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MTP-22XX & MTP-28XX Flash Update Procedure Using HyperTerminal

Introduction

This procedure describes how to update the firmware on the Telpar MTP-28XX and MTP-22XX thermal printers. This operation is performed through the serial port and the serial interface of the printer.

Materials Required

- 1. Telpar Printer
- 2. Flash update file, 'filename.bin'. Available on the Telpar web site at http://www.telpar.com/Drivers_and_Support/Technical_Bulletins.aspx
- 3. Telpar Serial Cable Adapter 800410-0015
- 4. RS-232 Serial Cable
- 5. Computer
- 6. Serial Port
- 7. Terminal Program (ie. HyperTrm)

Instructions

- 1. Connect a serial cable between a PC and J9 on controller board.

- 2. Start terminal program, (ie HyperTrm) and configure with settings at 115,200-N-8-1. Hypertm example is shown below.
 - a. Start > Programs > Accessories > Communications > HyperTerminal
 - b. Name Configuration
 - c. Select Comm Port
 - d. Configure port settings
 - i. 115,200 Baud
 - ii. 8 Data bits
 - iii. No Parity
 - iv. Flow Control None

COM1 Properties		? 🔀
Port Settings		
<u>B</u> its per second:	115200	~
<u>D</u> ata bits:	8	~
Parity:	None	~
Stop bits:	1	~
Elow control:	None	~
	<u>R</u> est	ore Defaults
	K Cancel	

3. Enable the flash update procedure by setting the Printer Switch 1 (SW1) Position 1 to ON. SW1 is located on the PC board near the buzzer. Position 1 is located farthest to the left.



- 4. Turn the printer power on.
 - a. The Printer LED's will be cycling a pattern and the buzzer will beep.
 - b. A Menu will appear in the HyperTerminal window. If the window does not appear press the 'Enter' key on the keyboard.

🗞 C1 - HyperTerminal	_ 🗆 🔀
Eile Edit View Call Iransfer Help	
D 🚔 📾 🗿 📫 🎦 🖆	
	<u>^</u>
= 4. Command: 'q' to quit JLinkSTR91X.exe	=
= Download firmware:	=
= 1. Use Hyperterm.exe with settings 15200-N-8-1	=
= 2. Place board in Download Mode.	=
= Set Switch 1 Position 1 to ON.	=
= 3. Power On board.	=
Green LED will blink twice, pause and repe	at. =
= Main Menu is displayed on HyperTerminal wi	ndow.=
= 4. Press 1 to erase flash.	=
= 5. Press 2 and use Send File/Ymodem to download	=
e desired file to flash.	=
= 6. Press 3 to verify flash.	=
= 7. Place board in Execute Mode.	=
= Set Switch I Position I to OFF.	=
= 8. Press 4 to exit download and execute flash.	=
200000 Elect Mein Menu	
- 1 - Blase Flash 1	_
= 3 - Verify Flash 3	_
= 4 - Execute The New Program 4	=
= 5 - Program Info 5	=
>	
<u> </u>	
	>
Connected 0:54:00 ANSI 115200 8-N-1 SCROLL CAPS NUM Capture Print echo	

5. Press 'Enter' to display 'In-Application Programming' Menu. (displayed above in 4b)

- 6. Steps to update the flash in the printer:
 - a. Erase the printers flash memory.
 - i. Press '1' to Erase Flash.
 - ii. Wait several seconds for operation to complete.
 - b. Download the update to the printers flash.
 - i. Press '2' to download flash.
 - ii. Select Hyperterm Menu item 'Transfer->Send File...'
 - iii. Browse for flash file to download and select it.
 - iv. Select 'Ymodem' for the Protocol.
 - v. Press 'Send'.
 - vi. Wait for download to complete.
 - c. Verify the update succeeded.
 - i. Press '3' to verify flash.
- 7. Press '4' to execute new program in flash.
- 8. Turn the printer power off.
- 9. Set Printer Switch 1 Position 1 to OFF.
- 10. Print a Self-Test to verify printer operation and firmware version.
 - a. Hold Feed Button while turning printer power on.
 - b. Release Feed button after one beep.