

## Advanced Printer Driver 6

# Printer Specification for TM-P80II

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### Specification

Describes the TM-P80II 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:

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# Specification

This manual explains the TM-P80II specifications of the APD6.

## Printer Driver

Item	Description
Resolution	203 x 203 DPI
Column Mode	Normal
Paper Size	<ul style="list-style-type: none"><li>80 mm Roll Paper<ul style="list-style-type: none"><li>Paper Size80 mm x 297 mm (639 dot x 2373 dot) 80 mm x 3276 mm (639 dot x 26182 dot)</li><li>Printing Width72.1 mm (576 dot)</li><li>Margin<ul style="list-style-type: none"><li>top: 0 mm</li><li>bottom: 0 mm</li><li>left: 3.7 mm (30 dot)</li><li>right: 4.1 mm (33 dot)</li></ul></li></ul></li><li>58 mm Roll Paper<ul style="list-style-type: none"><li>Paper Size58 mm x 297 mm (463 dot x 2373 dot) 58 mm x 3276 mm (463 dot x 26182 dot)</li><li>Printing Width48.0 mm (384 dot)</li><li>Margin<ul style="list-style-type: none"><li>top: 0 mm</li><li>bottom: 0 mm</li><li>left: 4.8 mm (38 dot)</li><li>right: 5.1 mm (41 dot)</li></ul></li></ul></li></ul>
	User Defined Paper Size
	Width 52.6~210.0 mm, Height 25.4~3276.0 mm
	Logic paper size
	A4 210 mm x 297 mm LT. 8.5 in. x 11 in. Postcard 100 mm x 148 mm

Item	Description	
<b>Barcode Font</b>	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>• Code128 auto</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>
<b>2D-Code Font</b>	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>

Item	Description						
Device Font	• Font size is different depending on each font.						
	FontA11	FontA12	FontA21	FontA22	FontA24	FontA42	FontA44
	FontB11	FontB12	FontB21	FontB22	FontB24	FontB42	FontB44
	For Traditional Chinese model						
	ChineseBig5-11		ChineseBig5-12		ChineseBig5-21		ChineseBig5-22
	ChineseBig5-24		ChineseBig5-42		ChineseBig5-44		
	For South Asia model						
	FontC11	FontC12	FontC21	FontC22	FontC24	FontC42	FontC44
	FontD11	FontD12	FontD21	FontD22	FontD24	FontD42	FontD44
	For Korean model						
	KoreanA11	KoreanA12	KoreanA21	KoreanA22	KoreanA24	KoreanA42	KoreanA44
	KoreanB11	KoreanB12	KoreanB21	KoreanB22	KoreanB24	KoreanB42	KoreanB44
	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
	g *	No paper feed + 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
	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>	

\* Only for models equipped with auto-cutter.

# 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. 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.
BiGetBatteryStatus	Acquires the battery status of the TM printer.
BiSetBatteryStatusBackFunctionEx	Provides notification of a callback function call that automatically notifies the application when the battery status changes. Also acquires the port number.
BiCancelBatteryStatusBack	Cancels the battery status notification function.
BiAutoPowerOffTime	Acquires and sets the time remaining until the battery-powered printer runs out of power.
BiGetType	Acquires the TM printer information.
BiGetPrnCapability	Acquires printer information, i.e. firmware, etc.
BiResetPrinter	Reset the TM Printer. TM printers occupied by BiLockPrinter and serial interface TM printers cannot be reset.
BiForceResetPrinter	Reset the TM Printer. The TM printer occupied by the BiLockPrinter can be also reset.
BiPowerOff	Sets power-off or standby mode. 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. 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.
GetBatteryStatus	Acquires the battery status of the TM printer.
SetBatteryStatusBack	Starts the battery status notification event.
CancelBatteryStatusBack	Stops the battery status notification event.
GetType	Acquires the TM printer information.
GetPrnCapability	Acquires printer information, i.e. firmware, etc.
ResetPrinter	Reset the TM Printer. TM printers occupied by LockPrinter cannot be reset.
ForceResetPrinter	Reset the TM Printer. TM printers occupied by LockPrinter can 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.
AutoPowerOffTime	Acquires the time remaining until the battery-powered printer runs out of power.
<Event>	
StatusCallback	Event that handles ASB status notification.
StatusCallbackEx	Event that handles ASB status and port number notification.
BatteryStatusCallbackEx	This event handles the battery status 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_BATTERY_OFFLINE	ON	0x00000004	Offline due to battery level
	OFF	0x00000000	Not offline due to battery level
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 * <sup>1</sup>	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 * <sup>2</sup>	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_END	ON	0x00080000	No paper in the roll paper end detector
	OFF	0x00000000	Paper in the roll paper end detector

Macro Definitions	ON/OFF	Value	Status
ASB_SPOOLER_IS_STOPPED	ON	0x80000000	Stop the spooler
	OFF	0x00000000	Operation the spooler

\*1 ASB status detected during macro execution.

\*2 No notification provided for models without auto-cutter.

## 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 0: No 1: Yes	0 or 1
	1	Auto-cutter 0: Not equipped 1: Equipped	0 or 1
	2	-	-
	3	-	-
	4	Fixed	0
	5	-	-
	6	-	-
	7	Fixed	0

## Printer ID

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

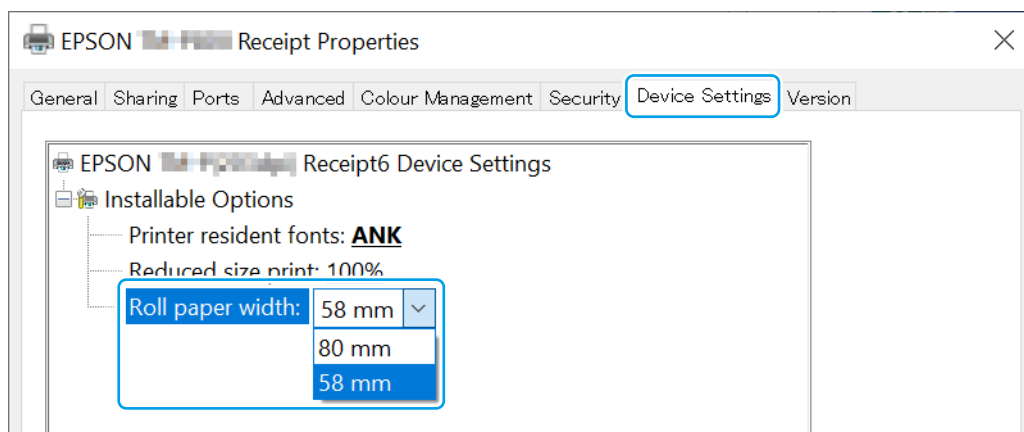
PrnID	Item	Value
65	TM printer firmware version	Depending on the firmware version
66	Name of the manufacturer	"EPSON"
67	Name of the TM printer model	"TM-P80II"
68	Serial number of the TM printer	Depending on the serial number
69	Multilingual fonts for the TM printer	Traditional Chinese model: "TAIWAN BIG-5" Korean model: "KOREA C-5601C" South Asia model: "THAI 1 PASS"

# Printer Setup

## Paper Width Setting

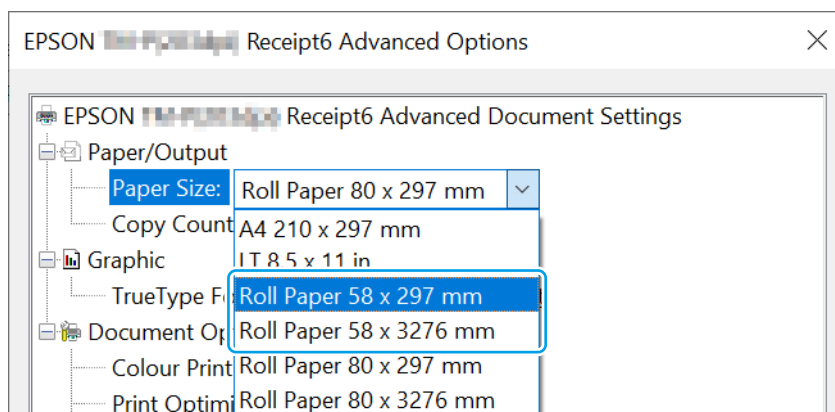
This printer is available in 80 mm and 58 mm width specifications. For 58 mm width specifications, set the APD6 paper width as follows:

- 1** Select [Start] - [Settings] - [Devices] - [Printers and Scanners].  
Printers and devices registered in the computer are displayed.
- 2** Select the TM printer and click [Manage] - [Printer Properties].  
The [Properties] screen appears.
- 3** Click on the [Device Settings] tab.
- 4** Select 58 mm for the roll paper width.



- 5** Click [OK].
- 6** Next, change the paper to a 58 mm roll. Click on the [General] tab and then [Preferences].  
The print settings screen appears.
- 7** Click on [Advanced].  
The Advanced Options screen appears.

- 8** From Paper Size, select 58 mm wide paper. After selecting, click [OK] to close the screen.



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