

User Manual



RT800i+ SERIES

Thermal Label Printer



User Manual: RT800i Pro Series

Version : Ver. A.1

Issue Date : 2024/10/25

P/N : 920-01A111-00

APPENDIX—PRODUCT SPENIFICATIONS

Model Name		RT823i Pro	RT833i Pro	RT863i Pro
Print Method		Thermal Transfer / Direct Thermal		
Resolution		203 dpi (8 dots/mm)	300 dpi (12 dot/mm)	600 dpi (24 dots/mm)
Print Speed		Up to 8 ips (203 mm/s)	Up to 6 ips (152 mm/s)	Up to 3 ips (76.2 mm/s)
Print Width		4.25" (108 mm)	4.16" (105.7 mm)	4.16" (105.7 mm)
Print Length		Min. 0.16" (3 mm)** ; Max. 279.53" (7,100 mm)	Min. 0.12" (3 mm)** ; Max. 350" (8,890 mm)	Min. 0.12" (3 mm)** ; Max. 100" (2,540 mm)
Processor		32-bit RISC CPU		
Memory	Flash	16 GB		
	SDRAM	512 MB		
Sensor Type		Adjustable reflective sensor (full range). Fixed transmissive sensor. Central aligned		
Media	Type	Continuous form, gap labels, black mark sensing, and punched hole; label length set by auto sensing or programming		
	Width	Min. 0.79" (20 mm) – Max. 4.65" (118 mm)		
	Thickness	Min. 0.0024" (0.06 mm) – Max. 0.008" (0.2 mm)		
	Label roll diameter	Max. 5" (127 mm)		
	Core diameter	1" (25.4 mm), 1.5" (38.1 mm)		
Ribbon	Types	Wax, wax/resin, resin		
	Length	Max. 984" (300 m)		
	Width	Min. 1.18" (30 mm) – Max. 4.33" (110 mm)		
	Ribbon roll diameter	2.67" (68 mm)		
	Core diameter	1" (25.4 mm)		
Printer Language		EZPL, GEPL, GZPL, GDPL auto switch		
PDF Documents		Supports to print PDF documents		
Software	Label design tool	GoLabel II (for EZPL only) (Windows)		
	Management tools	GoTools (Windows / Android / iOS)		
	tools	GoUtility (Windows)		
	APP	GoAPP (Android / iOS)		
Driver		Windows 7, Windows 8 & 8.1, Windows 10, Window11, Windows Server 2008 R2, 2012, 2012 R2, 2016, 2019, 2022, MAC, Linux		
SDK		Win CE, .NET, Windows 7, Windows 8 & 8.1, Windows 10, Windows 11, Android, Mac, iOS		
Resident Fonts	Bitmap Fonts	6, 8, 10, 12, 14, 18, 24, 30, 16X26 and OCR A & B 0°, 90°, 180°, 270° rotatable, single characters 0°, 90°, 180°, 270° rotatable 8 times expandable in horizontal and vertical directions		
	TTF Fonts	(Bold / Italic / Underline) 0°, 90°, 180°, 270° rotatable Internal TTF Fonts x5 : Traditional Chinese, Simplified Chinese, Japanese, Korean, Western languages		
Download Fonts	Bitmap Fonts	0°, 90°, 180°, 270° rotatable, single characters 0°, 90°, 180°, 270° rotatable		
	Asian Fonts	16x16, 24x24, Traditional Chinese (BIG-5), Simplified Chinese (GB2312), Japanese (S-JIS), Korean (KS-X1001)		
	TTF Fonts	0°, 90°, 180°, 270° rotatable and 8 times expandable in horizontal and vertical directions (Bold / Italic / Underline) 0°, 90°, 180°, 270° rotatable		
Barcodes	1-D Bar Codes	China Postal Code, Codabar, Code 11, Code 32, Code 39, Code 93, Code 128 (subset A, B, C), EAN-8/EAN-13 (with 2 & 5 digits extension), EAN 128, FIM, German Post Code, GS1 DataBar, HIBC, Industrial 2 of 5, Interleaved 2-of-5 (I 2 of 5), Interleaved 2-of-5 with Shipping Bearer Bars, ISBT-128, ITF 14, Japanese Postnet, Logmars, MSI, Postnet, Plessey, Planet 11 & 13 digit, RPS 128, Standard 2 of 5, Telepen, Matrix 2 of 5, UPC-A/UPC-E (with 2 or 5 digit extension), UCC/EAN-128 K-Mart, Random Weight and Pharmaco		
	2-D Bar Codes	Aztec code, Code 49, Codablock F, Datamatrix code, MaxiCode, Micro PDF417, Micro QR code, PDF417, QR code, TLC 39, GS1 Composite, DotCode, Marco PDF 417		
Code Pages		Codepage 437, 737, 850, 851, 852, 855, 857, 860, 861, 862, 863, 865, 866, 869 Windows 1250, 1251, 1252, 1253, 1254, 1255, 1257 Unicode UTF8, UTF16BE, UTF16LE		
Graphics		Resident graphic file types are BMP and PCX, other graphic formats are downloadable from the software		
Interfaces		USB 2.0 (Type B)		
		Serial port (RS-232)		
		Ethernet 10/100 Mbps (IEEE 802.1X)		
		USB Host x 2 (Type A)		
Wireless Connection		Supports commercially available Linux USB dongle ***		
Control Panel		Backlight 3.2" Touch Screen LCD		
		1 Power on/off button		
		1 Control key: FEED / PAUSE / CANCEL		
Real Time Clock		1 Calibration button at rear panel		
Power		Standard		
Environment	Operation temperature	External auto switching power supply		
	Storage temperature	Input: AC 100-240V, 50-60Hz Output: DC 24V, 2.5A		
Humidity	Operation	41°F to 104°F (5°C to 40°C)		
	Storage	-4°F to 140°F (-20°C to 60°C)		
Agency Approvals	Operation	25-85%, non-condensing		
	Storage	10-90%, non-condensing		
Agency Approvals		CE (EMC), FCC Class B, ICES-003, CB, UKCA, cULus, BSMI, CCC, Energy Star ****		
Dimension	Length	280 mm (11.0")		
	Width	215 mm (8.46")		
	Height	193 mm (7.6")		
	Weight	2.7 Kg (5.9 lbs), excluding consumables		