

FUJITSU Component Thermal Printer FTP-64HMCL153 series

Fujitsu 4" high speed (100mm/s) thermal printer mechanism

Overview

The FTP-64HMCL series battery driven thermal printer provides high speed printing (100mm/s) for 4-inch wide paper.

The series is suitable for a variety of applications, such as POS/ECR, kiosk terminals, ticket machines, label printers, banking machines, measuring devices, medical equipment, etc.



FTP-64HMCL153

Features

- **High-speed printing**
It can print at 100mm/s (800 dotlines/s) maximum by using Fujitsu Components' unique head drive control
- **Rear paper insertion mechanism with locking platen**
Fujitsu Components' unique platen release mechanism allows straight paper path and easy head maintenance
- **New diecast frame and motor location allowing for a more compact design**
- **Compact size**
Depth: 29.1mm, width: 144.6mm, height: 42.5mm
- **High resolution**
8 dots/mm head provides clear print out
- **RoHS compliant**
- **UL recognized. File number E171434**

■ Part numbers

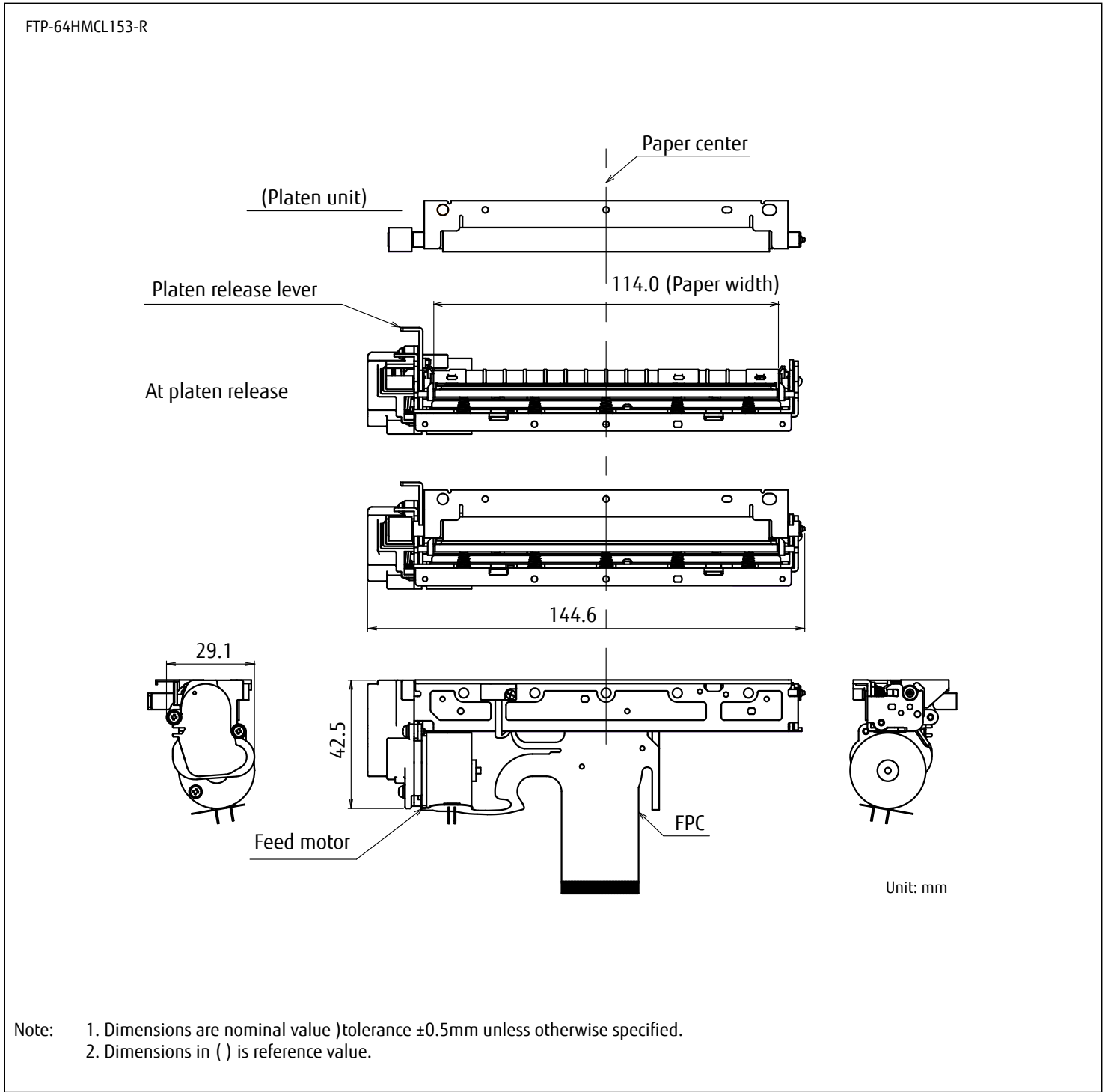
Item	Part Number	
Printer mechanism	Back insertion	FTP-64HMCL153
Interface board		FTP-62HDSL101#01-R
Interface cable	USB	FTP-629Y301#01-R
	RS-232C	FTP-629Y302-R
Power supply cable		FTP-629Y601-R

■ Specifications

Item	Specifications	
Part number	FTP-64HMCL153	
Printing method	Thermal sensitive line dot method	
Dot structure	832 dots/lines	
Dot pitch (horizontal)	0.125mm (8 dots/mm) - Dot density	
Dot pitch (vertical)	0.125mm (8 dots/mm) - Line feed pitch	
Effective printing area	104mm	
Number of columns	TBA	
Paper width	114mm +0/-1	
Paper thickness	60-150µm (there may be exceptions)	
Cutting type	---	
Printing speed	100mm/s (800 dot lines/s)	
Interface types	TBA	
Character types	TBA	
Character dimensions (W x H), number of characters	TBA	
Interface standard	TBA	
Power	For head	4.2 to 9.5VDC, 2.4A (7.2V, concurrent applied dot number: 64dots)
	For printer motor	4.2 to 9.5VDC, 1.5A maximum
	For logic	3.3 or 5 VDC ±10%. 0.1A maximum
Dimensions (WxDxH)	Printer mechanism	144.6 x 29.1 x 42.5mm
	Interface board (DCL/DSL)	TBD
Weight	Printer mechanism	170g
	Interface board (DCL/DSL)	TBD
Expected life	Head	Pulse durability: 100 million pulse/dot (using Fujitsu Components' standard driving method) Wear resistance: 100km (at 12.5% print ratio)
Environmental conditions	Operating temperature	+5°C to +40°C (guarantee)
	Operating humidity	20 to 85% RH (no condensation)
	Storage temperature	-20°C to +60°C (excluding paper)
	Storage humidity	5 to 95% RH (no condensation)
Detection functions	Head temperature	By thermistor
	Motor temperature	Thermistor
	Paper out/Mark detect	By photointerrupter
	Head release	By slide switch
Recommended thermal sensitive paper	PD150R (Oji paper)	

■ Dimensions

- Printer mechanism 4-inch



■ Connector pin assignments of cutter (FPC) 52559-4052 (Molex)

No	Signal	Content	I/O
1	VSEN	Paper sensor power	IN
2	PHK	Cathode for photo interrupter	OUT
3	PHE	Emitter for photo interrupter	OUT
4	N.C.	Not connected	-
5	N.C.	Not connected	-
6	VH	Head drive power	IN
7	VH	Head drive power	IN
8	VH	Head drive power	IN
9	VH	Head drive power	IN
10	DI	Data in	IN
11	CLK	Clock	IN
12	GND	Head ground	-
13	GND	Head ground	-
14	GND	Head ground	-
15	GND	Head ground	-
16	STB7	Strobe7	IN
17	STB6	Strobe6	IN
18	STB5	Strobe5	IN
19	VDD	Logic power	IN
20	TM	Thermistor	OUT
21	STB4	Strobe4	IN
22	STB3	Strobe3	IN
23	STB2	Strobe2	IN
24	STB1	Strobe1	IN
25	GND	Head ground	-
26	GND	Head ground	-
27	GND	Head ground	-
28	GND	Head ground	-
29	/LAT	/Data latch	IN
30	DO	Data out	OUT
31	VH	Head drive power	IN
32	VH	Head drive power	IN
33	VH	Head drive power	IN
34	VH	Head drive power	IN
35	N.C.	Not connected	-
36	N.C.	Not connected	-
37	SW	Platen switch release	OUT
38	SW	Platen switch release	OUT
39	FG	Flame grand	-
40	MTM	Motor thermistor	OUT

■ Connector pin assignments of cutter (FPC) 52559-4052 (Molex)

No	Signal	Content	I/O
41	MTM	Motor thermistor	OUT
42	N.C.	Not connected	-
43	MT_/A	Excitation signal /A	SINK/SOURCE
44	MT_/A	Excitation signal /A	SINK/SOURCE
45	MT_A	Excitation signal A	SINK/SOURCE
46	MT_A	Excitation signal A	SINK/SOURCE
47	MT_/B	Excitation signal /B	SINK/SOURCE
48	MT_/B	Excitation signal /B	SINK/SOURCE
49	MT_B	Excitation signal B	SINK/SOURCE
50	MT_B	Excitation signal B	SINK/SOURCE

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