

# 24 V DRIVE, FTP-607 SERIES HIGH SPEED THERMAL PRINTER 2-INCH TYPE EASY LOAD MECHANISM

# FTP-627MCL103/113

## OVERVIEW

The FTP-607MCL Series thermal printer (driven by 24VDC) provides ultra-high speed printing (100mm/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, 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 head drive control.

#### Easy loading mechanism (ELM) type

Our detachable 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.



# ■ PART NUMBERS

Name		Part Number
Printer Mechanism		FTP-627MCL103 FTP-627MCL113
LSI		FTP-627CU201
Interface Board	parallel	FTP-627DCL218
	serial	FTP-627DSL238
Interface Cable (board to mechanism)	Centronics	FTP-628Y202
	RS-232C	FTP-628Y302
Power supply cable	logic	FTP-629Y401
	head, motor	FTP-629Y601

# **■ SPECIFICATIONS**

Item		Specifications		
Part number		FTP-627MCL103	FTP-627MCL113	
Printing method		Thermal-sensitive line dot method		
Dot structure		384 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		48 mm		
Number of columns		ANK 32 columns/line (max.12x 24 dot font)		
Paper width		58 mm <sup>+</sup> ⁰		
Paper thickness		60 to 100 $\mu$ 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 charact JIS Kanji (supported when Kanji CG is mo	• •	
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)	12 $\times$ 24 dots, 32 columns: ANK 24 $\times$ 24 dots, 16 columns: ANK, 8 $\times$ 16 dots, 48 columns: ANK 16 $\times$ 16 dots, 24 columns: ANK	•	

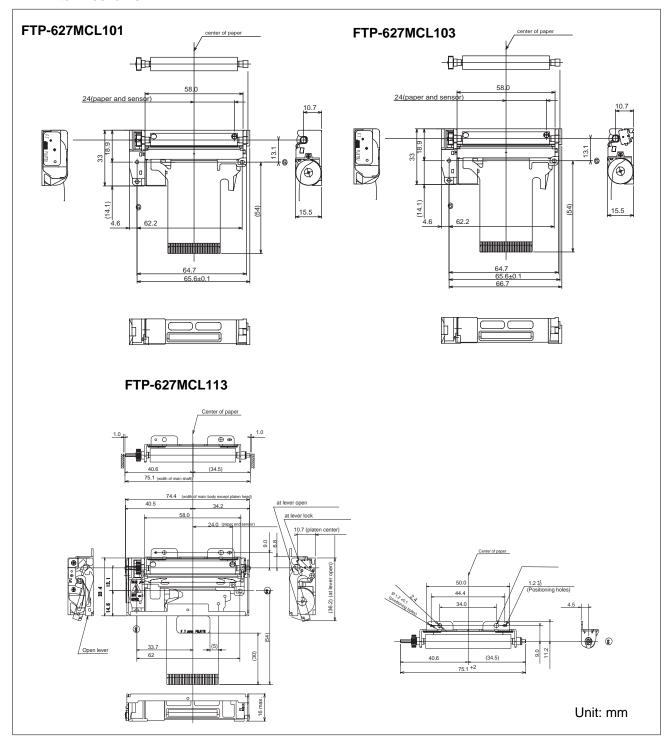
# **■ SPECIFICATIONS**

Item		Specification		
		FTP-627MCL103	FTP-627MCL113	
Interface		Conforms to RS232C / Centronics		
Operating Voltage	For print head	24 VDC ±5%, 1.0 A average (1.5A peak) 24V, 25% printing ratio		
	For motor	24 VDC, 1 A maximum		
	For logic	5 VDC ± 5%, 0.1 A maximum		
External dimensions	Printer mechanism	70.4 x 33.0 x 15.5 mm (WxDxH)	75.0 x 33.4 x 15.5 mm (WxDxH)	
	Interface board	70 x 60 x 24 mm (WxDxH)		
Weight		Approximately 42g	Approximately 54g	
Life	Head	Pulse resistance: 50 million pulses/dot (under our standard conditions). Abrasion resistance: paper traveling distance 50km (print ratio: 25% or less)		
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 95% 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 (103/383 only)		
Recommended thermal sensitive paper		FTP-020PU001 (58mm)		

<sup>\*1:</sup> printing density assurance range, operation is possible at -25°C to +70°C

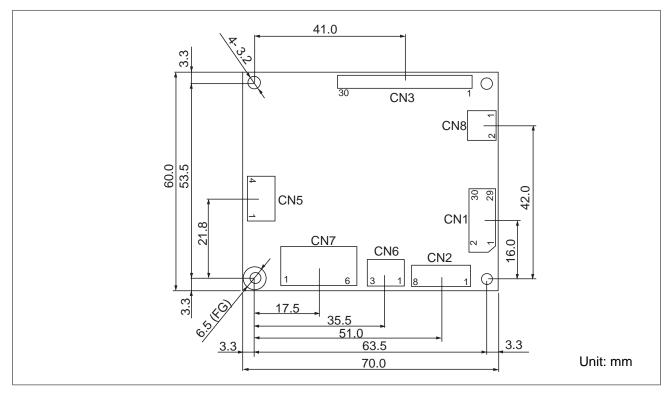
## **■ DIMENSIONS**

## 1. Printer mechanism



# FTP-627MCL103/113

## 2 Interface board



# ■ CONNECTOR PIN ASSIGNMENT OF MECHANISM (FPC)

## 1. Thermal Head

Part number : 52610-3090 Molex or equivalent

## FTP-627MCL101/103 PIN ASSIGNMENT

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No	Signal	I/O	Contents	
1	PHK	_	Photointerrupter (Cathode)	
2	VSEN	I	Ground power supply for paper sensor	
3	PHE	0	Photointerrupter (Emittor)	
4	SW	_	Platen open switch	
5	SW	0	Platen open switch	
6	VH	_		
7	VH	_	Power supply for thermal head	
8	VH	_		
9	DI	I	Print data in	
10	STB3	I	Strobe 3	
11	VDD	_	Power for logic	
12	TH	0	Thermistor	
13	GND	_		
14	GND	_		
15	GND	_		
16	GND	_	Ground power supply for thermal head	
17	GND	_		
18	GND	_		
19	STB1	I	Strobe 1	
20	STB2	I	Strobe 2	
21	LAT	I	Print data latch	
22	CLK	I	Clock	
23	NC	_	Not connected	
24	VH	_		
25	VH	_	Power supply for thermal head	
26	VH	_		
27	MT/A	I		
28	MT/Ā	I	Stepping motor excitation signal	
29	MT/B	I		
30	MT/B	I		

# FTP-627MCL103/113

# Fujitsu Components International Headquarter Offices

#### Japan

Fujitsu Component Limited Gotanda-Chuo Building

3-5, Higashigotanda 2-chome, Shinagawa-ku

Tokyo 141, Japan Tel: (81-3) 5449-7010 Fax: (81-3) 5449-2626

Email: promothq@ft.ed.fujitsu.com Web: www.fcl.fujitsu.com

### North and South America

Fujitsu Components America, Inc. 250 E. Caribbean Drive Sunnyvale, CA 94089 U.S.A. Tel: (1-408) 745-4900 Fax: (1-408) 745-4970 Email: marcom@fcai.fujitsu.com Web: www.fcai.fujitsu.com

#### Europe

Fujitsu Components Europe B.V. Diamantlaan 25

2132 WV Hoofddorp Netherlands Tel: (31-23) 5560910 Fax: (31-23) 5560950 Email: info@fceu.fujitsu.com Web: www.fceu.fujitsu.com

## Asia Pacific

Fujitsu Components Asia Ltd. 102E Pasir Panjang Road #04-01 Citilink Warehouse Complex

Singapore 118529 Tel: (65) 6375-8560 Fax: (65) 6273-3021 Email: fcal@fcal.fujitsu.com www.fcal.fujitsu.com

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