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NOTE: Please read through this entire Guide prior to attempting to do the FC recovery.

1. INTRODUCTION

This guide discusses the steps necessary to fix a 7700FC after a failed upgrade attempt.

1.1. REQUIREMENTS

You will need the following equipment in order to update the module Firmware:

- PC with available communications port. The communication speed is 57600 baud, therefore a 486 PC or better with a 16550 UART based communications port is recommended.
- "Straight-thru" serial extension cable (DB9 female to DB9 male).
- Evertz Upgrade cable (multi-colored ribbon cable, Evertz part number WA-S76)
- Terminal program that is capable of Xmodem file transfer protocol (such as TerraTerm HyperTerminal).
- This Guide uses Windows Hyper Terminal and Windows Command Prompt and Windows FTP.



2. **TEMPORARY BOOTLOADER INSTALLATION**

The 7700FC will need to have a known IP address applied. The upgradeRecoverForceIP.bin file will be loaded overtop of the standard FC boot-loader to accomplish this.

LOADING UPGRADERECOVERFORCEIP.BIN 2.1.

- 1. Pull the 7700FC from the 7700 Frame. Set the upgrade jumper to the "UPGRADE" position from the "RUN" position.
- 2. Connect the Evertz serial cable to the 4 Pin header
- 3. Launch Hyper Terminal.
 - Enter a name for the connection -
 - Select the COM port
 - Set connection parameters: (57600, 8, None, 2, None) -

		COM1 Properties
Connection Description	Connect To	Part Settings
New Connection	EC recovery	
Enter a name and choose an icon for the connection:	Enter details for the phone number that you want to dial:	Bits per second: 57600
	Country/region: United States (1)	Data bits: 8
🏹 🌏 💩 🖳 🧐 🕺	Area code: 905	Parity: None
	Connect using: CDM1	Stop bits: 2
OK Cancel	COM1 TCP/IP (Winsock) OK Cancel	Flow control: None
		Restore Defaults
		OK Cancel Ap

4. Insert the 7700FC – Watch for the power up message.

```
EVERTZ 7700FC BOOT MONITOR.
MON8240 1.1 BUILD 9.
COPYRIGHT 2000 EVERTZ MICROSYSTEMS LTD. ALL RIGHTS RESERVED.
UPGRADE JUMPER PRESENT
UPLOAD MAIN PROGRAM
<u></u>
```

Apply



5. In HyperTerminal Select Transfer --> Send File...

Transfer	Help		
Send F	Send File		
Receiv	Receive File		
Captur			
Send T			
Captur	e to Printer	FOR.	
	D 0		

The "Send File" dialog will appear

- 6. Ensure protocol is "Xmodem".
- 7. Click the Browse Button, navigate to and select the file "upgradeRecoverForceIP.bin"



8. "Send" the file





9. A 'transfer window' will open up. Within a few seconds you should see packets being sent



10. When this is complete it should boot automatically, showing the newly set IP at the bottom of the Hyper Terminal window.

UPLOAD OKAY RUNNING 160C	
7700FC FTP UPGRADE SOFTWARE 1.00 build 92 (2008 Oct 31 13:12:05) total memory = 33554432 bytes available memory = 31543296 bytes flash memory = 134217728 bytes hardware address 00:02:c5:10:2d:e2 hostname: fc-default network ipaddr 192.168.9.100 mask 255.255.255.0 gw 192.168.9.1 bc 192.168.9.255	



NOTE: The address 192.168.9.100 cannot be changed at this point, ensure no other equipment on your network uses this address.

- If it does not boot automatically then type "boot" at the HyperTerminal command prompt(">"). Leave the HyperTerminal Window open

- 11. Ensure the 7700FC and the computer are connected to a network
 - OR Connect the PC to the 7700FC via a crossover cable
- 12. Set the PC's IP address to 192.168.9.xxx (where xxx is something between 2 and 254)
 - Make sure that address is not used by other equipment as well.



3. IMAGE FILE INSTALLATION

This section discusses the steps required to transfer the image file via FTP

3.1. LOADING THE IMAGE FILE

1. Open a Command prompt window





2. In the command window Type Ping 192.168.9.100 You should see replies –

C:\Docu	ment	s and	Settings	∖eng>ping	192.168.9	9.100
Pinging	192	.168.9	.100 wit	h 32 byte:	of data	
Reply f Reply f Reply f	rom : rom : rom :	192.16 192.16 192.16	8.9.100: 8.9.100: 8.9.100:	bytes=32 bytes=32 bytes=32	time<1ms time<1ms time<1ms	TTL=128 TTL=128 TTL=128





7. Type "put" <enter>

8. When prompted enter the path to the file: "C:\directory path\latestImagefile.bin image" in this case actually enter the quotes (" ") see screenshot (where "directory path" is actual location of the file) (where latestImagefile.bin is the image file to upgrade) OR Drag and drop the file onto the command window

9. Hit <enter>



10. When prompted for the remote file name type - "image" <enter>



11. The message after pressing enter should be:

"200 PORT command successful." & "150 Opening data connection.".

The ### represent data packets being sent

Remote file image	
200 PORT command successful	
150 Avening data connection	
	4
	J

12. When it is done transmitting it will show the amount of bytes transferred (this value will change with different version of the firmware the value below is an example) and present you with the "ftp>" prompt again.



13. Close the command window

14. Cycle power on the 7700FC card, leaving it off for at least 3 seconds.



4. RELOADING THE ORIGINAL BOOTLOADER

The 7700FC is now running the upgradeRecoverForceIP.bin instead of the standard file. fcboot_2v0_012.bin will be loaded again.

4.1. LOADING FCBOOT_2V0_012.BIN

- 1. Return to the HyperTerminal window.
- 2. Pull the 7700FC from the 7700 Frame. Set the upgrade jumper to the "UPGRADE" position from the "RUN" position.
- 3. Connect the Evertz serial cable to the 4 Pin header
- 4. Launch Hyper Terminal.
 - Enter a name for the connection
 - Select the COM port
 - Set connection parameters: (57600, 8, None, 2, None)

		COM1 Properties	6
Connection Description	Connect To	Part Settings	
New Connection	RC recovery		
Enter a name and choose an icon for the connection:	Enter details for the phone number that you want to dial:	Bits per second: 57600	~
FC recovery	Country/region: United States (1)	Data bits: 8	~
🔊 🔿 🔬 🔤 🛞 🕅	Area code: 905	Parity: None	~
	Phone number:	Stop bits: 2	~
OK Cancel	COMI COMI TCP/IP (Winsock) OK Cancel	Flow control: None	~
		Resto	re Defaults
		OK Cancel	Appl

5. Insert the 7700FC – Watch for the power up message.

```
EVERTZ 7700FC BOOT MONITOR.
MON8240 1.1 BUILD 9.
COPYRIGHT 2000 EVERTZ MICROSYSTEMS LTD. ALL RIGHTS RESERVED.
UPGRADE JUMPER PRESENT
UPLOAD MAIN PROGRAM
§_
```



6. In HyperTerminal Select Transfer --> Send File...

Transfer	Help		
Send F	Send File		
Receiv			
Capture Text			
Send T			
Capture to Printer			
	n n		

The "Send File" dialog will appear

- 7. Ensure protocol is "Xmodem".
- 8. Click the Browse Button, navigate to and select the file " fcboot_2v0_012.bin "
- 9. "Send" the file
- 10. A 'transfer window' will open up. Within a few seconds you should see packets being sent
- 11. 28. When this transfer is complete Remove the 7700FC from the frame and change to jumper from UPGRADE to RUN
- 12. Re-insert the 7700FC card.
- 13. The card should now boot up. If watching from Hyper Terminal it will come to a login prompt.
- 14. Login using:

Login - customer

Password – customer

- 15. Change the IP address to the desired IP and save it.
- 16. Remove the 7700FC disconnect the Evertz Serial Cable
- 17. Re-insert the 7700FC
- 18. After 7700FC boots up, open VistaLINK and look under HARDWARE for the Frame/7700FC