

Epson *Fiscal Printer TM-T81F*

The reliable and flexible 1-station POS-printer for the fiscally regulated markets

With the TM-T81F Epson offers a new member of its worldwide known TM-T88 thermal printer family. This smart printer is designed to meet the needs in those countries, where fiscal authorities require local solutions. Therefore it offers free inside space to easily integrate fiscal modules. Leading retail system integrators developed solutions that fit perfectly into it. With its outstanding reliability and good affordability, this POS-printer equals perfectly to today's and future demands in almost every retail environment.



Printer Features

- Outstanding reliability due to a very stable mechanism
- Free space to easily integrate fiscal modules
- High speed printing: approx. 23.6 lps or 100 mm/s (with integrated fiscal module)
- vertical direction bar codes (fence) and horizontal bar codes (ladder) in 180 x 180 dpi
- Character font size (12 x 24 font or 9 x 24 font) can be selected

Printer Handling

- Low-noise thermal printing
- The small footprint saves space at the counter
- Easy drop-in paper roll setting saves time at the checkout
- Equipped with a reliable auto cutter for clean receipts
- The printer allows easy and maintenance for tasks such as head cleaning or self explaining paper jam removal

Application Software

- Command protocol is based on the ESC/POS standard
- Various Layouts are possible by using page mode
- Characters can be scaled up to 64 times as large as standard size
- Smoothing is also possible
- Bar code printing is possible by using a bar code command
- Selected for most fiscal retail applications in eastern Europe

Technical data of Epson fiscal printer TM-T81F

Printing method	Direct thermal line 180 dpi × 180 dpi
Print direction	Unidirectional with friction feed
Print width	72.2 mm {2.84"}, 512 dots
Characters per line (default)	Font A: 42 Font B: 56
Character spacing (default)	Font A: 0.28 mm (2 dots) Font B: 0.28 mm (2 dots)
Character size (W × H) (standard / double-height/ double-width / double-height, double-width)	Font A: 1.41 × 3.39 mm / 1.41 × 6.77 mm / 2.82 × 3.39 mm / 2.82 × 6.77 mm {0.056 × 0.133" / 0.056 × 0.267" / 0.111 × 0.133" / 0.111 × 0.267"} Font B: 0.99 × 3.39 mm / 0.99 × 6.77 mm / 1.98 × 3.39 mm / 1.98 × 6.77 mm {0.039 × 0.133" / 0.039 × 0.267" / 0.078 × 0.133" / 0.078 × 0.267"}
Character sets	Alphanumeric: 95 International: 37
Extended graphics:	128 × 11 pages
Print speed	Approx. 100 mm/s with built in fiscal module {3.94"/s} max. (at 24V, 28°C {82.4°F}) Print speed is adjusted automatically, depending on the voltage and print head temperature.
Paper feed speed	Approx. 100 mm/s {3.94"/s}, continuous paper feeding
Line spacing (default)	4.23 mm {0.167"}
Character structure	Font A: 12 × 24 (including 2-dot spacing in horizontal) Font B: 9 × 24 (including 2-dot spacing in horizontal)
Auto cutter	Partial cut (cutting with one point left uncut)
Roll paper (single-ply)	Size: width 79.5 mm ± 0.5 mm {3.13 ± 0.02"} max. outside diameter: 83 mm {3.27"}
Roll paper spool diameter	inside 12 mm {0.47"}, outside 18 mm {0.71"}
Specified roll paper	Roll paper: NTP080-80
Interface	Depending on fiscal solution
Receive buffer	4KB/45 bytes
Power supply	PS-180 (option) +24 VDC ±7%
Current consumption	Mean: approx. 1.7A Standby (mean):0.04A
Life	Mechanism: 15,000,000 lines Thermal head: 100 million pulses, 100 km Auto cutter: 1,500,000 cuts
MTBF	360,000 hours
MCBF	52,000,000 lines (This is an average failure interval based on failures relating to wear out and random failures up to the life of 15 million lines.)
Temperature	Operating: 5 to 45°C {41 to 113°F} Storage: -10 to 50°C {14 to 122°F} (except for paper)
Humidity	Operating: 10 to 90% RH Storage: 10 to 90% RH (except for paper)
External dimensions	143.5 × 144 × 189 mm {5.64" × 5.67" × 7.44"} (H × W × D)
Mass	Approx. 1.7 kg {3.74 lb}
Colour	Epson cool white or Epson dark grey

