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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 <u>http://www.telpar.com/Drivers\_and\_Support/Technical\_Bulletins.aspx</u>
- 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

Port Settings		
<u>B</u> its per second:	115200	~
<u>D</u> ata bits:	8	~
<u>P</u> arity:	None	~
<u>S</u> top bits:	1	~
Elow control:	None	~
	<u>R</u> e	store Defaults
0	K Cancel	Apply

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 📃 🗖		
e Edit View Call Iransfer Help		
= 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		
Main Menu is displayed on HyperTerminal w	indow.=	
= 4. Press 1 to erase flash.	=	
= 5. Press 2 and use Send File/Ymodem to download	d =	
= desired file to flash.	=	
= 6. Press 3 to verify flash.	=	
7. Place board in Execute Mode.	=	
= Set Switch 1 Position 1 to OFF.	=	
8. Press 4 to exit download and execute flash.	=	
	======	
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= 1 - Erase Flash :		
= 2 - Download Image To the STR91x Internal Flash 3	2 =	
= 3 - Verify Flash :	3 =	
= 4 - Execute The New Program	4 =	
= 5 - Program Info !	5 =	
	====:	
>		
	>	

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.