

5. General Specification

Table 5-1 General Specification

(1/2)

Item		Specifications	
Printing	Printing method	Direct line thermal printing	
	Resolution	203dpi (8dots/mm)	
	Printing speed	110mm/s	
	Valid printing width	48mm (384dots)	
Interface	Bluetooth	Bluetooth Spec	Bluetooth Ver 3.0/4.0 [BLE] Dual Mode
		Frequency range	2.4GHz ISM band
		Data transmission rate	115200bps adjustable
		Data bit	8 data bit fixed
		Parity bit	No parity fixed
		Stop bit	1 stop bit fixed
		SSP	Compatible
		USB, Bluetooth, Wifi (Optional)	
Power saving	Sleep mode	YES	
Memory	Flash	4MByte	
Character Set	Font	Alphanumeric: 9x17, 12x24 dots Kanji: 24x24 dots	
Barcode Symbologies	1D	UPC-A, UPC-E, EAN8, EAN13, CODE39, ITF, CODE128, CODE93	
	2D	QR code, PDF417	
Graphics		Support bitmap printing with different density and user defined bitmap printing	
Detection	Sensors	Printer cover open sensor, Paper-out sensor, Black mark sensor, Label gap detection	
LED lamp	Power lamp	Green	
	Error lamp	Red	

Table 5-1 General Specification(Continued)

(2/2)

Item		Parameter
Charging	USB charge	
	Output DC 5V $\overline{\text{---}}$ 1A	
Power supply	Battery	1300mA 3.7V rechargeable battery pack
	Battery operating time	keep working for about 1 hour(printing full lines of characters)
LCD		128 x 64 dots with Blue Backlight
MSR (Single Head)	Format	ISO 7810, ISO 7811, ISO7812 1st, 2nd and 3rd Track/ JISII Track Reading
	Security	AES or 3DES encryption. DUKPT Key Management
Paper	Paper type	Thermal paper
	Paper width	$57.5 \pm 0.5\text{mm}$
	Paper thickness	$0.053\text{mm} \leq X \leq 0.12\text{mm}$
	Roll paper diameter	$13\text{mm} \leq \varnothing \leq 40.5\text{mm}$
	Recommended paper	P220AG, PD450, FD200, Alpha 400-2.1
Physical characteristics	Operation condition	-5°C to 50°C, 25% to 85%RH
	Storage condition	-30°C to 60°C, 5% to 95%RH
	Dimension	84.4(W) x 126.8(D) x 51.5(H) mm
	Weight	237g (including battery pack)
Reliability	TPH	50km(not more than 12.5% printing density)/100 million pulses
Software	Emulation	ESC/POS
	Driver	Win xp/Win 7/Win 8/Win 10/Linux
	SDK	WinCE, Win Mobile, Android, IOS, Linux

**WARNING:**

Please use the recommended thermal paper or same quality paper, otherwise it will influence the printing quality and decrease the thermal print head life.

Please use at a room temperature if you want to set the print density to “Special”.

Some types of the paper are not suitable for use in low-temperature environment.