

Advanced Printer Driver 6

Printer Specification for TM-U220II

Specification

Describes the TM-U220II 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-U220II specifications of the APD6.

Printer Driver

Item	Description
Resolution	160 x 144 DPI 160 x 72 DPI 80 x 72 DPI
Column Mode	Normal
Paper Size	160 x 144 DPI • 76 mm Roll Paper Paper Size 75.9 mm x 267.2 mm (478 dot x 1683 dot) Printing Width 63.5 mm (400 dot) Margin top: 0 mm bottom: 0 mm left: 6.8 mm (43 dot) right: 5.6 mm (35 dot) • 70 mm Roll Paper Paper Size 69.9 mm x 267.2 mm (440 dot x 1683 dot) Printing Width 57.2 mm (360 dot) Margin top: 0 mm bottom: 0 mm left: 6.8 mm (43 dot) right: 5.9 mm (37 dot) • 58 mm Roll Paper Paper Size 58 mm x 267.2 mm (365 dot x 1683 dot) Printing Width 47.6 mm (300 dot) Margin top: 0 mm bottom: 0 mm left: 4.2 mm (27 dot) right: 6.0 mm (38 dot)

Item	Description
Paper Size	160 x 72 DPI
	• 76 mm Roll Paper
	Paper Size 75.9 mm x 133.6 mm (478 dot x 841 dot)
	Printing Width 63.5 mm (400 dot)
	Margin top: 0 mm bottom: 0 mm left: 6.8 mm (43 dot) right: 5.6 mm (35 dot)
	• 70 mm Roll Paper
	Paper Size 69.9 mm x 133.6 mm (440 dot x 841 dot)
	Printing Width 57.2 mm (360 dot)
	Margin top: 0 mm bottom: 0 mm left: 6.8 mm (43 dot) right: 5.9 mm (37 dot)
	• 58 mm Roll Paper
	Paper Size 58 mm x 133.6 mm (365 dot x 841 dot)
	Printing Width 47.6 mm (300 dot)
	Margin top: 0 mm bottom: 0 mm left: 4.2 mm (27 dot) right: 6.0 mm (38 dot)

Item	Description
Paper Size	80 x 72 DPI <ul style="list-style-type: none"> 76 mm Roll Paper <div> Paper Size 75.9 mm x 267.1 mm (239 dot x 841 dot) Printing Width 63.5 mm (200 dot) Margin top: 0 mm bottom: 0 mm left: 6.8 mm (22 dot) right: 5.4 mm (17 dot) </div> 70 mm Roll Paper <div> Paper Size 69.9 mm x 267.1 mm (220 dot x 841 dot) Printing Width 57.2 mm (180 dot) Margin top: 0 mm bottom: 0 mm left: 6.8 mm (22 dot) right: 5.7 mm (18 dot) </div> 58 mm Roll Paper <div> Paper Size 57.8 mm x 267.1 mm (182 dot x 841 dot) Printing Width 47.6 mm (150 dot) Margin top: 0 mm bottom: 0 mm left: 4.2 mm (14 dot) right: 5.7 mm (18 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 x 11 in Postcard 100 mm x 148 mm
Device Font	<ul style="list-style-type: none"> Font size is different depending on each font.
	FontA11 FontA12 FontA21 FontA22 FontB11 FontB12 FontB21 FontB22
	For Traditional Chinese model ChineseBig5-11 ChineseBig5-12 ChineseBig5-21 ChineseBig5-22
	Code Page PC437 (USA:Standard Europe) Katakana PC850 (Multilingual) PC860 (Portuguese) PC863(Canadian-French) PC865 (Nordic) WPC1252 PC866 (Cyrillic #2) PC852 (Latin 2) PC858 (Euro) KU42 (Thai) TIS11 (Thai) TIS18 (Thai) TCVN-3 (Vietnamese)

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
	0	Initial line feed amount setting
	5	Transmits HT
	6	Transmits LF
	7	Transmits CR
	8	1/16 line feed amount setting
	9	1/8 line feed amount setting
	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
	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)
	G	NV bit image number 1 in normal mode printing
	H	NV bit image number 2 in normal mode printing
	I	NV bit image number 3 in normal mode printing
	J	NV bit image number 4 in normal mode printing
	K	NV bit image number 5 in normal mode printing
	P	Paper feeding + Partial cut
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.
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 interface TM printers cannot be reset.
BiForceResetPrinter	Reset the TM Printer. The TM printer occupied by the BiLockPrinter can be also reset.
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 cannot be reset.
ForceResetPrinter	Reset the TM Printer. TM printers occupied by LockPrinter can be reset.
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

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_MECHANICAL_ERR	ON	0x00000400	Mechanical error has occurred
	OFF	0x00000000	Mechanical error has not occurred
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
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 0: No 1: Yes	0 or 1
	1	Auto-cutter 1: Yes	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-U220II"
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 3 PASS"

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