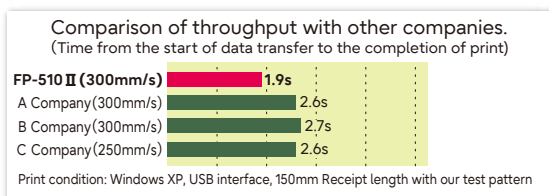# FUJITSU THERMAL PRINTER
FP-510 II

Fujitsu Thermal Printer, FP-510 II, a Multi-functional printer, delivering further improved high throughput and extensive print function for POS, Ticket, KIOSK and Label printing.

● High speed printing – further reduction in waiting time.

· Clear and high speed printing with 300mm/sec
· Higher throughput ability, less waiting time
The original optimum design of Driver and Firmware achieves fast printout of the first page.

Comparison of throughput with other companies.
(Time from the start of data transfer to the completion of print)

FP-510 II (300mm/s)	1.9s
A Company (300mm/s)	2.6s
B Company (300mm/s)	2.7s
C Company (250mm/s)	2.6s

Print condition: Windows XP, USB interface, 150mm Receipt length with our test pattern

● Multi Interface available – Expands your usage

· Flexible Multi-Interface selectable
  (USB / RS232C(25pin) / Powered USB / LAN / Bluetooth)
· Android™ SDK and iOS SDK Available

Available interface of Android™ SDK

USB	LAN	Bluetooth
✓	✓	✓

Available interface of iOS SDK

USB	LAN	Bluetooth
-	✓	✓

Android™

Made for iPod iPad
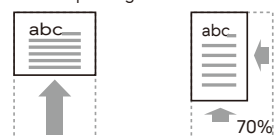
● 16 Gray Scale function – produces vibrant images

16 Gray scale function outputs vibrant and clear images even with monochrome printing. High resolution image printing capability supports your branding stratery to print product images on coupons and receipt advertisement (available with OPOS and Windows driver).

FUJITSU
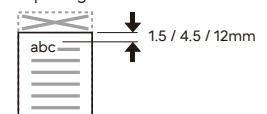Take $3 OFF !!

● Reduce printing – lower operation cost

Reduced print function of Windows Driver and Top Margin reduction function lowers paper usage. Operating cost and environmental impact can be reduced.

■ Reduce printing

abc

abc

70%

· 1/4 reduced vertically
· 1/2 reduced vertically

· 80 width paper
  → convert to 58mm

■ Top Margin selectable 1.5 / 4.5 / 12mm

1.5 / 4.5 / 12mm

abc

** remove receipt each time after printing in case of 1.5mm or 4.5mm margin setting

● High reliability mechanism-long and stable operation

· Head life 150km
· Cutter life 2 million cuts (Receipt paper)
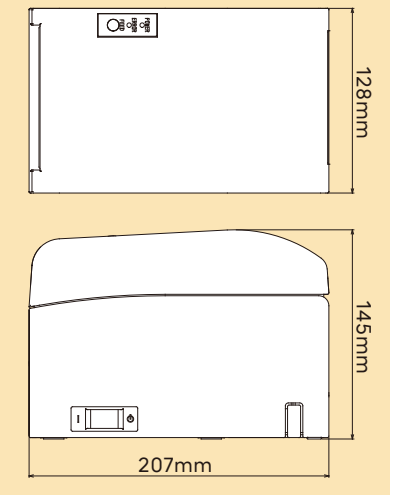· MCBF 70million lines

FUJITSU FP-510Ⅱ Specifications

Printing Technology			Direct Line Thermal Method			
Print Resolution			8 dot/mm (0.125mm/dot) 203dpi			
Printing Speed			Monochrome: Maximum 300mm/s(69lps) Two color: Maximum 115mm/s(30lps)			
Paper Feed-out Direction			Front feed out			
Cutter Method			Partial-cut cutter (Standard) Full-cut cutter, Programmable Partial-cut and Full-cut cutter (Factory option)			
Auto Cutter Position			12mm(Standard) or Programmable 4.5mm of 1.5mm distance between cutter and top of form			
Paper	Paper width		83mm, 80mm, 60mm, 58mm,			
	Outer Diameter of Roll Paper		Up to 102mm (Paper thickness: 75~90μm) Up to 90mm (Paper thickness: 90~150μm)			
	Paper Thickness		75μm(0.075mm) - 150μm(0.150mm)			
Maximum Print Width	58mm width paper		48mm (384dots) or 52.5mm (420dots)			
	60mm width paper		54.5mm (436dots)			
	80mm width paper		64mm (512dots) or 72mm (576dots)			
	83mm width paper		80mm (640dots)			

Font size and Column			203dpi (Normal mode)			180dpi(Extended mode)	
			Font A (Column)	Font B (Column)	Font C (Column)	Font A (Column)	Font B (Column)
	Paper width 58mm	Body Face	12x24 (32 or 35)	10x24 (38 or 42) 9x24 (42 or 46)	8x16 (48 or 52)	12x24 (32 or 35)	10x24 (38 or 42) 9x24 (42 or 46)
		Letter Face	11x22 (32 or 35)	9x17 (38 or 42) 9x17 (42 or 46)	8x13 (48 or 52)	12x24 (32 or 35)	9x22 (38 or 42) 9x22 (42 or 46)
	Paper width 60mm	Body Face	12x24 (36)	10x24(42), 9x24(48)	8x16(54)	12x24(36)	10x24(43), 9x24(48)
		Letter Face	11x22 (36)	9x17(42), 9x22(48)	8x13(54)	12x24(36)	9x22(43), 9x22(48)
	Paper width 80mm	Body Face	12x24 (42 or 48)	10x24 (51 or 57) 9x24 (56 or 64)	8x16 (64 or 72)	12x24 (42 or 48)	10x24 (51 or 57) 9x24 (56 or 64)
		Letter Face	11x22 (42 or 48)	9x17 (51 or 57) 9x17 (56 or 64)	8x13 (64 or 72)	12x24 (42 or 48)	9x22 (51 or 57) 9x22 (56 or 64)
	Paper width 83mm	Body Face	12x24(53)	10x24(64),9x24(71)	8x16(80)	12x24 (53)	10x24 (64), 9x24 (71)
		Letter Face	11x22(53)	9x17(64),9x22(71)	8x13(80)	12x24 (53)	9x22(64), 9x22(71)

Character Sets	1byte	ANK(95 char.), International Character(48 char.), Enlarged Graphics(128 char. x 20 pages), Download Character(95 char.)
	2bytes	JIS 1 & 2 Kanji(6879 char.) JISX0208-1990, User-Defined character(94char.), Special Characters(845 char.)
Barcode	Barcode	UPC-A, UPC-E, EAN13, EAN8, CODE39, ITF, CODABAR(NW-7), CODE93, CODE128
	Two dimensional code	PDF417, DataMatrix, QR code
Gray scale function		16scales (OPOS Driver only)
Receive Buffer		Max. 4KB
Logo Store Memory		3Mbits (Max. 384KB)
Paper Near End & Paper End		Available
Reflective (Black Mark) paper sensor		Factory option
Internal Buzzer		One buzzer (Standard)
Interface	Dual (RS232C+USB)	RS232C Serial (D-SUB 25pins) + USB(2.0 Full-speed, Type-B x 1port)
	Dual(Bluetooth+USB)	V3.0/Power Class 2/SPP) + USB(2.0 Full-speed)
	Powered USB	USB Full speed (FCI 8pins)
	LAN	Wired, 10BASE-T/100BASE-TX (RJ-45 x 1port)
Software Interface		ESC/POS emulation
Drawer Interface		1 Drawer Controllable

Software	Printer Driver	Windows	Windows driver
			OPOS driver (Ver.1.13)
			JavaPOS driver (Ver.1.10)
			Windows Server® 2019,Windows Server® 2016,Windows® 10,Windows Server® 2012 R2,Windows® 8.1,Windows Server® 2012,Windows® 8,Windows Server® 2008 R2,Windows® 7, Windows Server® 2008, Windows Vista®, Windows Server® 2003,Windows® XP, Windows Embedded for Point of Service (WEPOS)WEPOS Ready 2009,WEPOS Ready 7 *3
		Linux	JavaPOS driver (Ver.1.10) Linux SuSE11.4/13.2/42.4, Cant OS 6.4/7.4, Ubuntu 12.04/14.04/17.4
	Printer Utility		Printer Utility (to set the printer's setup items) Status monitor *4 Android : 6.0 or more iOS : LAN: 6.1.3 or more, Bluetooth: 8.0 or more
	LAN Utility		Quick Setup PR-PortManager (Popup Status Monitor) Admin Manager (Printer Status Monitor, System Status Monitor, IP Address Setup)
RELIABILITY	MCBF (Mean-cycle-between-failure)		70million Lines *1
	Print Head		150km (Monochrome), 75km (Two color) *1
	Cutter Life		2 million times of partial cut (Recommended Normal paper use) *1
Power Requirements			DC Input: +24VDC±10% AC Input: 100 - 240V, 50/60Hz, Single Phase
Power Consumption			During standby : 4.5w/0.2A , Average during operating : 44w/1.5A
Operating condition	Temperature		Operation guarantee: 0 ℃ to 40℃ Print quality guarantee: 5 ℃ to 35℃
	Humidity		10% ~ 95%RH (without condensation, Highest wet bulb temperature: 29℃ or less)
ESD resistance			Direct application Contact discharge: 0~8kV *1 Direct application Air discharge: 0~15kV *1 Indirect discharge: 0~15kV *1
RoHS and FUJITSU Environment Assessment			Standard
Dimensions			128(W)x207(D)x145(H)mm
Weight (without the packing box)			Normal Model: 1.9kg
Cover Color			Black & White

*1 Operation condition is under 500 transactions/day (1transaction=25LF + 1cut), 340days/year, print duty less than 9%, and the life of Head or Cutter with using specified paper by our company. If unspecified paper is used, the life of printer might be shortened than expected. Also, it might cause trouble for the printer.
*2 Based on FUJITSU measurement and quality standards.
*3 Bluetooth is not supported for Windows Server®2012, Windows Server® 2008, Windows Server®2003 and WEPOS.
*4 Status Monitor does not support Bluetooth interface.
*5 OPOS Driver and JavaPOS Driver do not support Bluetooth.
*6 The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Fujitsu Isotec Limited is under license.
*7 Other trademarks and trade names are those of their respective owners. WindowsR: Microsoft Inc., iOS: Cisco Systems Inc., Android™: Google Inc., iPod/iPad: Apple Inc.
*8 Apple Mfi License Program certified. All specifications are subject to change without notices.

Features

- High speed printing max.300mm/s, One touch cover open, Drop-in method of paper roll loading.
- 16 gray scales function
- Reduced printing to save paper
- 180dpi emulation size font (Extended font)
- Various paper width support max.Ф102mm, 83mm
- Standard Buzzer
- PDF417,DataMatrix, barcodes
- High reliability
  ・MCBF: 70 million lines
  ・Head life: 150km
  ・Cutter life: 2 million cuts
- Front paper ejection
- Splash-proof IEC 60529 IPX2
- RoHS and FUJITSU Super Green product

Dimensions

128mm
145mm
207mm

Super green product is the product which complies with Fujitsu group original severe environmental standard FP-510Ⅱ passes our own severe environmental standard, and it is called "Super Green Product". The use of Recyclable material, Material Label attachment and Downsizing supports the environment.

JMI-0046

http://www.fujitsu.com/jp/fit/en/