Thermal Printer
Easy Paper Operation Mechanism

Low Voltage

Thermal Printer Mechanism
LTPH245

POS/ECR | EFT/POS | Measuring Instrument | Portable Printer | Medical Equipment

- Max printing speed: 62.5mm/sec
- Easy paper operation
- Platen latch function
- Operating temperature: -30℃ to 70℃

LTPH245

Model		LTPH245
Printing	Method	Thermal line dot system
	No. of dots/line	384
	Resolution (dpi)	8dots/mm
	Width (mm)	48
	Paper feed pitch (mm)	0.125
	Speed (mm/s)	25.0 @ 5.0V, 56.25 @ 7.2V, 60 @ 8.0V
Detection	Head temperature	by thermistor
	Platen position detection	by mechanical switch
	Out-of-paper detection	by photo interrupter
Dimensions (WxDxH) mm[1]		76.8x38.0x16.0
Weight (g)[2]		46
Power Supply	Operating voltage[3]	Vdd line: 4.5V to 5.5V; Vp line: 4.2V to 8.5V
	Current consumption (average)[4]	2.1 Max. @5V, 3.0 Max. @7.2V, 3.3 Max. @8.0V
Service life	Pulse activation	min. 100 million pulses (12.5% print ratio)
	Abrasion resistance	50 km or more
Operating temperature (℃)		-5 to 50
Storage temperature (℃)		-25 to 60
Paper	Width (mm)	58^{+0}_{-1}
	Path	Curve
	Paper feed force	0.49N (50gf) or more
	Paper hold force	0.78N (80gf) or more
	Thickness	75μm

[1] Dimensions exclude those of the lever and platen frame; [2] Weight includes all parts; [3] Equivalent to four through six Ni-Cd or Ni-MH batteries, or two Lithium-ion batteries; [4] When the number of simultaneously activated dots is specified as 64

CPU

Model		PTD50P01
Thermal printer		LTPH245
Package form		120pin QFP
Operating voltage (V)		Vp: 4.2V to 8.5V, Vcc: 5V +/- 10%
Input frequency (MHz)		5 +/- 0.5%
Configuration		C-MOS LSI
Input control method		Parallel (Centronics), Serial (TTL Level)
Current Consumption[2]		
	Standby	30mA max.
	Printing	100mA max.
Character matrix (H x W dots)		16dots characters : 16 x 8, 16 x 16 24dots characters : 24 x 12[1], 24 x 24[1]
Operating temperature (℃)		-5 to +50

[1] The default value is changeable through commands
[2] Vcc = 5V, 25℃, no error, and when input/output terminal is not connected

Interface

Model		IFH002-01B
CPU		PTH01P02
Thermal printer		LTPH245
Operating voltage (V)		Vp: 4.2 to 8.5
Character matrix (H x W dots)		16 dots characters : 16 x 8, 16 x 16 24 dots characters : 24 x 12[1], 24 x 24[1]
Character type	Extended graphics character set	Yes
	Downloaded character	Yes
	Optional font	Yes
	User-defined character	Yes
Input control method		Parallel (mod. Centronics), Serial (TT Level)
Operating temperature (℃)		0 to +50
Storage temperatuer (℃)		-20 to +60
Dimensions (W x D x H mm)		70.0 x 70.0 x 11.3
Weight (g)		29

[1] The default value is changeable through commands
[2] Vcc = 5V, 25℃, no error, and when input/output terminal is not connected

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