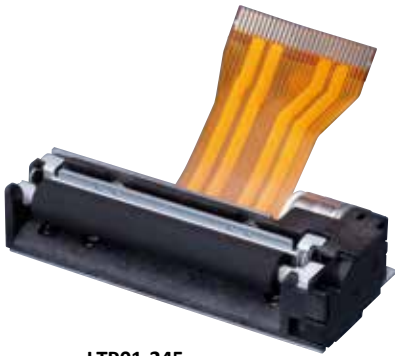


Thermal Printer Mechanism

LTP01 Series



- Max. printing speed: 75mm/sec
- Compact and light-weight
- Compatible model with LTPZ245 (Horizontal)



LTP01-245

Model		LTP01-245	
		Without platen detecting switch	With platen detecting switch
Printing	Method	Thermal line dot printing	
	Number of dots/line	384	
	Resolution (dots/mm)	8	
	Paper width (mm)	58 ⁺⁰ ₋₁	
	Printing width (mm)	48	
	Speed (mm/sec) max	75	
	Paper path	Curved	
Detection	Head temperature	By thermistor	
	Platen position	—	By mechanical switch
	Out of paper	By photo interrupter	
Power supply (V)	Operation voltage (Vdd)	3.0 to 3.6 / 4.75 to 5.25	
	Operation voltage (Vp)	4.75 to 9.5	
Peak current (A)	Head	3.76 (9.5V / 64 dots)	
	Motor	0.6	
Service Life	Pulse activation (pulse)	100 million	
	Abrasion resistance (km)	50 ^{*1}	
Operating temperature (°C)		0 to 50	
Dimensions (W×D×H mm)		69.8 × 32.7 × 15.3 ^{*2}	70.3 × 32.7 × 15.3 ^{*2}
Mass (g)		Approx. 44	

*1 Use recommended thermal papers. *2 Excluding protrusion.

Thermal Printer Mechanism

LTP02 Series



- Max. printing speed: 100mm/sec
- Extremely compact design for mobile terminal
- Light weight only 28g



LTP02-245

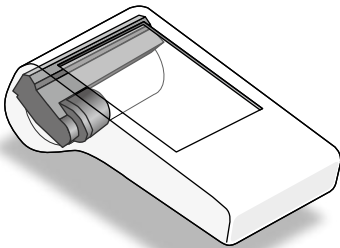
Model		LTP02-245		
		Standard model (LTP02-245-13x)	High speed model (LTP02-245-A3)	Low energy model (LTP02-245-C1)
Printing	Method	Thermal line dot printing		
	Number of dots/line	384		
	Resolution (dots/mm)	8		
	Paper width (mm)	58 ⁺⁰ ₋₁		
	Printing width (mm)	48		
	Speed (mm/sec) max	100	120 (9.0V)	85
	Paper path		165 (12.0V)	
Detection	Head temperature	Curved		
	Out of paper	By thermistor		
Power supply (V)	Operation voltage (Vdd)	By photo interrupter		
	Operation voltage (Vp)	3.0 to 3.6		
Peak current (A)	Head	5.5 to 9.5	5.5 to 9.5, 10.8 to 12.6	3.0 to 4.2
	Motor	2.64 (9.5V / 45 dots)	3.02 (12.6V / 48 dots)	5.99 (4.2V / 129 dots)
Service Life	Pulse activation (pulse)	0.6	0.6	1.0
	Abrasion resistance (km)	100 million	50 million	100 million
Operating temperature (°C)		50 ⁺¹		
Dimensions (W×D×H mm)		-10 to 50		
Mass (g)		67.3 × 18.1 × 30.0 ⁺²		
		Approx. 28		

*1 Use recommended thermal papers. *2 Excluding protrusion.

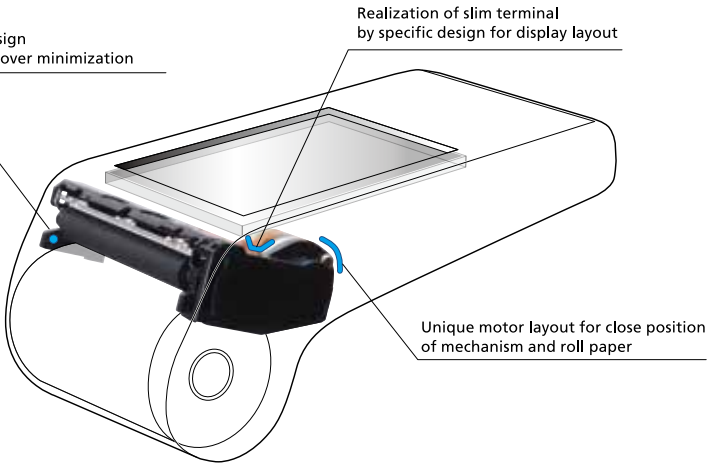
CPU

Model	PT02-5SU	PT02-3U
Thermal printer	LTP02-245-13x	LTP02-245-C1
Package form	48pin LQFP	
Operating voltage (V)	Vp: 5.5 to 9.5	Vp: 3.3 to 4.2
	Vcc: 3.0 to 3.6	Vcc: 3.0 to 3.6
Input frequency (MHz)	16 ± 0.01%	
Configuration	C-MOS LSI	
Communication interface	USB input / output (Device / Printer class / Full speed)	
Character type	ASCII Code	
Dimensions (W×D×H mm)	9.0 × 9.0 × 1.5	

Smart design to contribute reducing terminal size!



Hold design for roll cover minimization



Realization of slim terminal by specific design for display layout

Unique motor layout for close position of mechanism and roll paper