



# **T5040 Mobile Printer Flash Utility Operation Manual**

Version 2.02

Last update December 2009

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## 1. Operating Environment

- Windows XP/2000/Vista/Windows 7
- PC with Parallel ,USB or Serial Port.

## 2. Main functions and scope of *T5040 Flash Utility*

- Downloading Main Firmware<sup>1</sup>, IPL<sup>2</sup> Firmware and CG<sup>3</sup> Fonts to T5040 printer through Parallel, USB, Serial Port.

## 3. Description of GUI<sup>4</sup> of T5040 Flash Utility

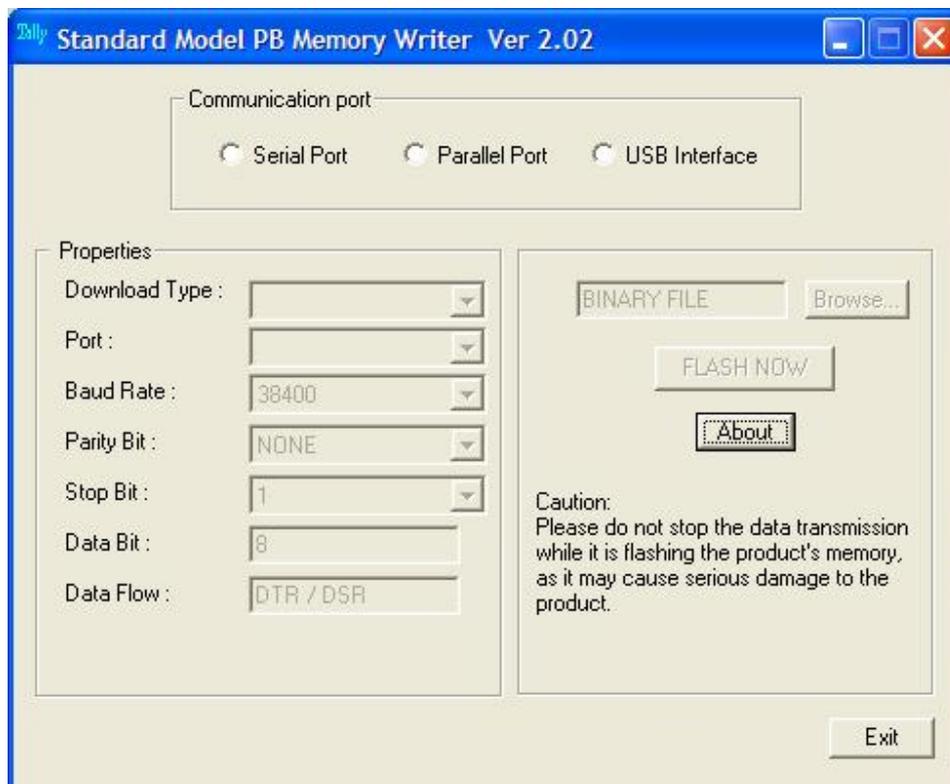


Figure 1 GUI of T5040 Flash Utility

<sup>1</sup> Basic Firmware

<sup>2</sup> Boot Firmware

<sup>3</sup> Character Set

<sup>4</sup> Graphical User Interface

### Download Type

- Determine the download types of the program (Main Firmware), IPL Firmware or the type of CG Font.

### Port

- Determine the Parallel and Serial communication port, which is used for data transfer.

### Baud rate

- Determine the baud rate of the serial communication transfer
- Disabled if parallel port is selected

### Parity Bit

- Determine the parity bit of the serial communication transfer (No parity, Odd/Even Parity)
- Disabled if parallel port is selected

### Stop Bit

- Specifies the number of stop bits to be used. (1 or 2)
- Disabled if parallel port is selected

### Data Bit

- (Fixed) Specifies the number of bits in a byte to be sent and received, the value is set to be 8.
- Disabled if parallel port is selected

### Data Flow

- Enables the DTR (Data Terminal Ready) line when the device is opened and leaves it on.
- The DSR (data-set-ready) signal is monitored for output flow control

### Browse

- Browses for the download file, which is going to be flashed into the printer. Prior to pressing this button, the download type must be selected first.

### Flash Now

- Validate the download configuration and starts flashing.

## 4. Download Procedures

- Determine the communication type (Parallel/USB/Serial)
- Determine the program download type (Main Firmware, IPL Firmware , CG Fonts)
- Select the corresponding binary file by pressing the “Browse” button.
- If serial port is selected, select the communication port, required baud rate, parity bit and stop bit.
- Starts flashing by pressing the “Flash Now” button.
- A “Download successfully completed” dialog box will pop up after finished flashing.

## 5. Remarks

- Ensure that there are no installed printers in the PC/Laptop shares the same COM Port and LPT Port with the flash utility.
- We recommend using the USB Port as it is standard.
- How to enter IPL Mode  
There are two methods to download ROM. By pressing keys and by Command.
  - by keys  
Press and hold down the “User1” + “Stop” keys at POC<sup>5</sup> to go into IPL mode, IPL mode performs downloading F/W and CG to the printer from the Host.  
*Be sure to have the carriage *totally* to the left before POC!*
  - by command  
Printer Power On, then Insert Paper (I/F Set to Ready).
- Attention when you use Serial I/F by switch  
When you perform a download by switch, please set Baud rate in 38400bps, Parity None, Data 8bit, Stop Bit 1.  
When you perform a download by command, please match it with setting of Setup.
- **Pay special attention** if you try to upgrade a non Tally branded printer (i.e. 5040)\* to a T5040 with USB or Parallel interface.  
During the flash procedure Windows recognizes a new printer with a different Plug&Play string. Just proceed with your downloading procedure even if error messages appear on the screen. Repeat the flashing procedure while ignoring the messages.  
\*) This is not recommended unless there is actual need for.

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<sup>5</sup> POC = Power On condition, Switching printer ON