Ficha técnica

Epson

Modelos / familias

TM-U220II

Fuente del fabricante

TM-U220II Technical Reference Guide
https://files.support.epson.com/pdf/pos/bulk/tm-u220ii_trg_en_reva.pdf

Las páginas siguientes son un extracto técnico del documento oficial del fabricante.

1.4 Product Specifications Overview

Print method	serial impact dot matrix
Paper width	76 mm / 69.5 mm / 57.5 mm {3.00"/2.74"/2.26"}
Cut type	There are 2 types. The type can be changed. Partial cut (cutting with one point on left edge left uncut)
Character sets	95 alphanumeric, 48 international characters, Extended graphics: 128 × 12 pages. (15 tables for Japanese model) Multilingual character model supports printing with one of the following character sets: • Japanese Kanji (Two-pass printing font) (JIS X0208-1990): 6879 • Simplified Chinese (Two-pass printing font) (GB18030-2022 (Lv.2)): 28806 • Traditional Chinese (Two-pass printing font) (Big 5): 13494 • Korean (Two-pass printing font) (KS C5601 type): 8366 • Thai (Three-pass printing font) : 128 characters × 7 pages (133 character types)
Interface (compatible)	RS-232C / Bidirectional parallel Ethernet / USB
Buffer	Receive buffer: 20 KB* or 40 bytes (Selectable by using DIP switch 1-2) *May be 4 KB depending on the model.
	Non-volatile graphics data buffer: 128 KB
	User NV memory: 8 KB
Power supply	Power supplied by AC adapter Be sure to always use a specified AC adapter: AC adapter,C1 (model no.: M235B), PS-180 (model no.: M159E), or PS-190 (model no.: M368A)
Operating voltage	24 VDC±7%
Consumption current (at 24 V)	1.3 A
Power consumption* (except for drawer kick driving)	Operating:Mean: Alphanumeric model: Approximately 31 W Multilingual* model: Approximately 38 W Standby: Mean: Approximately 2.2 W *Average power obtained under our operating conditions. Differs depending on use conditions and model.
Temperature	During operation: 0 to 50°C {41 to 122°F}. (At 34°C {93°F} or higher, there are humidity restrictions; refer to "Environmental Conditions" (page 1-12)
Humidity	During operation:10 to 90% (no condensation) During storage:10 to 90% (no condensation; excludes paper and ribbon)
Weight (mass)	Type A: Approximately 2.7 kg {5.94 lb} Type B: Approximately 2.5 kg {5.5 lb} Type D: Approximately 2.3 kg {5.06 lb}

1.5 Printing and paper Specifications

Printing method:	Serial impact dot matrix
Head wire configuration:	9-pin serial configuration
Printing direction:	Bidirectional printing (logic seeking)
Print speed: *1	Approximately 4.7 lps (printing 40 columns per line at 16 cpi) Approximately 6.0 lps (printing 30 columns per line at 16 cpi, with 1/8" line spacing) (except data transmission and processing time)
Paper width:	76 mm / 69.5 mm / 57.5 mm {3.00"/2.74"/2.26"}
Printing width:	63.4 mm / 57 mm / 47.5 mm {2.50" / 2.24" / 1.87"} Dot positions depend on DIP switch setting. See the table "Dot width of Printable area" (page 1-6) for details.
Characters per line:	35 (font A), 40 (font B, default) (When using 76mm width paper)
Character spacing:	ANK: 3 half dots (default) or 2 half dots. Kanji: 2 half dots (default) or 0 half dots. Thai: 3 half dots (default) or 2 half dots. The spacing of ANK and Thai characters is selectable by DIP SW2-1. The spacing of Kanji characters is selectable by ESC/POS command.
Paper feed speed:	30 lps
Line spacing (default):	4.23 mm {1/6"}, programmable by control commands.
Number of characters:	95 alphanumeric, 48 international characters, Extended graphics: 128 × 12 pages. (15 tables for Japanese model) Multilingual specifications are equipped with one of the following. • Japanese Kanji (Two-pass printing font) (JIS X0208-1990): 6879 • Simplified Chinese (Two-pass printing font) (GB18030-2022 (Lv.2)): 28806 • Traditional Chinese (Two-pass printing font) (Big 5): 13494 • Korean Kanji (Two-pass printing font) (KS C5601 type): 8366 • Thai (Three-pass printing font): 128 characters 7 pages (133 character types)
Character structure:	Font A: 9 × 9 Font B: 7 × 9 Kanji: 16 × 16 (Font B is the default)

*1 This printer adjusts print speed when it prints graphic data, etc.

The dot width of the printable area depends on DIP switch setting and paper width as shown in the following table.

Dot width of Printable area

Paper width	DIP SW2-1 setting	
	ON	OFF
76 mm	385 half dots	400 half dots
69.5 mm	360 half dots	360 half dots
57.5 mm	297 half dots	300 half dots

Character Dimensions, Characters Per Inch, Characters Per line

Character configuration			Character dimensions (mm)	Dot spacing between characters	Paper width (mm) and Characters per line (cpl)			Characters per inch (cpi) (1 inch = 25.4 mm)
Horiz. x Vert.	Condition of DIP SW 2-1	Character type	W x H		76 mm	69.5 mm	57.5 mm	
7 x 9 (Font B) (default)	ON	ANK	1.2 x 3.1	2 half dots	42	40	33	17.8
		Graphic	1.6 x 3.1	0				
	OFF (default)	ANK	1.2 x 3.1	3 half dots	40	36	30	16
		Graphic	1.7 x 3.1	0				
9 x 9 (Font A)	ON	ANK	1.6 x 3.1	2 half dots	35	32	27	14.5
		Graphic	1.9 x 3.1	0				
	OFF (default)	ANK	1.6 x 3.1	3 half dots	33	30	25	13.3
		Graphic	2.0 x 3.1	0				
16 x 16 (Kanji font)	Regardless *	Kanji	2.7 x 2.7	2 half dots (default) *	22	20	16	8.9
				0 *	25	22	18	9.5
7 x 27 (Thai font)	ON	Thai character	1.2 x 9.5	2 half dots	42	40	33	17.8
	OFF (default)			3 half dots	40	36	30	16
9 x 27 (Thai font)	ON	Thai character	1.6 x 9.5	2 half dots	35	32	27	14.5
	OFF (default)			3 half dots	33	30	25	13.3

*: The dot spacing between Kanji character is selected by an ESC/POS command.

1.5.1 Autocutter (for Type A / B)

Cutting method: By separated-blade scissors

Cutting type: Partial cut (one point left uncut)

Note:
It is recommended to feed approximately 2.116 mm or more in advance before printing to prevent dot displacement after cutting.

1.5.2 Paper Roll Supply

Supply method: Drop-in method

Paper roll end detection: Detection method: Mechanical microswitch
Detection position: Positioned within the paper path for the roll paper; detects the end of the roll paper

Near-end detector: Detection method: Mechanical microswitch

Inner diameter of the roll paper core: 10.5 to 12.5 mm

Near-end adjustment: Adjusting screw

Remaining amount: Fixed position
#1 approximately 8 mm
#2 approximately 5 mm
(The adjusting screw has two positions.)
See"Adjusting Position of Roll Paper Near End Detector" (page 3-29).

1.5.2.1 Paper Specifications

Paper feeding method: Friction feed

Paper feed interval: Initial setting: Approximately 4.23 mm {1/6"}
Can be set in units of approximately 0.18 mm {1/144"} by ESC/POS command

Paper feed speed: 30 lps (approximately 4.99" /s)
(during continuous feeding) [lps: lines per second]

Roll paper width: 76 ± 0.5 mm (3" ± 0.02") / 69.5 ± 0.5 mm (2.74" ± 0.02") / 57.5 ± 0.5 mm (2.26" ± 0.02")

Maximum diameter: 83 mm (3.27")

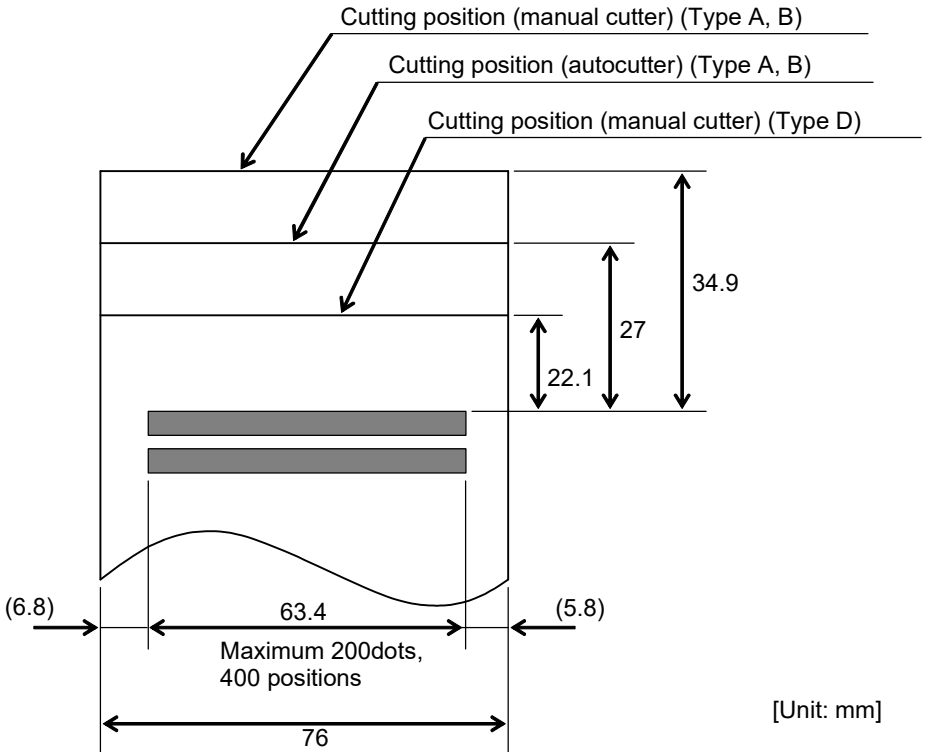
Core: When there is no near-end detector, always be sure to use roll paper that is not glued to the core.

Normal paper specifications: Paper thickness: 1 sheet: 0.06 to 0.085 mm {0.0024 to 0.0033"}
Weight: 52.3 to 64 g/m^2 {14 to 17 lb}
(45 to 55 kg/1000 sheets 1091 × 788 mm)

Carbon paper specifications: Number of copies: Original 1 sheet + one copy sheet
Thickness: 0.05 to 0.08 mm {0.002 to 0.0031"}
(thickness of one sheet);
Recommended paper:
Paper by Mitsubishi - Carbonless paper (blue)
Top sheets:
N40Hi (paper thickness: 0.06 mm {0.0024"}, mass: 47.2 g/m^2 {12.6 lb}
Bottom sheet
N60 (paper thickness: 0.08 mm {0.0031"}, mass: 68.0 g/m^2 {18 lb}

The copying capability is affected by the ambient temperature, and is guaranteed for the temperature ranges of 5 to 50°C {41 to 122°F}.

1.5.2.2 Printable Area



Printable area for 76mm width paper