

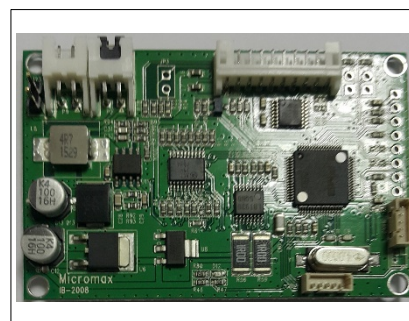
Interface Board for Thermal Printer

Model No: IB-2008

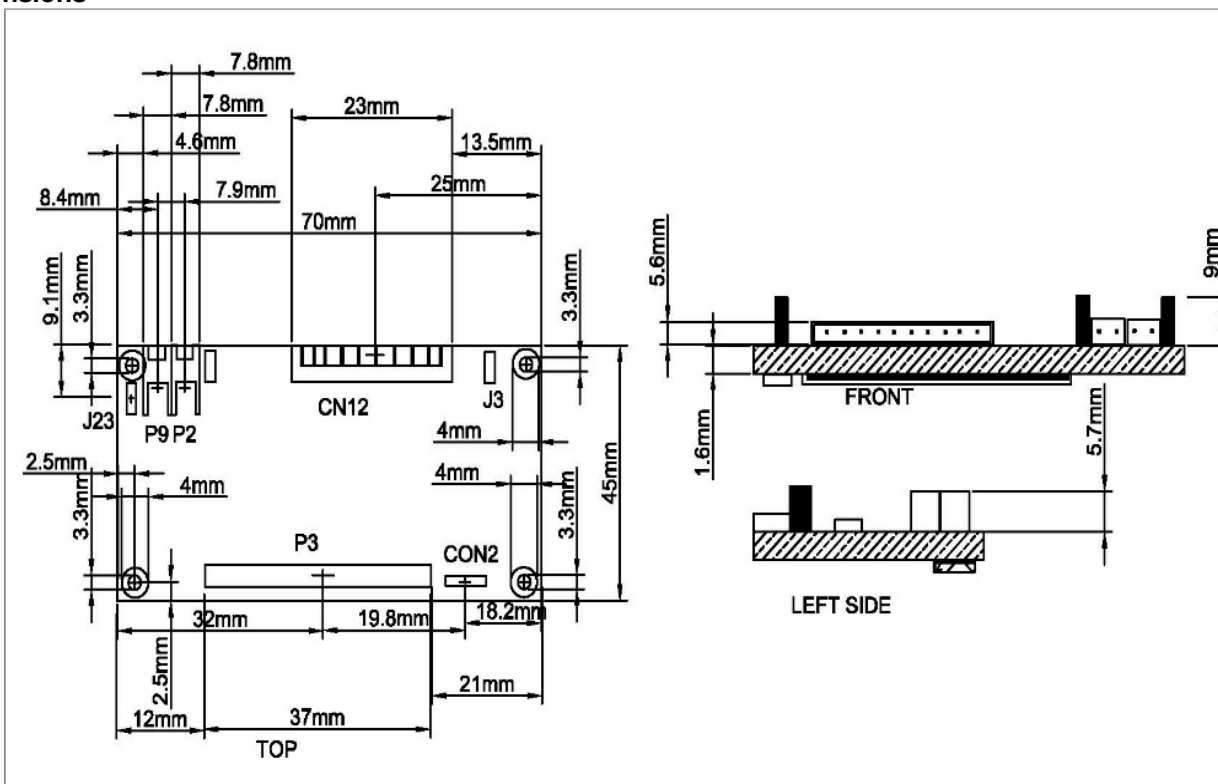
Supported Print Head: FTP-628MCL103

Highlight

- Support operating voltage: 12-24V
- Printing speed up to 60mm/s(64 dots per line)
- RS-232 communication speed up to 115200bps
- Support for USB2.0
- Compatible with ESC/POS command
- Supports bar code and graphics
- Supported Fonts: ISO8859, ISO8859-2, Traditional Chinese(Big-5)
- Support Cutter Board (CB-1000)
- Support Paper Near End
- Windows®2000/XP, Windows 7, Linux drivers
- Operating temperature: 14 to 140 °F (--10 to 60 °C)
- FCC Class B (Target Spec.)
- ESD: 4KV Contact, 8KV Air
- RoHS Compliant



■ Dimensions



■ **Control circuit board connector types**

Symbol	Name	Function
P3	Print Head	Thermal Print Head Connector
P9	Power	12-24V DC Power Input
P2	Power	Power Switch Connector
CN12	USB/RS232	USB/RS232 Input
CON2	Keypad	Keypad Connector
CON66	PE	Paper near end sensor

■ **Connector for Pin Assignment**

1. P3: Thermal printer head (30 pin FPC connector pitch1.0mm,90 degree)

No	Signal	Description
1	PHK	Cathode for photo Interrupter.
2	VSEN	Paper sense power.
3	PHE	Emitter for photo interrupter.
4	SW	Platen release switch.
5	SW	Platen release switch.
6	VH	TPH/Head drive power.
7	VH	TPH/Head drive power.
8	DI	Data in.
9	CLK	Clock.
10	GND	Head ground.
11	GND	Head ground.
12	Strobe6	Strobe6.
13	Strobe5	Strobe5.
14	Strobe4	Strobe4.
15	VDD	Logic Power.
16	TM	Thermistor.
17	TM	Thermistor.
18	Strobe3	Strobe3.
19	Strobe2	Strobe2.
20	Strobe1	Strobe1.
21	GND	Head ground.
22	GND	Head ground.
23	LATCH	Data latch (Low Active).
24	DO	Data out.
25	VH	Head Drive power.
26	VH	Head Drive power.
27	MTA	Excitation signal A.
28	MT/A	Excitation signal /A.
29	MTB	Excitation signal B.
30	MT/B	Excitation signal /B.

2. P9: Power Input(2 pin wafer connector pitch 2.5mm)

No	Signal	I/O	Description
1	DC Input	Power	12-24V Power Input
2	GND	Power	Ground

3. P2: Power Switch Connector (2 pin wafer connector pitch 2.5mm)

No	Signal	I/O	Description
1	DC Input	Power	DC Power Input
2	Load	Power	Load

4. CN12: USB/RS232 (10 pin wafer connector pitch 2.0mm)

No	Signal	I/O	Contents
1	GND	Power	Ground
2	D+	I	USB Data +
3	D-	I	USB Data -
4	USB-VCC	Power	USB VCC 5V+
5	TXD	O	RS232 TX
6	CTS	I	RS232 CTS
7	RXD	I	RS232 RX
8	RTS	O	RS232 RTS
9	NC	NC	NC
10	GND	Power	3.3V DC input.

5. CON2: Cutter(5 pin wafer connector pitch1.25mm)

No	Signal	I/O	Description
1	GND	Power	Ground
2	IN1	O	Motor Driver IN1
3	IN2	O	Motor Driver IN2
4	Sleep	O	Motor Driver Sleep
5	NC	I	NC

6. CN66: Paper Near End(5 pin wafer connector pitch1.25mm)

No	Signal	I/O	Description
1	GND	Power	Ground
2	SDA	I/O	Sensor SDA
3	SCL	I/O	Sensor SCL
4	INT	I	Sensor Interrupt
5	+5V	Power	DC 5V Power output

■ **LED Status Indicator**

D12: 8.5V Power(Green)

■ Specifications

Model Name	IB-2008				
Printing Method	Thermal Line Printing				
Print Speed	60mm/s(64 dots / line)				
Command	Compatible with ESC/POS commands				
Character Fonts ※	ISO8859-1		ISO8859-2		Chinese(Big5)
	9x17	12 x 24	9x17	12 x 24	24x24
	Afrikaans, Albanian, Catalan, Danish, English, Faeroese, Finnish, French, German, Icelandic, Indonesian, Irish, Italian, Malayan, Norwegian, Portuguese, Rhaeto-Romanic, Scottish Gaelic, Spanish, Swahili, Swedish, Tagalog		Bosnian, Croatian, Hungarian, Polish, Slovak, Slovenian, Serbo-Croatian		Big-5
Density	203 dpi				
Bar Code	UPC-A, UPC-E, EAN13, EAN8, CODE39, ITF(Interleaved 2 of 5), CODABAR, CODE93, CODE128, QR Code				
Detectors	Paper end, Cover, Print head over heat.				
Memory	Flash		4MB		
	RAM		16KB		

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■ Environmental Specifications:

Item	Min	Typ.	Max.	Unit
Operating Temp	-10(14)		60(140)	°C (°F)
Storage Temp	-20(-4)	36(97)	85(185)	°C (°F)

■ Physical Specifications:

Dimensions(L x W x H)	70x 45 x 12 mm (2.76" x 1.77" x 0.472")
Net Weight	20g (0.7 oz)

■ **Ordering Information**

Name	Part Number	Description
2" Interface Board	IB-2008	2" Thermal Printer Interface Board for FTP-628MCL103 Series

Functions
Full-Cut
Paper Near-End

Firmware Ver. No.
161123

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