

Advanced Printer Driver 6

Printer Specification for TM-P20II

Specification

Describes the TM-P20II 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.

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Specification

This manual explains the TM-P20II specifications of the APD6.

Printer Driver

Item	Description	
Resolution	203 x 203 DPI	
Column Mode	Normal	
Paper Size	<ul style="list-style-type: none"> 58 mm Roll Paper <div> Paper Size 58 mm x 297 mm (463 dot x 2373 dot) 58 mm x 3276 mm (463 dot x 26182 dot) Printing Width 48.0 mm (384 dot) Margin top: 0 mm bottom: 0 mm left: 4.8 mm (38 dot) right: 5.1 mm (41 dot) </div> 	
	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	
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"> • UPC-A • UPC-E • JAN13(EAN) • JAN8(EAN) • Code39 • ITF • Codabar • Code93 • Code128 • Code128 auto • GS1-128 • GS1 DataBar Omni-directional • GS1 DataBar Truncated • GS1 DataBar Expanded • GS1 DataBar Limited

Item	Description							
2D-Code Font	2D-Code1~2D-Code8				<Layout possible 2D-Code>			
					<ul style="list-style-type: none">• PDF417• QR Code• MaxiCode• GS1 DataBar Stacked• GS1 DataBar Stacked Omni-directional• GS1 DataBar Expanded Stacked• Aztec Code• DataMatrix			
Device Font	<ul style="list-style-type: none">• Font size is different depending on each font.							
	FontA11	FontA12	FontA21	FontA22	FontA24	FontA42	FontA44	
	FontB11	FontB12	FontB21	FontB22	FontB24	FontB42	FontB44	
	FontC11	FontC12	FontC21	FontC22	FontC24	FontC42	FontC44	
	FontD11	FontD12	FontD21	FontD22	FontD24	FontD42	FontD44	
	FontE11	FontE12	FontE21	FontE22	FontE24	FontE42	FontE44	
	For Traditional Chinese model							
	ChineseBig5-11		ChineseBig5-12		ChineseBig5-21		ChineseBig5-22	
	ChineseBig5-24		ChineseBig5-42		ChineseBig5-44			
	For South Asia model							
	FontF11	FontF12	FontF21	FontF22	FontF24	FontF42	FontF44	
	FontG11	FontG12	FontG21	FontG22	FontG24	FontG42	FontG44	
	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	
Control Font	Font Name: control, Point: 1 <ul style="list-style-type: none"> 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
	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
Control A Font	Font Name: controlA, Point: 1 <ul style="list-style-type: none"> 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.
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"> • 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.
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 *	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_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
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 0: Not equipped	0
	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-P20II"
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"

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