



WS4



Direct Thermal



Thermal Transfer

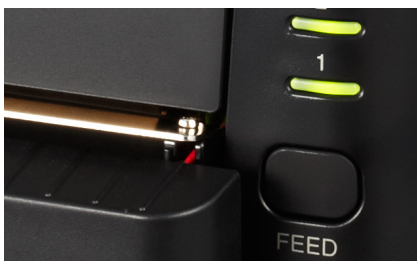
Maximising performance, versatility and investment

SATO, Beyond Expectations

World standard desktop printers for multiple applications

EASY OPERATION

- Wide-open access
- One-touch control
- Simple label setting
- Clear User indicators
- Easy maintenance



FLEXIBLE MEDIA

- 4" Direct & Thermal Transfer models
- Ribbon up to 300M
- Face-in/Face-out media
- Adjustable I-mark sensor
- Auto-calibration



EASY INTEGRATION

- 5 Emulations as standard
- Bluetooth & WLAN options
- Cutter, Dispenser, Offwinder options
- Management utilities
- USB firmware upgrade



www.satoeurope.com

WS4 Printer Series

PRINTING SPECIFICATION		WS408	WS412
Printing Method		Direct Thermal and Thermal Transfer models	
Print Resolution, dots/mm (dpi)		8 dots/mm (203dpi)	12 dots/mm (300dpi)
Max. Print Area	Width, mm (inch)	104mm (4.09")	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		32-bit 9260 RISC	
Printer Memory		Flash ROM: 16MB, RAM: 32MB User Memory: 3MB External USB User Memory: 2GB	

CONSUMABLES SPECIFICATION			
Sensor Type		Adjustable I-Mark Sensor (Reflective), Label Gap Sensor (Transmissive), Label Taken sensor, Head Open sensor	
Media Type		Roll or fan-fold die cut labels, Plain paper face stock, Continuous stock, Tag, Ticket	
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 / Face out	
Label Size	Continuous	Width	22.4 – 115mm
		Length	8 - 997mm
	Tear-Off	Width	22.4– 115mm
		Length	8 – 997mm
	Cutter	Width	22.4 – 115mm
		Length	DT: 35 – 993mm TT:19.4 - 993mm
	Dispenser	Width	22.4 – 115mm
		Length	DT: 35 - 150.4mm TT: 23.4 – 150.4mm
Ribbon TT model	Length	74M to 300metres. Centre justified	
	Core Diameter	Ø 12.7mm for 74/91/100m ribbon 25mm for 300m ribbon	
	Wind Direction	Face-in / Face -out	

FONTS / SYMBOLOGIES		
Internal Fonts. Unicode supported	Standard Fonts	Bitmap Fonts SBPL, SZPL, SEPLII AND SDPL: XS, XU, XM, XB, XL, OCR A, OCR B,
	Scaleable 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: Omni, Truncated, Stacked, Stacked Omni, Limited, Expanded, Expanded stacked. UPC Add-on, Postnet, Industrial 2 of 5. Composite: JAN/EAN-8/13, UPC A/E, GS1 Databar, Truncated and Stacked.
	2D Barcode	PDF417 including Micro pdf, MAXI Code, QR Code, GS1 Data Matrix (ECC200)
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, HTTP, DHCP, Socket, LPR, SNMPv2.
Command languages (Printer language 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 225.9 x 166mm
Weight	TT model: 2.48Kg. DT model: 1.74Kg	
Indicators	2 x 3-colour LED	

MISCELLANEOUS	
Certifications	FCC, UL, CSA, CCC, CE, TUV GS, EAC, ROHS compliant.
Self-diagnostics	Error detection functions, Printhead overheat function, Printhead element check
Ease of service	Thermal printhead and Platen roller easily replaced

OPTIONS & MANAGEMENT	
Accessories	Dispenser, Full cutter, Real Time Clock Module, Wireless LAN, Bluetooth Interface, Large Media Roll Offwinder
Printer management	SATO Printers Settings Utility for printer, network & Wireless configuration. SNMPv2.

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