



WS408/ WS412 Thermal Printer



The WS4 Thermal Printer

Compact Label Printer

Features

- User-Friendly Operation and Serviceability
- Printing Resolution of 203 / 305 dpi
- Thermal Transfer and Direct Thermal Models
- Standard Ethernet
- Prints Labels, Receipts, Tags and Wristbands
- Long 300m Ribbon - Face-in/out
- Emulations (SZPL, SEPL, SDPL, SIPL)
- Wireless Operation via Bluetooth™ or Wi-Fi™

Application

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





GENERAL SPECIFICATIONS / WS400 Series

PRINTING SPECIFICATIONS		WS408	WS412
Printing Method		Direct Thermal (DT) and Thermal Transfer (TT) Models	
Print Resolution		203 dpi (8 dots/mm)	305 dpi (12 dots/mm)
Maximum Print Area	Width	4.25" (108.0 mm)	4.17" (105.7 mm)
	Length	39.33" (999.0 mm)	39.33" (999.0 mm)
Print Speed		6 ips (Up to 152.4mm/sec)	4 ips (Up to 102.0 mm/sec)
Printer Memory		Flash ROM: 16MB, RAM: 32MB	
Dimension		TT Model: W: 8.68" (220.6 mm) D: 10.96" (278.5 mm) H: 7.41" (188.3 mm)	
		DT Model: W: 7.23" (183.8 mm) D: 8.76" (222.6 mm) H: 6.53" (166.0 mm)	
Weight		DT Model: 3.88 lbs. (1.76 kg) / TT Model: 5.29 lbs. (2.4 kg)	

MEDIA SPECIFICATIONS

Sensor Type

Adjustable 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

0.002" – 0.007" (0.06 – 0.19 mm)

Media Roll Diameter

Diameter

Roll Max. Outside Diameter: 5.0" (127.0 mm),
Core Diameter: 1.0" / 1.5" (25.4 mm / 38.0 mm)

Wind Direction

Face-in/out

Media Width

0.88" (22.4 mm) to 4.52" (115.0 mm)

Media Length (Linerless)

Continuous

0.31" (8.0 mm) to 39.25" (997.0 mm)

Tear-Off

0.31" (8.0 mm) to 39.25" (997.0 mm)

Cutter

0.76" (19.4 mm) to 39.09" (993.0 mm)

Dispenser

0.92" (23.4 mm) to 5.92" (150.4 mm)

Ribbon (Thermal Transfer Model)

Length

Max. 984.2 ft (300m) Center justified

Core Diameter

0.5" (12.7 mm) for 100m ribbon / 1.0" (25.0 mm) for 300m ribbon

SATO Genuine Consumables

For maximum print quality and optimum use, SATO recommends the use of SATO genuine consumables.

COMMUNICATION INTERFACES

Standard

USB (Type A, Type B), LAN, RS232C

LAN Protocols

UDP, TCP, DHCP, LPR, SNMP, IPv4, HTTP

Emulations

SBPL SATO Barcode Printer Language, SZPL, SEPL, SDPL, SIPL

Wireless

Optional WLAN, 802.11 b/g/n, Optional Bluetooth, V2.1 + EDR

BARCODE SYMBOLOGIES

Linear

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 Symbologies

PDF417 including Micro pdf, MAXI Code, QR Code, GS1 Data Matrix (ECC200) AZTEC

Print Rotation / Character Data (Barcode)

0°, 90°, 180°, 270°

FONT SPECIFICATIONS

Internal Fonts

10 Bitmap SATO Fonts, 15 Scalable SATO Fonts, Multi-National Language Support (47 Languages/Unicode), Single and Double Byte Fonts (Korean, Chinese, Japanese)

OPERATING & ENVIRONMENT CHARACTERISTICS

Environment

Operating Temperature

41 to 104°F (5 to 40°C), 25 – 85% RH, Non- condensing

Storage Temperature

-40 to 140°F (-40 to 60°C), 10 – 90% RH, Non- condensing

Status Indicators

2 Tricolor LEDs (red, green, orange)

Power Requirements

Energy Star™ Input voltage adapter: AC100V-240V (auto switching) / 60W (peak) – Input voltage printer: 19V/3A

OPTIONS

Dispenser, Full cutter, Real Time Clock Module, Wireless LAN, Bluetooth Interface, External Media Stand

MISCELLANEOUS

Certifications

FCC, UL, CSA, CCC, CE, ROHS compliant, Energy Star™

User Serviceable

Thermal printhead and platen roller can be replaced without tools

SATO SUPPORT

Ensure top quality and long-lasting performance with SATO's Onsite Service Plans and Depot Service Contracts.

Note: Specifications subject to change without notice

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