

## Advanced Printer Driver 6

# Printer Specification for TM-m50II

---

### Specification

Describes the TM-m50II specifications of the APD6.



# Before Use

This chapter describes the information that users need to know before using the EPSON Advanced Printer Driver 6 ("APD6" below).

## *APD6 Packages*

APD6 consists of the following packages.

- **Printer driver package**  
These packages are prepared for each TM printer model. Installing the printer driver enables easy printing from software applications. The following manuals are provided.
  - **Install Manual**  
This describes APD6 installation, TM printer registration, and how to automatically install the printer driver.
  - **Printer Manual**  
This describes the APD6 setting procedures and functions.
  - **Printer Specification (this manual)**  
This describes the printer driver specifications for each TM printer model.
- **Status API package**  
This is a special package in APD6 for all TM printers. This must be installed when developing applications that control TM printers using Status API and when APD6 coexists with other Epson drivers. The following manuals are provided.
  - **Status API Manual**  
This describes how to use Status API to obtain the status of a TM printer from a software application. For the specifications of the APIs available for each TM printer model, see the "Printer Specification" manual contained in the printer driver package.
- **Sample program package**  
This is a special package in APD6 for all TM printers. This contains sample programs and sample code for developing applications for printing and control of TM printers. Although no manual is provided, it contains HTML files that describe the programs.

## Download

For customers in North America, go to the following web site:

<https://www.epson.com/support/>

For customers in other countries, go to the following web site:

<https://www.epson-biz.com/>

# Specification

This manual explains the TM-m50II specifications of the APD6.

## Printer Driver

| Item        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Resolution  | 180 x 180 DPI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Column Mode | Normal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Paper Size  | <ul style="list-style-type: none"><li>58 mm Roll Paper<ul style="list-style-type: none"><li>Paper Size58 mm x 297 mm<br/>(411 dot x 2104 dot)<br/>58 mm x 3276 mm<br/>(411 dot x 23215 dot)</li><li>Printing Width50.8 mm<br/>(360 dot)</li><li>Margin top: 0 mm<br/>bottom: 0 mm<br/>left: 3.4 mm (24 dot)<br/>right: 3.8 mm (27 dot)</li></ul></li><li>80 mm Roll Paper<ul style="list-style-type: none"><li>Paper Size80 mm x 297 mm<br/>(566 dot x 2104 dot)<br/>80 mm x 3276 mm<br/>(566 dot x 23215 dot)</li><li>Printing Width72.2 mm<br/>(512 dot)</li><li>Margin top: 0 mm<br/>bottom: 0 mm<br/>left: 3.7 mm (26 dot)<br/>right: 4.0 mm (28 dot)</li></ul></li></ul> |
|             | User Defined Paper Size<br>Width 50.8~210.0 mm, Height 25.4~3276.0 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|             | Logic paper size<br>A4 210 mm x 297 mm<br>LT. 8.5 in. x 11 in.<br>Postcard 100 mm x 148 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| Item                | Description                                                                                          |         |                      |                        |                                                                                                                                                                                                                                                                                                                                                                                      |                      |         |
|---------------------|------------------------------------------------------------------------------------------------------|---------|----------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------|
| Barcode Font        | Barcode Font Points determined. When specifying a value other than this, the Barcode is not printed. |         |                      |                        |                                                                                                                                                                                                                                                                                                                                                                                      |                      |         |
|                     | Barcode1~Barcode8                                                                                    |         |                      |                        | <Layout possible Barcode> <ul style="list-style-type: none"><li>• UPC-A</li><li>• UPC-E</li><li>• JAN13(EAN)</li><li>• JAN8(EAN)</li><li>• Code39</li><li>• ITF</li><li>• Codabar</li><li>• Code93</li><li>• Code128</li><li>• GS1-128</li><li>• GS1 DataBar Omni-directional</li><li>• GS1 DataBar Truncated</li><li>• GS1 DataBar Expanded</li><li>• GS1 DataBar Limited</li></ul> |                      |         |
| 2D-Code Font        | 2D-Code1~2D-Code8                                                                                    |         |                      |                        | <Layout possible 2D-Code> <ul style="list-style-type: none"><li>• PDF417</li><li>• QR Code</li><li>• MaxiCode</li><li>• GS1 DataBar Stacked</li><li>• GS1 DataBar Stacked Omni-directional</li><li>• GS1 DataBar Expanded Stacked</li><li>• Aztec Code</li><li>• DataMatrix</li></ul>                                                                                                |                      |         |
| Device Font         | <ul style="list-style-type: none"><li>• Font size is different depending on each font.</li></ul>     |         |                      |                        |                                                                                                                                                                                                                                                                                                                                                                                      |                      |         |
|                     | FontA11                                                                                              | FontA12 | FontA21              | FontA22                | FontA24                                                                                                                                                                                                                                                                                                                                                                              | FontA42              | FontA44 |
|                     | FontB11                                                                                              | FontB12 | FontB21              | FontB22                | FontB24                                                                                                                                                                                                                                                                                                                                                                              | FontB42              | FontB44 |
|                     | For Simplified Chinese model                                                                         |         |                      |                        |                                                                                                                                                                                                                                                                                                                                                                                      |                      |         |
|                     | Chinese18030-11                                                                                      |         | Chinese18030-12      |                        | Chinese18030-24                                                                                                                                                                                                                                                                                                                                                                      |                      |         |
|                     | Code Page                                                                                            |         |                      |                        |                                                                                                                                                                                                                                                                                                                                                                                      |                      |         |
|                     | PC437 (USA:Standard Europe)                                                                          |         |                      | Katakana               |                                                                                                                                                                                                                                                                                                                                                                                      | PC850 (Multilingual) |         |
|                     | PC860 (Portuguese)                                                                                   |         |                      | PC863(Canadian-French) |                                                                                                                                                                                                                                                                                                                                                                                      | PC865 (Nordic)       |         |
|                     | PC851 (Greek)                                                                                        |         |                      | PC853 (Turkish)        |                                                                                                                                                                                                                                                                                                                                                                                      | PC857 (Turkish)      |         |
|                     | PC737 (Greek)                                                                                        |         |                      | ISO8859-7 (Greek)      |                                                                                                                                                                                                                                                                                                                                                                                      | WPC1252              |         |
|                     | PC866 (Cyrillic #2)                                                                                  |         |                      | PC852 (Latin 2)        |                                                                                                                                                                                                                                                                                                                                                                                      | PC858 (Euro)         |         |
|                     | KU42 (Thai)                                                                                          |         |                      | TIS11 (Thai)           |                                                                                                                                                                                                                                                                                                                                                                                      | TIS18 (Thai)         |         |
|                     | TCVN-3 (Vietnamese)                                                                                  |         |                      | PC720 (Arabic)         |                                                                                                                                                                                                                                                                                                                                                                                      | WPC775 (Baltic Rim)  |         |
|                     | PC855 (Cyrillic)                                                                                     |         |                      | PC861 (Icelandic)      |                                                                                                                                                                                                                                                                                                                                                                                      | PC862 (Hebrew)       |         |
|                     | PC864 (Arabic)                                                                                       |         |                      | PC869 (Greek)          |                                                                                                                                                                                                                                                                                                                                                                                      | ISO8859-2 (Latin2)   |         |
| ISO8859-15 (Latin9) |                                                                                                      |         | PC1098 (Farsi)       |                        | PC1118 (Lithuanian)                                                                                                                                                                                                                                                                                                                                                                  |                      |         |
| PC1119 (Lithuanian) |                                                                                                      |         | PC1125 (Ukrainian)   |                        | WPC1250                                                                                                                                                                                                                                                                                                                                                                              |                      |         |
| WPC1251             |                                                                                                      |         | WPC1253              |                        | WPC1254                                                                                                                                                                                                                                                                                                                                                                              |                      |         |
| WPC1255             |                                                                                                      |         | WPC1256              |                        | WPC1257                                                                                                                                                                                                                                                                                                                                                                              |                      |         |
| WPC1258             |                                                                                                      |         | KZ-1048 (Kazakhstan) |                        |                                                                                                                                                                                                                                                                                                                                                                                      |                      |         |

| Item                  | Description                                                                                                                                                                                                                                                                      |                                |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <b>Control Font</b>   | Font Name: control, Point: 1 <ul style="list-style-type: none"> <li>• No operations for characters other than those mentioned above.</li> <li>• Prohibited when rotation is selected.</li> </ul>                                                                                 |                                |
|                       | Char                                                                                                                                                                                                                                                                             | Function                       |
|                       | 5                                                                                                                                                                                                                                                                                | Transmits HT                   |
|                       | 6                                                                                                                                                                                                                                                                                | Transmits LF                   |
|                       | 7                                                                                                                                                                                                                                                                                | Transmits CR                   |
|                       | a                                                                                                                                                                                                                                                                                | Open Drawer 5pin (50 ms)       |
|                       | b                                                                                                                                                                                                                                                                                | Open Drawer 5pin (100 ms)      |
|                       | c                                                                                                                                                                                                                                                                                | Open Drawer 5pin (150 ms)      |
|                       | d                                                                                                                                                                                                                                                                                | Open Drawer 5pin (200 ms)      |
|                       | e                                                                                                                                                                                                                                                                                | Open Drawer 5pin (250 ms)      |
|                       | g                                                                                                                                                                                                                                                                                | No paper feeding + Partial cut |
|                       | h                                                                                                                                                                                                                                                                                | NV graphics 0 printing (48,48) |
|                       | i                                                                                                                                                                                                                                                                                | NV graphics 1 printing (48,49) |
|                       | j                                                                                                                                                                                                                                                                                | NV graphics 2 printing (48,50) |
|                       | k                                                                                                                                                                                                                                                                                | NV graphics 3 printing (48,51) |
|                       | l                                                                                                                                                                                                                                                                                | NV graphics 4 printing (48,52) |
|                       | w                                                                                                                                                                                                                                                                                | Position alignment left        |
|                       | x                                                                                                                                                                                                                                                                                | Position alignment center      |
|                       | y                                                                                                                                                                                                                                                                                | Position alignment right       |
|                       | A                                                                                                                                                                                                                                                                                | Open Drawer 2pin (50 ms)       |
|                       | B                                                                                                                                                                                                                                                                                | Open Drawer 2pin (100 ms)      |
|                       | C                                                                                                                                                                                                                                                                                | Open Drawer 2pin (150 ms)      |
|                       | D                                                                                                                                                                                                                                                                                | Open Drawer 2pin (200 ms)      |
|                       | E                                                                                                                                                                                                                                                                                | Open Drawer 2pin (250 ms)      |
|                       | P                                                                                                                                                                                                                                                                                | Paper feeding + Partial cut    |
| <b>Control A Font</b> | Font Name: controlA, Point: 1 <ul style="list-style-type: none"> <li>• Characters defined by ControlA Font Character Translation Table.</li> <li>• No operations for characters not defined. No printing for spaces.</li> <li>• Prohibited when rotation is selected.</li> </ul> |                                |

# Status API

## Supported API

### Win32

| Status API                | Description                                                                                                                                                                                                                                                                                         |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BiOpenMonPrinter          | Calls the specified printer to use Status API.                                                                                                                                                                                                                                                      |
| BiCloseMonPrinter         | Closes Status API.                                                                                                                                                                                                                                                                                  |
| BiLockPrinter             | Occupies TM printer.<br>While occupied, the printer accepts no API from other processes.                                                                                                                                                                                                            |
| BiUnlockPrinter           | Cancels BiLockPrinter.                                                                                                                                                                                                                                                                              |
| BiGetStatus               | Acquires the ASB status from Status API when required by the application.                                                                                                                                                                                                                           |
| BiSetStatusBackFunction   | Provides notification regarding the call of the callback function notifying the application when the ASB status of Status API changes.                                                                                                                                                              |
| BiSetStatusBackFunctionEx | Provides notification regarding the call of the callback function notifying the application when the ASB status of Status API changes. Also acquires the port number.                                                                                                                               |
| BiCancelStatusBack        | Cancels the auto status notification function.                                                                                                                                                                                                                                                      |
| BiGetType                 | Acquires the TM printer information.                                                                                                                                                                                                                                                                |
| BiGetPrnCapability        | Acquires printer information, i.e. firmware, etc.                                                                                                                                                                                                                                                   |
| BiOpenDrawer              | Opens the drawer.                                                                                                                                                                                                                                                                                   |
| BiResetPrinter            | Reset the TM Printer.<br>TM printers occupied by BiLockPrinter, and the serial interface/ <i>Bluetooth</i> <sup>®</sup> interface models cannot be reset.                                                                                                                                           |
| BiForceResetPrinter       | Reset the TM Printer.<br>The TM printer occupied by the BiLockPrinter can be also reset, but the serial interface/ <i>Bluetooth</i> <sup>®</sup> interface models cannot be reset.                                                                                                                  |
| BiPowerOff                | Sets power-off or standby mode.<br>The following functions are available for TM printers. <ul style="list-style-type: none"> <li>• Stores the maintenance counter value.</li> <li>• Places the interface in BUSY state.</li> <li>• Places the TM printer in standby mode with power off.</li> </ul> |
| BiDirectIOEx              | Can send and receive the ESC/POS commands. Does not add the ASB suppress command.                                                                                                                                                                                                                   |

**.NET**

| Status API        | Description                                                                                                                                                                        |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <Method>          |                                                                                                                                                                                    |
| OpenMonPrinter    | Calls the specified printer to use Status API.                                                                                                                                     |
| CloseMonPrinter   | Closes Status API.                                                                                                                                                                 |
| LockPrinter       | Occupies TM printer.<br>While occupied, the printer accepts no API from other processes.                                                                                           |
| UnlockPrinter     | Cancels LockPrinter.                                                                                                                                                               |
| SetStatusBack     | Start the ASB status notification event.                                                                                                                                           |
| CancelStatusBack  | Stop the ASB status notification event.                                                                                                                                            |
| GetType           | Acquires the TM printer information.                                                                                                                                               |
| GetPrnCapability  | Acquires printer information, i.e. firmware, etc.                                                                                                                                  |
| OpenDrawer        | Opens the drawer.                                                                                                                                                                  |
| ResetPrinter      | Reset the TM Printer.<br>TM printers occupied by BiLockPrinter, and the serial interface/ <i>Bluetooth</i> <sup>®</sup> interface models cannot be reset.                          |
| ForceResetPrinter | Reset the TM Printer.<br>The TM printer occupied by the BiLockPrinter can be also reset, but the serial interface/ <i>Bluetooth</i> <sup>®</sup> interface models cannot be reset. |
| PowerOff          | Sets power-off or standby mode.                                                                                                                                                    |
| DirectIOEx        | Can send and receive the ESC/POS commands. Does not add the ASB suppress command.                                                                                                  |
| <Property>        |                                                                                                                                                                                    |
| IsValid           | Acquires the open status of the printer.                                                                                                                                           |
| LastError         | Acquires the error code of the last executed API.                                                                                                                                  |
| Status            | Acquires the current ASB status.                                                                                                                                                   |
| <Event>           |                                                                                                                                                                                    |
| StatusCallback    | Event that handles ASB status notification.                                                                                                                                        |
| StatusCallbackEx  | Event that handles ASB status and port number notification.                                                                                                                        |

## ASB Status



### NOTE

For *Bluetooth*® interface, "ASB\_NO\_RESPONSE" is not returned until approximately 20 seconds after the printer is turned off. If the printer is turned back on during that time, it will not print. Also, sent print jobs will be deleted.

| Macro Definitions    | ON/OFF | Value      | Status                                                 |
|----------------------|--------|------------|--------------------------------------------------------|
| ASB_NO_RESPONSE      | ON     | 0x00000001 | No printer response                                    |
|                      | OFF    | 0x00000000 | Printer response                                       |
| ASB_PRINT_SUCCESS    | ON     | 0x00000002 | Notifies that printing has completed successfully.     |
|                      | OFF    | 0x00000000 | -                                                      |
| ASB_DRAWER_KICK      | ON     | 0x00000004 | Status of the drawer kick number 3 connector pin = "H" |
|                      | OFF    | 0x00000000 | Status of the drawer kick number 3 connector pin = "L" |
| ASB_OFF_LINE         | ON     | 0x00000008 | Offline status                                         |
|                      | OFF    | 0x00000000 | Online status                                          |
| ASB_COVER_OPEN       | ON     | 0x00000020 | Cover is open                                          |
|                      | OFF    | 0x00000000 | Cover is closed                                        |
| ASB_PAPER_FEED       | ON     | 0x00000040 | Paper feed switch is feeding paper                     |
|                      | OFF    | 0x00000000 | Paper feed switch is not feeding paper                 |
| ASB_WAIT_ON_LINE     | ON     | 0x00000100 | Waiting for online recovery                            |
|                      | OFF    | 0x00000000 | Not waiting for online recovery                        |
| ASB_PANEL_SWITCH     | ON     | 0x00000200 | Switch off                                             |
|                      | OFF    | 0x00000000 | Switch on                                              |
| ASB_RECOVER_ERR      | ON     | 0x00000400 | Recoverable error                                      |
|                      | OFF    | 0x00000000 | No recoverable error                                   |
| ASB_AUTOCUTTER_ERR   | ON     | 0x00000800 | Auto-cutter error has occurred                         |
|                      | OFF    | 0x00000000 | Auto-cutter error has not occurred                     |
| ASB_UNRECOVER_ERR    | ON     | 0x00002000 | Unrecoverable error generated                          |
|                      | OFF    | 0x00000000 | Unrecoverable error not generated                      |
| ASB_AUTORECOVER_ERR  | ON     | 0x00004000 | Auto recovery error generated                          |
|                      | OFF    | 0x00000000 | Auto recovery error not generated                      |
| ASB_RECEIPT_NEAR_END | ON     | 0x00020000 | No paper in the roll paper near end detector           |
|                      | OFF    | 0x00000000 | Paper in the roll paper near end detector              |

| Macro Definitions      | ON/OFF | Value      | Status                                  |
|------------------------|--------|------------|-----------------------------------------|
| ASB_RECEIPT_END        | ON     | 0x00080000 | No paper in the roll paper end detector |
|                        | OFF    | 0x00000000 | Paper in the roll paper end detector    |
| ASB_SPOOLER_IS_STOPPED | ON     | 0x80000000 | Stop the spooler                        |
|                        | OFF    | 0x00000000 | Operation the spooler                   |

## Type ID

The typeID that can be acquired with BiGetType are listed below.

| Parameter | Item |                                                                     | Value  |
|-----------|------|---------------------------------------------------------------------|--------|
|           | Bit  | Description                                                         |        |
| TypeID    | 0    | Multi byte code character response<br>0: No 1: Yes                  | 0 or 1 |
|           | 1    | Auto-cutter 1: Yes                                                  | 1      |
|           | 2    | Customer display (DM-D) connection<br>0: Not connected 1: Connected | 0 or 1 |
|           | 3    | -                                                                   | -      |
|           | 4    | Fixed                                                               | 0      |
|           | 5    | -                                                                   | -      |
|           | 6    | -                                                                   | -      |
|           | 7    | Fixed                                                               | 0      |

## Printer ID

The prnID that can be acquired with BiGetPrnCapability are listed below.

| PrnID | Item                                  | Value                                     |
|-------|---------------------------------------|-------------------------------------------|
| 65    | TM printer firmware version           | Depending on the firmware version         |
| 66    | Name of the manufacturer              | "EPSON"                                   |
| 67    | Name of the TM printer model          | "TM-m50II" *                              |
| 68    | Serial number of the TM printer       | Depending on the serial number            |
| 69    | Multilingual fonts for the TM printer | Simplified Chinese model: "CHINA GB18030" |

\* Varies according to product specifications.

## Cautions

- (1) No part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of Seiko Epson Corporation.
- (2) The contents of this document are subject to change without notice.
- (3) While every precaution has been taken in the preparation of this document, Seiko Epson Corporation assumes no responsibility for errors or omissions.
- (4) Neither is any liability assumed for damages resulting from the use of the information contained herein.
- (5) Neither Seiko Epson Corporation nor its affiliates shall be liable to the purchaser of this product or third parties for damages, losses, costs, or expenses incurred by the purchaser or third parties as a result of: accident, misuse, or abuse of this product or unauthorized modifications, repairs, or alterations to this product, or (excluding the U.S.) failure to strictly comply with Seiko Epson Corporation's operating and maintenance instructions.
- (6) Seiko Epson Corporation shall not be liable against any damages or problems arising from the use of any options or any consumable products other than those designated as Original EPSON Products or EPSON Approved Products by Seiko Epson Corporation.

## Trademarks

EPSON is a registered trademark of Seiko Epson Corporation.

Exceed Your Vision and ESC/POS are registered trademarks or trademarks of Seiko Epson Corporation.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Seiko Epson Corporation is under license.

All other trademarks are the property of their respective owners and used for identification purpose only.

### ESC/POS<sup>®</sup> Command System

EPSON ESC/POS is a proprietary POS printer command system that includes patented or patent-pending commands. ESC/POS is compatible with most EPSON POS printers and displays.

ESC/POS is designed to reduce the processing load on the host computer in POS environments. It comprises a set of highly functional and efficient commands and also offers the flexibility to easily make future upgrades.

©Seiko Epson Corporation 2023.