

BATTERY DRIVE, FTP-608 Series 2" HIGH SPEED THERMAL PRINTER

FTP-628 MCL101#21/ #50 Easy Loading Method

■ OVERVIEW

The easy loading FTP-608 MCL Series is ultra compact high speed, battery driven thermal printer, printing on 2-inch wide paper (58mm) where platens are removable. Our original platen removal mechanism improved paper loading and maintenance.

The FTP-608 MCL series can be used for a variety of applications, such as portable terminals, POS, ticket issuing terminals, label printers, banking terminals, and measurement and medical equipment.



Easy loading type

Our original platen removal mechanism improved paper loading and maintenance.

Ultra compact

Height 15.5 mm, width 70.2 mm, depth 33.0 mm for the 2 inch model.

· Low drive power

3 or 5V operation.

High speed printing

It can print at 60 mm/s (480 dotlines/s) maximum by using Fujitsu's unique head drive control.

High resolution printing

8 dots/mm of resolution printing is possible.



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■ PART NUMBERS

Item		Part Number		
Printer mechanism		FTP-628MCL101 #21 without platen open detect switch FTP-628MCL101 #50 without platen open detect switch		
LSI for driving		ТВА		
Interface	Parallel	ТВА		
Board	Serial	ТВА		
Interface	Parallel	ТВА		
Cables	Serial	TBA		
Power cable	Head, motor, logic	ТВА		

■ SPECIFICATIONS

Item	Specifications			
Part number	FTP-628MCL101#21	FTP-628MCL101#50		
Printing method	Thermal-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 (maximum 12x 24 dot font)			
Paper width	58 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 (max.)	60mm/sec. (480 dot line/sec.) at 7.2V	60mm/sec. (480 dot line/sec.) at 8.5V		
Character types	Alphanumeric, katakana: International and special characters: JIS Kanji level 1, level 2, non-Kanji (supported only when Kanji CG is mounted): about 6800 types			
Character, dimensions (H×W), number of columns	12 × 24 dots, (1.5 × 3.0mm), 32 columns: ANK 24 × 24 dots, (3.0 × 3.0mm), 16 columns: ANK, Kanji 8 × 16 dots, (1.0 × 2.0 mm), 48 columns: ANK 16 × 16 dots, (2.0 × 2.0 mm), 24 columns: ANK, Kanji			

■ SPECIFICATIONS

ltem		Spec	ification		
	item	FTP-628MCL101#21	FTP-628MCL101#50		
Interface		Conforms to RS232C / Centronics			
Operating Voltage	For print head	2.7 to 7.2VDC,average current 1.9A (3A) peak Printing ratio: 12.5%, at 4.2V	4.2 to 8.5 VDC, average current 3.2A (3.8A) peak Printing ratio: 12.5%, at 7.2V		
voitage	For motor	4.2 to 8.5 VDC, 1 A max.			
	For logic	3.0 to 5.25 VDC, 0.1 A maximum			
External dime	ensions	70.2 x 33.0 x 15.5 mm (WxDxH)			
Weight		Approximately 42g			
Head life		Pulse resistance: 100 million pulses/dot (under our standard conditions). Abrasion resistance: paper traveling distance 50km (print ratio: 25% or less)			
	Operating temperature*	0° C to +50° C			
Operating	Operating humidity	20 to 85% RH (no condensation)			
environment	Storage temperature	-20° C to +60° C (paper not included)			
	Storage humidity	5 to 95% RH (no condensation)			
Detection	Head temperature detection	Detected by thermistor			
function	Paper out/mark detection	Detected by photo-interrupter			
		High sensitive paper:	TF50KS-E4 (Nippon Paper)		
		Standard paper:	TK50KS-E (Nippon Paper) PD150R (Oji Paper) FTP-020P0107 (58mm)		
Recommende	ed thermal sensitive paper	Medium life storage paper:	TK60KS-F1 (Nippon Paper) FTP-020P0102 (58mm) PD170R (Oji Paper) AFP220VBB-1 (Mitsubishi Paper)		
		Long life storage paper:	PD160R-N (Oji Paper) AFP-235 (Mitsubishi Paper) TP50KJ-R (Nippon Paper) HA112AA (Nippon Paper)		

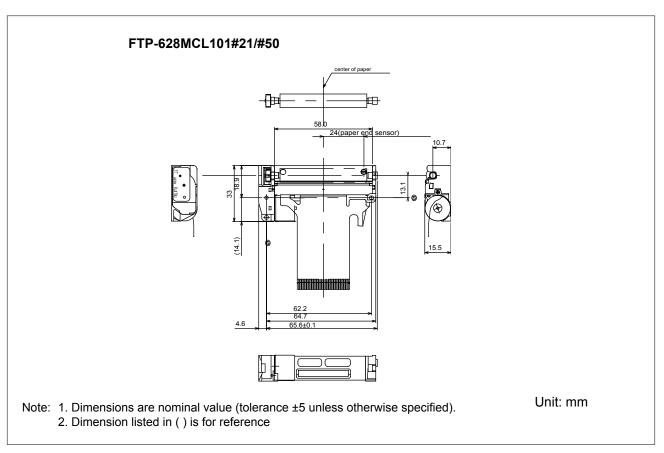
^{*+5°}C to +40°C printing density assurance rance (-25 to 70°C capability)

■ FUNCTION

	Item		Item
1.	Test print function	8.	Mark detection function
2.	Paper out detection	9.	MCU operation abnormality detection
3.	Paper near end detection	10.	Power ON/OFF sequence protection
4.	Thermal head temperature abnormality detection	11.	Motor over-current protection
5.	Blow-out fuse detection	12.	Hardware timer
6.	Head voltage abnormality detection		
7.	Motor power saving function		

■ DIMENSIONS

1. Printer mechanism: 2- inch



■ PRINTER CONNECTOR (FLEXIBLE PT BOARD) PIN ARRAYS FTP-628 MCL101#11 / #21

Thermal head, control circuit side connector: 52610-3071 Molex or equivalent product

No	Signal	I/O	Contents	
1	PHK	_	Cathode for photo interruptor	
2	VSEN	I	paper sensor power	
3	PHE	0	Emittor for photo interruptor	
4	N.C.	_	No connection	
5	N.C.	_	No connection	
6	VH	_	Head drive power	
7	VH	_	Tread drive power	
8	DI	I	Data in	
9	CLK	I	Synchronous clock for communication	
10	GND		Ground power supply for thermal head	
11	GND	_	Ground power supply for thermal nead	
12	STB6	I		
13	STB5	I	Thermal head energizing control signal	
14	STB4	I		
15	VDD	I	Logic power	
16	TH	0	Thermally sensitive resistor input termnial 1	
17	TH	0	Thermally sensitive resistor input termnial 2	
18	STB3	I	Thermal head energizing control signal	
19	STB2	I		
20	STB1	I		
21	GND	_	Cround power cupply for the area like and	
22	GND		Ground power supply for thermal head	
23	LAT	I	Data latch	
24	DO	0	Data out	
25	VH	I	Power supply for thermal head	
26	VH	I	Tower supply for thermal flead	
27	MT A	I		
28	MT Ā	I	Stepping motor excitation signal	
29	MT B	I		
30	MT B	I		

Do not plug or unplug the FPC when power is on.

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