

# 24V DRIVE, ULTRA HIGH SPEED LINE THERMAL PRINTER 4" MECHANISM

# FTP-641MCL101/102

#### OVERVIEW

This thermal printer (driven by 24 VDC) provides ultra-high speed printing for 4-inch wide paper (114 mm). This printer is small in size, light weight, and has low power consumption. The print head is designed with open construction for easy maintenance.

This printer is suitable for a variety of applications, such as POS terminals, ticket machines, label printers, measuring devices and medical equipment.

In addition to the interface board, a driving LSI (MCU + Gate Array) is also available.

#### **■ HIGHLIGHTS**

· Ultra high speed printing

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

· Compact and lightweight

The printer has a low profile of only 28 mm, and a light weight of approximately 290 g.

Low power consumption

The peak current for head driving is approximately 6.0 A (at 50 mm/s printing speed, 50% printing ratio).

Easy head access

Head-open construction makes head maintenance easy, especially for head cleaning.

• Paper auto loading function

The thermal paper can be loaded without head-up lever operation.

High resolution

8 dots/mm head provides clear print output.

· Selectable paper paths

Front or rear insertion types are available.

FTP-641MCL102 can print on paper thicknesses of up to 150  $\mu$ m.

FTP-641MCL101, 102		
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FTP-621CU102, FTP-633GA101



FTP-621DCL002

## **■** DESIGNATION

	ltem	Part number
Printer mechanism	Front paper insertion type	FTP-641MCL101
Printer mechanism	Rear paper insertion type (supports thick paper)	FTP-641MCL102
Interface board		FTP-621DCL002
1.01	Micro Controller Unit	FTP-621CU102
LSI	Gate Array	FTP-633GA101

## **■ GENERAL SPECIFICATIONS**

Item		Specifications
Printing method		Thermal-sensitive line dot method
Dot structure		832 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		104 mm
Number of columns		69 columns/line (maximum)—Alphanumeric KANA
Maximum printing speed		800 dotlines/s (100 mm/s) maximum
Character types		JIS ANK : 128 International characters : 130 Semi-graphic : 63 ASCII small characters : 31 Download : 384
Character composition, dimensions (H×W), Number of columns (standard)		$24 \times 12$ dots, $(3.0 \times 1.5$ mm), 69 columns $32 \times 16$ dots, $(4.0 \times 2.0$ mm), 52 columns $24 \times 24$ dots, $(3.0 \times 3.0$ mm), 34 columns $32 \times 32$ dots, $(4.0 \times 4.0$ mm), 26 columns
Interface		1) Centronics standard 2) Bus interface*1
Power supply	For head	24 VDC ± 5%, average:*2 0.33 (1.72) A (at 25 mm/s printing speed, 25% printing ratio) 0.64 (3.01) A (at 50 mm/s printing speed, 25% printing ratio) 3.09 (5.58) A (at 100 mm/s printing speed, 25% printing ratio) ( ): Peak
	For motor	24 VDC ± 5%, 1.0 A maximum
	For logic	5 VDC $\pm$ 5%, 0.5 A maximum
Weight		Mechanism: approximately 290 g. Interface board: approximately 100 g
Dimensions	Mechanism Interface board	159 (W) $\times$ 48 (D) $\times$ 28.0 (H) mm (excluding connector) 140 (W) $\times$ 89 (D) $\times$ 24.0 (H) mm

(Continued)

# FTP-641MCL101/102

#### (Continued)

Item		Specifications
Thermal head life		Pulse durability: 1 × 10 <sup>8</sup> pulse/dot (using Fujitsu Takamisawa's standard driving method)  Wear resistance: 50 km (at 25% printing ratio)
Environmental conditions	Operating temperature	+5 to +40°C*3
	Operating humidity	20 to 85% RH (no condensation)
	Storage temperature	−20 to +60°C (excluding paper)
	Storage humidity	5 to 95% RH (no condensation)
Detection	Head temperature	By thermistor (applied energy control, abnormal temperature detection)
	Paper out/Mark detect	By photointerrupter (command set)
	Head-up	By microswitch
Paper width		114 <sup>+0</sup> mm
Recommended thermal sensitive paper*5		1 ply paper in roll : FTP-040P0020 Thicker paper in roll : FTP-040PJ102*4

<sup>\*1:</sup> The data to be printed is automatically read out by the printer driver equipment memory (host system frame memory). The communication is parameter transfer.

<sup>\*2:</sup> At 25°C, maximum applied voltage, minimum head resistance, specified paper, stable printing ratio.

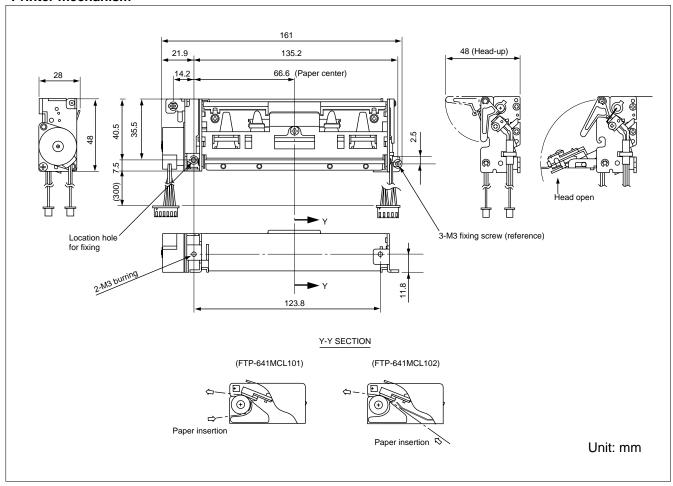
<sup>\*3:</sup> Temperature range for guaranteed printing density. It can operate at 0 to +40°C.

<sup>\*4:</sup> Printer mechanism FTP-641MCL102 is to be used.

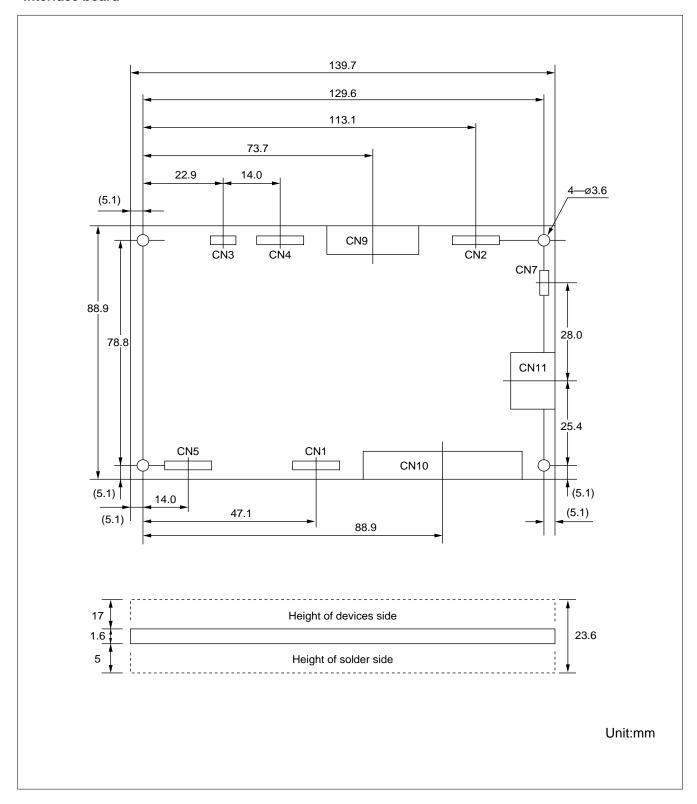
<sup>\*5:</sup> Please contact us for other thermal papers.

#### **■ DIMENSIONS**

#### **Printer mechanism**



#### Interface board



## **■ INTERFACE, COMMAND, OPTIONS**

Please refer to the FTP-621DCL002/012 DATA SHEET for Interface, Command, and Options.

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