Ficha técnica

Epson

Modelos / familias

TM-T20IV

Fuente del fabricante

TM-T20IV Technical Reference Guide
https://files.support.epson.com/pdf/pos/bulk/tm-t20iv_trg_en_reva.pdf

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

Appendix

Product Specifications

Printing method		Thermal line printing
Paper feed speed		Approx. 200 mm/s {approx. 7.88 in./s} (continuous paper feeding with the Feed button)
Cutting Method		Partial cut (cutting with one point at left uncut)
Interface	USB/Serial model	USB: USB (Type-B) Serial: RS-232 (25 pin)
	USB/Ethernet/Serial model	USB: USB (Type-B) Ethernet: 10BASE-T/100BASE-TX Serial: RS-232 (9 pin) Wireless LAN: Connects an optional Wireless LAN unit to the USB (Type-A) connector.
Buffers	Receive buffer	4 KB or 128 KB (Default: 4 KB))
	Downloaded buffer	Approx. 12 KB (both for user-defined characters and downloaded images)
	NV graphics data	256 KB
	Downloaded graphics data	208 KB
Barcode/two-dimensional symbol/ composite symbol printing		UPC-A, UPC-E, JAN 8 (EAN 8), JAN 13 (EAN 13), CODE 39, ITF, CODABAR (NW-7), CODE 93, CODE 128, CODE 128 auto, GS1-128, GS1 DataBar Omnidirectional, GS1 DataBar Truncated, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Limited, GS1 DataBar Expanded, GS1 DataBar Expanded Stacked, PDF417, QR CODE, MaxiCode, Composite Symbology, Aztec Code, DataMatrix
Drawer kick connector drive function		2 drives
Power supply		Power supplied by the specified AC adapter
AC power consumption (100 to 230V/50 to 60 Hz)*1	Operating	Approx. 27.2 W
	Standby	Approx. 0.96 W
Life*2	Mechanism	15 million lines
	Thermal head	150 km {93.2 miles}
	Autocutter	2,000,000 cuts
MTBF*3		360,000 hours
MCBF*4		60,000,000 lines
Temperature/humidity		Operating: 5 to 45°C {41 to 113°F}, 10 to 90% RH Storage: -10 to 50°C {14 to 122°F}, 10 to 90% RH
Overall dimensions (W × D × H)		146 × 199 × 146 mm {5.75 × 7.84 × 5.75 in.}
Weight		Approx. 1.7 kg {3.75 lb} (roll paper excluded)

*1: According to our operation conditions. It may differ depending on the usage conditions and product model.

*2: Indicates the point at which the wear-out failure period starts.

*3: Indicates the mean time between failures during the random failure period.
*4: Indicates the overall mean time between failures, including wear-out and random failures, before the life is reached.

Printing Specifications

			80 mm {3.15 in.} wide paper	58 mm {2.28 in.} wide paper
Printing method			Thermal line printing	
Paper feed direction			Unidirectional with friction feed	
Dot density			203 × 203 dpi	
Printing width	Standard mode (default setting)		72.0 mm {2.83 in.}, 576 dots	52.5 mm {2.07 in.}, 420 dots
	42 column mode		68.3 mm {2.69 in.}, 546 dots	47.3 mm {1.86 in.}, 378 dots
Characters per line	Standard mode (default setting)	Font A	48	35
		Font B	64	46
	42 column mode	Font A	42	42
		Font B	60	31
Character spacing	Standard mode (default setting)	Font A	0.25 mm {0.0098 in.}, 2 dots	
		Font B	0.25 mm {0.0098 in.}, 2 dots	
	42 column mode	Font A	0.38 mm {0.015 in.}, 3 dots	0.25 mm {0.0098 in.}, 2 dots
		Font B	0.25 mm {0.0098 in.}, 2 dots	0.25 mm {0.0098 in.}, 2 dots
Line spacing			3.75 mm {0.15 in.} (default setting, programmable by command)	
Maximum print speed*			250 mm/s {9.84 in./s}*	

dpi: dots per inch
*: The maximum is 100 mm/s {3.94 in./s} when printing ladder barcodes or two-dimensional symbols.

> **NOTE** Printing speed may be slower depending on the data transfer rate and other factors. Also, the maximum print speed is the speed when the printer prints at standard print density at 24 V in an environment of 25°C {77°F}.

Character Specifications

			80 mm {3.15 in.} wide paper	58 mm {2.28 in.} wide paper
Number of characters			Single-byte code characters • Alphanumeric characters: 95 characters • Extended graphics: 128 characters × 43 pages (including user-defined page) • International characters: 18 sets	
Character structure (W x H dots)	Standard mode (default setting)	Font A	12 × 24 (Right-side dot space: 2)	
		Font B	9 × 17 (Right-side dot space: 2)	
	42 column mode	Font A	13 × 24 (Right-side dot space: 3)	9 × 17 (Right-side dot space: 2)
		Font B	9 × 17 (Right-side dot space: 2)	12 × 24 (Right-side dot space: 2)
Character size*	Standard mode (default setting)	Font A	1.25 × 3.00 mm {0.05 × 0.12 in.}	
		Font B	0.88 × 2.13 mm {0.03 × 0.08 in.}	
	42 column mode	Font A	1.25 × 3.00 mm {0.05 × 0.12 in.}	0.88 × 2.13 mm {0.03 × 0.08 in.}
		Font B	0.88 × 2.13 mm {0.03 × 0.08 in.}	1.25 × 3.00 mm {0.05 × 0.12 in.}

*: Space between characters is not included. Characters can be scaled up to 64 times as large as the standard size.

NOTE

Refer to the following URL regarding the character code table.
https://support.epson.net/publist/reference_en/

Paper Specifications

		80 mm {3.15 in.} width paper	58 mm {2.28 in.} width paper
Paper types		Specified thermal paper	
Form		Roll paper	
Size	Roll paper diameter	Max.: 83 mm {3.27 in.}	
	Roll paper spool	Inside: 12 mm {0.47 in.}, Outside: 18 mm {0.71 in.}	
	Roll width when taken up	80 + 0.5/-1.0 mm {3.15 +0.02/-0.04 in.}	58 + 0.5/-1.0 mm {2.28 +0.02/-0.04 in.}
	Paper width	79.5 ± 0.5 mm {3.13 ±0.02 in.}	57.5 ± 0.5 mm {2.26 ±0.02 in.}
	Paper thickness	Maximum of 75 µm, minimum of 53 µm	
Specified original paper type		NTP080-80	NTP058-80
Specified original paper type		TF50KS-EY, TF60KS-E (NIPPON Paper Industries Co., Ltd.) PD160R, PD190R (Oji Imaging Media Co., Ltd.) P220AGB-1 (Mitsubishi Paper Mills Limited.) JujoP-KSND-55, JujoP-KSND-48 (Jujo Thermal Oy) P5047(55) (Mitsubishi HiTec Paper Flensburg GmbH) KT55FA, KT48FA, KT55PF, KT48PF (Papierfabrik August Koehler SE) Epson Certified Media List for Thermal Receipt Printers ☞ https://support.epson.net/publist/bsredirect.php?code=M001035	

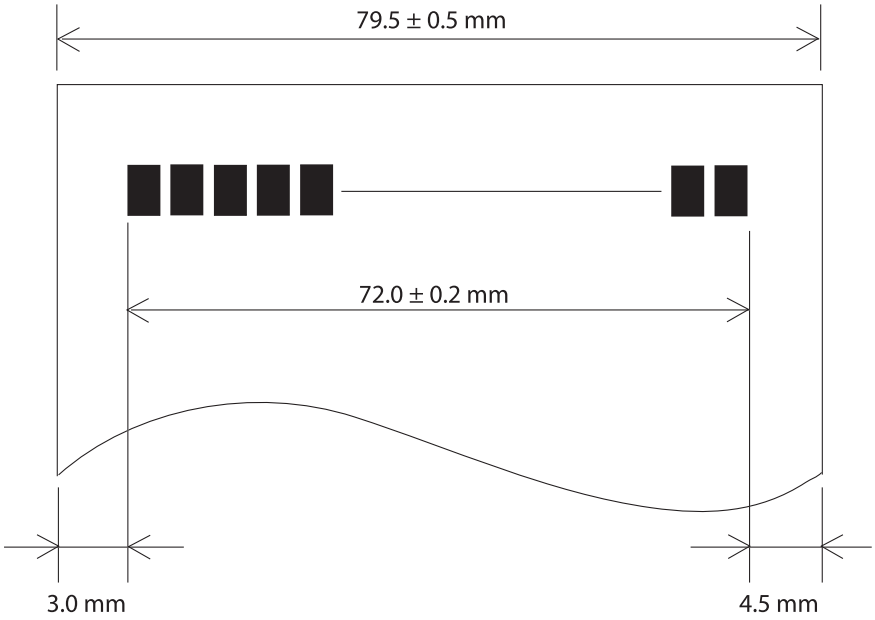
CAUTION

- Paper must not be pasted to the roll paper spool.
- For the best print quality for each paper type, it is recommended to set the print density. (See "Software Settings" on page 45.)
- Use of thermal paper with a pre-printed recording surface should be avoided. Using it can cause the thermal head to stick to the thermal paper surface during printing, and cause printing failure and other problems. The pre-printing also can result in reduced print density. Using thermal paper with a pre-printed recording surface, pre-printing should be done in accordance with the conditions (ink type, printing and other conditions) recommended by the paper manufacturer, and the thermal paper should be checked to ensure that there is no faulty printing, loss of print density, or other problems.

Printable Area

80 mm {3.15 in.} wide paper printing

The maximum printable area of paper with a width of 79.5 ± 0.5 mm {3.13 ± 0.02 in.} is 72.0 ± 0.2 mm {2.83 ± 0.008 in.} (576 dots) and the approximate space is 3.0 mm {0.12 in.} on the left side and 4.5 mm {0.18 in.} on the right side.



58 mm {2.28 in.} wide paper printing

The maximum printable area of paper with a width of 57.5 ± 0.5 mm {2.26 ± 0.02 in.} is 52.5 ± 0.2 mm {2.07 ± 0.008 in.} (420 dots), and the approximate space is 3.0 mm {0.12 in.} on the left side and 2.0 mm {0.079 in.} on the right side.