

24 V DRIVE, FTP-607 SERIES HIGH SPEED THERMAL PRINTER 3-INCH TYPE MECHANISM

FTP-637MCL101/103

OVERVIEW

The FTP-607MCL Series thermal printer (driven by 24VDC) provides ultra-high speed printing (80mm/s) for 2-inch and 3-inch wide paper. Our original platen removal mechanism allows easy paper loading and maintenance.

The FTP-607 MCL series can be used for a variety of applications, such as POS/ECR, Kiosk terminals, ticket issuing terminals, label printers, banking terminals, and measurement and medical equipment.



Compact size

Height 15.5 mm, width 70.4 mm, depth 33.0 mm for the 2 inch model. The 3-inch product has a width of 92.4mm.

· High speed printing

It can print at 100 mm/s (800 dotlines/s) maximum by using Fujitsu's unique head drive control.

Easy loading mechanism (ELM) type

Our unique platen removal mechanism improved paper loading and maintenance.

Multi-featuring diecast fame

By application of multi-featuring diecast frame, continous print by function of heat-sink, high ESD stand by function of earth frame and shock/vibration stand by function of solid frame are valid.

· High resolution printing

8 dots/mm of resolution printing is possible.

RoHS compliant



■ PART NUMBERS

Name		Part Number
Printer Mechanism	3 inch	FTP-637MCL101 FTP-637MCL103
LSI		FTP-627CU201
Interface Board	parallel	FTP-637DCL218
	serial	FTP-637DSL238
Interface Cable	Parallel (Centronics)	FTP-628Y202
	Serial (RS-232C)	FTP-628Y30 2
Power Cable	Logic	FTP-629Y401
	Head motor	FTP-629Y601

■ SPECIFICATIONS

Item		Specifications	
Part number		FTP-637MCL101/103	
Printing method		Thermal-sensitive line dot method	
Dot structure		576 dots/line	
Dot pitch (Horizontal)		0.125 mm (8 dots/mm)—Dot density	
Dot pitch (Vertical)		0.125 mm (8 dots/mm)—Line feed pitch	
Effective printing area		72 mm	
Number of columns		ANK 48 columns/line (max.12x 24 dot font)	
Paper width		80 mm ⁺⁰ 1	
Paper thickness		60 to 100 μ m (some paper in this range may not be used because of paper characteristics)	
Printing Speed		Maximum 100mm/sec. (800 dot line/sec.)	
Character types		Alphanumeric, katakana: International and special characters: JIS Kanji (supported when Kanji CG is mounted):	159 types 195 types about 6800 types
Character, dimensions (H×W), number of columns	(1.5 × 3.0mm) (3.0 × 3.0mm) (1.0 × 2.0 mm) (2.0 × 2.0 mm)	48 columns: ANK 28 columns: ANK, Kanji 72 columns: ANK 36 columns: ANK, Kanji	

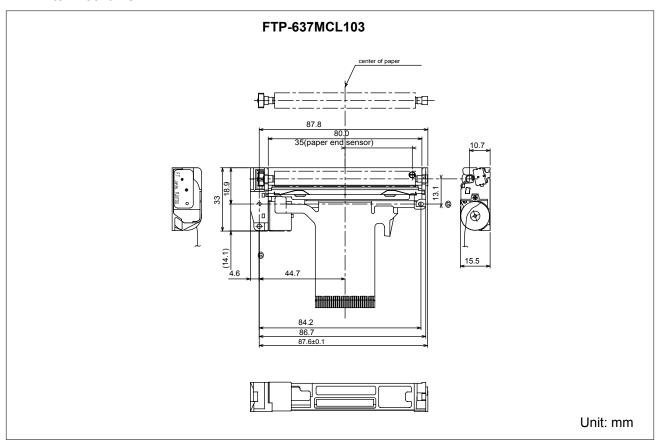
■ SPECIFICATIONS

Item		Specification
		FTP-637MCL101/103
Interface		Conforms to RS232C / Centronics
Operating	For print head	24 VDC ±5%, 1.5 A average, 2.2 A peak (print ratio: 25%)
Voltage	For motor	24 VDC ±5%, 1 A maximum
	For logic	3.3 to 5.25 VDC ± 5%, 0.5 A maximu
External dimensions	Printer mechanism	92.4 x 33.0 x 15.5 mm (WxDxH)
	Interface board	70 x 60 x 11.6 mm (WxDxH)
Weight	Printer mechanism	Approximately 52g
	Interface board	Approximately 50g
Life	Head	Pulse resistance: 5x 10 ⁸ pulses/dot (under our standard conditions). Abrasion resistance: paper traveling distance 50km (print ratio: 25% or less)
	Platen	5,000 (open/close)
Operating environment	Operating temperature	0° C to +50° C*1
	Operating humidity	20 to 85% RH (no condensation)
	Storage temperature	-20° C to +60° C (paper not included)
	Storage humidity	5 to 90% RH (no condensation)
Detection function	Head temperature detection	Detected by thermistor
	Paper out/mark detection	Detected by photo-interrupter
	Platen release detection	Detected by slide switch
Recommended thermal sensitive paper		FTP-030PU001(80mm)

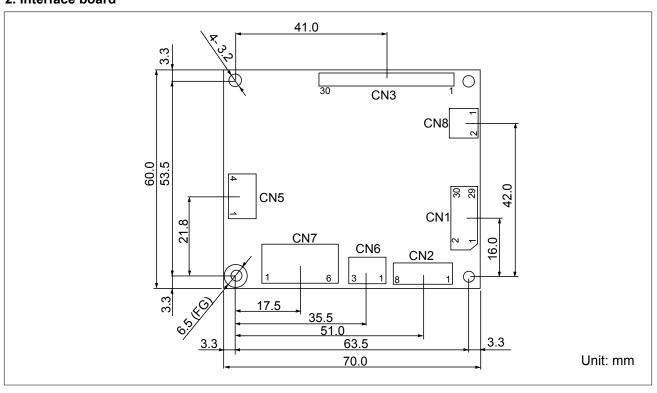
^{*1:} printing density assurance range, operation is possible at -0°C to +40°C

■ DIMENSIONS

1. Printer mechanism



2. Interface board



■ CONNECTOR PIN ASSIGNMENT OF MECHANISM (FPC)

1. Thermal Head

Part number : 52610-3071 Molex or equivalent

FTP-637MCL103 PIN ASSIGNMENT

	FIP-03/WCL103 PIN ASSIGNWENT				
No	Signal	I/O	Contents		
1	PHK	_	Photointerruptor (Cathode)		
2	VSEN	I	Ground power supply for paper sensor		
3	PHE	0	Photointerruptor (Emittor)		
4	sw		Platen open switch		
5	sw		Platen open switch		
6	VH	I			
7	VH	ı	Power supply for thermal head		
8	VH	I			
9	DI	I	Print data in		
10	STB3	I	Print enable 3		
11	STB4	I	Print enable 4		
12	VDD	ı	Power for logic		
13	GND	_			
14	GND	_			
15	GND	_			
16	GND	_	Ground power supply for thermal head		
17	GND				
18	GND	_			
19	TM	0	Thermistor		
20	STB1	I	Print enable 1		
21	STB2	I	Print enable 2		
22	LAT		Print data latch		
23	CLK	I	Clock		
24	VH	I			
25	VH	I	Power supply for thermal head		
26	VH	ļ			
27	MT A	I			
28	MT A	I	Stepping motor excitation signal		
29	мт в	I			
30	мт в	I			

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