

Advanced Printer Driver 6

Printer Specification for TM-m50

Specification

Describes the TM-m50 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, when monitoring a printer's status in real time, 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.

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

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<https://epson.sn>

Specification

This manual explains the TM-m50 specifications of the APD6.

Printer Driver

Item	Description
Resolution	180 x 180 DPI
Column Mode	Normal
Paper Size	58 mm Roll Paper - Paper Size58 mm x 297 mm (411 dot x 2104 dot) 58 mm x 3276 mm (411 dot x 23215 dot) - Printing Width50.8 mm (360 dot) - Margin top: 0 mm bottom: 0 mm left: 3.4 mm (24 dot) right: 3.8 mm (27 dot) 80 mm Roll Paper - Paper Size80 mm x 297 mm (566 dot x 2104 dot) 80 mm x 3276 mm (566 dot x 23215 dot) - Printing Width72.2 mm (512 dot) - Margin top: 0 mm bottom: 0 mm left: 3.7 mm (26 dot) right: 4.0 mm (28 dot)
	User Defined Paper Size Width 50.8~210.0 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						
Barcode Font	Barcode Font Points determined. When specifying a value other than this, the Barcode is not printed.						
	Barcode1~Barcode8				<Layout possible Barcode> • UPC-A • UPC-E • JAN13(EAN) • JAN8(EAN) • Code39 • ITF • Codabar • Code93 • Code128 • GS1-128 • GS1 DataBar Omni-directional • GS1 DataBar Truncated • GS1 DataBar Expanded • GS1 DataBar Limited		
2D-Code Font	2D-Code1~2D-Code8				<Layout possible 2D-Code> • PDF417 • QR Code • MaxiCode • GS1 DataBar Stacked • GS1 DataBar Stacked Omni-directional • GS1 DataBar Expanded Stacked • Aztec Code • DataMatrix		
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 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	
Control Font	Font Name: control, Point: 1 • No operations for characters other than those mentioned above. • Prohibited when rotation is selected.	
	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
Control A Font	Font Name: controlA, Point: 1 • Characters defined by ControlA Font Character Translation Table. • No operations for characters not defined. No printing for spaces. • Prohibited when rotation is selected.	

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.
BiGetType	Acquires the TM printer information.
BiGetPrnCapability	Acquires printer information, i.e. firmware, etc.
BiOpenDrawer	Opens the drawer.
BiResetPrinter	Reset the TM Printer. TM printers occupied by BiLockPrinter and serial/ <i>Bluetooth®</i> interface TM printers cannot be reset.
BiForceResetPrinter	Reset the TM Printer. The TM printer occupied by the BiLockPrinter can be also reset. Bluetooth interface TM printers cannot be reset.
BiPowerOff	Sets power-off or standby mode. The following functions are available for TM printers. • Stores the maintenance counter value. • Places the interface in BUSY state. • Places the TM printer in standby mode with power off.
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.
GetType	Acquires the TM printer information.
GetPrnCapability	Acquires printer information, i.e. firmware, etc.
OpenDrawer	Opens the drawer.
ResetPrinter	Reset the TM Printer. TM printers occupied by LockPrinter and serial/ Bluetooth interface TM printers cannot be reset.
ForceResetPrinter	Reset the TM Printer. TM printers occupied by LockPrinter can be reset. Bluetooth interface TM printers 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 a Bluetooth interface, "ASB_NO_RESPONSE" will not be returned until approximately 20 seconds after the printer is turned off. If you turn the printer back on during that time, it will not print. Also, any print job that has been sent 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	Panel switch is ON
	OFF	0x00000000	Panel switch is OFF
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
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

* ASB status detected during macro execution.

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 1: Yes	1
	2	Customer display (DM-D) connection 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-m50"
68	Serial number of the TM printer	Depending on the serial number
69	Multilingual fonts for the TM printer	Simplified Chinese model: "CHINA GB18030"

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ESC/POS 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.

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