y' to confirm delete/remove : y Delete processing Delete folder</dir>

Figure 3-24 DELETE command

Error message is displayed when request directory/file name is not found in current directory, as shown in Figure 3-25.

Eile	Edit	Setup	Control	Window	Help
->dir Locat 01/03 01/03 Free	ion : /2013, /2013, Size	01:23 01:23 = 2466	512.000HB 8.000GB 8	0002 0003	
->d1 0004	0004 Not Fo	und			

Figure 3-25 Not Found Request File/Directory



4 Revision History

Revision	Date	Description	
1.0	9-Sep-13	Initial version release	