



WS4 Series

Compact Label Printer

FEATURES

- /// User Friendly Operation and Serviceability
- /// Printing Resolution of 203 / 305 dpi
- /// Thermal Transfer & Direct Thermal models
- /// Prints Labels, Receipts, Tags and Wristbands
- /// Long 300m ribbon

SPECIFIED FOR

- /// Logistics
- /// General Office
- /// Manufacturing
- /// Transportation
- /// Government
- /// Healthcare
- /// Retail
- /// Entertainment

WS4 Printer Series

PRINTING SPECIFICATION		WS408	WS4412
Printing Method		Direct Thermal and Thermal Transfer models	
Print Resolution, dots/mm (dpi)		8 dots/mm (203dpi)	12 dots/mm (305dpi)
Max. Print Area	Width, mm (inch)	108mm (4.25")	105.7mm (4.17")
	Length, mm (inch)	999mm (39.33")	999mm (39.33")
Print Speed, mm/sec (ips)		Up to 152.4mm/sec (6 ips)	Up to 102mm/sec (4 ips)
CPU		ATMEL 9260 RISC	
Printer Memory		Flash ROM: 16MB, RAM: 32MB	

CONSUMABLES SPECIFICATION			
Sensor Type		I-Mark Sensor (Reflective), Label Gap Sensor (Transmissive), Label Taken sensor (Dispenser model)	
Media Type		Roll or fan-fold die cut labels, Plain paper face stock, Synthetics and Continuous stock	
Media Thickness		0.06 – 0.19mm (0.002" – 0.007")	
Label Shape	Diameter	Roll Max. outside diameter: Ø 127mm (5"), Core diameter: 25.4mm / 38mm (1" / 1.5")	
	Wind Direction	Face-in/out	
Label Size	Continuous	Width	24 – 115mm / 22.4 - 115mm
		Length	8 - 997mm / 8 - 997mm
	Tear-Off	Width	22.4– 115mm / 22.4 – 115mm
		Length	8 – 997mm / 8 – 997mm
	Cutter	Width	22.4 – 115mm / 12 – 60mm
		Length	19.4– 993mm / 19.4 – 993mm
	Dispenser	Width	22.4 – 115mm / 22.4 – 115mm
		Length	23.4 – 150.4mm / 23.4 – 150.4mm
Ribbon TT model	Size	Max Length 300m. Centre justified	
	Core Diameter	Ø 12.7mm for 100m ribbon / 25mm for 300m ribbon	
	Wind Direction	Face-out / Face -in	

FONTS / SYMBOLOGIES		
Fonts	Standard Fonts	Bitmap Fonts SZPL, SEPLII AND SDPL
	Scaleable Fonts	TrueType Fonts SZPL, SEPLII AND SIPL
	Rasterized Fonts	CG Times, CG Triumvirate
Barcode	1D Barcode	UPC-A/E, JAN/EAN-8/13, Code 39, Code 93, Code 128, GS1-128 (UCC /EAN128), Codabar (NW-7), Interleaved 2 of 5, MSI, GS1 Databar (RSS14) Truncated, Stacked, Limited, Expanded, Composite JAN/EAN-8/13, Composite UPC A/E, Postnet
	2D Barcode	PDF417 including Micro pdf, MAXI Code, QR Code, GS1 Data Matrix (ECC200) AZTEC
Print Rotation	Character Data / Barcode	0°, 90°, 180°, 270°

COMMUNICATION INTERFACES	
Interfacing	USB + LAN models, USB + RS232C + LAN models, Optional Wireless LAN, Optional Bluetooth
	LAN protocols: ARP, IP, ICMP, UDP, TCP, DHCP, Socket, LPR, SNMP
Command languages (Emulations)	SBPL SATO Barcode Printer Language, SZPL, SEPL, SDPL, SIPL

OPERATING CHARACTERISTICS		
Power Requirements	Input voltage adapter: AC100V-240V (auto switching)/60W (peak) – Input voltage printer: 19V/3A	
Environment	Operating	5 – 40°C / 25 – 85% RH (without condensation)
	Storage	-40 – 60°C / 10 – 90% RH (without condensation)
Dimension	TT Model (W x D x H): 220.6 x 278.5 x 188.3mm	DT Model (W x D x H): 183.8 x 222.6 x 166mm
Weight	TT model (approx 2.3kg,	
Indicators	2 x 2-colour LED	

MISCELLANEOUS	
Certifications	FCC, UL, CSA, CCC, CE, ROHS compliant, Energy Star™
Self-diagnostics	Error detection functions, Printhead overheat function. Thermal printhead and Platen roller can be replaced without tools

OPTIONS	
Accessories	Full Cutter, Cutter, Dispenser, Real Time Clock module, Wireless LAN, Bluetooth Interface
	Label Design Software, External USB memory max 16GB

SATO SUPPORT	
	Full range of SATO-manufactured labels, tags and ribbons. SATO Value Support after-sales maintenance