SATO
Powered **On Site**/

PW4NX Series

Fast and Reliable
4-Inch Mobile Thermal Printer

satoeurope.com

Key features

- Cloud printing enabled using on-board client technologies
- Consistent 6ips (152mm/s) printing with desktop speed equivalence
- Enhanced durability and reliability
- 2.4" Color Display and 80° viewing angles
- Remote management with SOTI and SATO SOS
- Connectivity for Apple iOS, Linux, Android and Windows
- Fast release peeler bar for peel and present
- Tear bar for linerless and receipt applications
- Quick pairing with NFC enabled devices
- Dual CPUs with a 1 GHz processor
- 802.11 a/b/g/n/ac with Bluetooth® 5.0

Fast and Reliable - 4 inch Mobile Thermal Printer

Functionality

High Speed, high quality

- Maximum print speed of 6ips (152 mm/sec) takes the stress out of labelling operations
- High quality printing even when battery level is low
- Emulation Languages: SZPL, SCPL, SIPL, SDPL and STPL

PC-less printing

- AEP (Application Enabled Printing) platform allows for standalone printing
- Connect a barcode scanner* directly to PW4NX

* Scanner must have host mode connection

Durability

Tough against drops, dust and water

- Robust design withstands drop from 7 feet (2.14 meters)*
- IP54 rated: Keeps printer safe from harmful dust that interferes with printer operation
- Splashproof against water from all directions

* Drop test at SATO. Dropping a printer on one side onto a concrete surface from a height of over 2 metres.

Maintainability

Self maintenance

- Easy replacement of wearable parts maximising productivity

Printer monitoring service via cloud*

- Battery asset management
- Device call function
- Visualisation of temperature status
- Remote updates
  * SOS (SATO Online Services) contract required.

SOS SATO Online Services

Usability

A 2.4 inch colour display for higher operability

- Tutorial videos showing how to load labels, replace parts etc

Optional DC/DC Adapter available

Printer can be powered from Fork Lift or Mobile Cart using optional SATO adaptor

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PW4NX Technical Specification

Printer Specification

Printing Method	Direct Thermal
Print Mode	Continuous, Tear-off, Dispenser, Linerless (Linerless Model Only)
Print Resolution	8 dots/mm (203 dpi)
Print Speed	Continuous, Tear-off: 2 to 6ips (51 to 152mm/s)
	Linerless, Dispenser: 2 to 4ips (51 to 102mm/s)
Max. Print Area	Width: 104mm (4 inches)
	Length: 1000mm (39 inches)
Processor	Dual CPUs with a 1 GHz
Printer Memory	8GB ROM, 1GB RAM ; Receive Buffer: 2.95MB
Battery	14.4 V / 2500 mAh (36.00 Wh)

Consumables Specification (Recommended to use printer supplies manufactured or certified by SATO)

Sensor Type		Transmissive Sensor for Gap, Reflective Sensor for I-mark
Media Type		Roll media (face-out wound), Fan-fold media
Media Thickness		58 to 190.5 μm (0.058 to 0.1905 mm)
Roll Diameter		Maximum Outside Diameter: 67 mm (2.6 inches)
Label Size	Continuous	Width: 38 to 111mm (1.5" to 4.4") / 41 to 114 mm (1.6" to 4.5") Including liner
		Length: 13 to 305 mm (0.5" to 12") / 16 to 308 mm (0.6" to 12.1") Including liner
	Tear-Off	Width: 38 to 111mm (1.5" to 4.4") / 41 to 114 mm (1.6" to 4.5") Including liner
		Length: 16 to 305 mm (0.6" to 12") / 19 to 308 mm (0.7" to 12.1") Including liner
	Dispenser	Width: 38 to 111mm (1.5" to 4.4") / 41 to 114 mm (1.6" to 4.5") Including liner
		Length: 16 to 254 mm (0.6" to 10") / 19 to 257 mm (0.7" to 10.1") Including liner
	Linerless (Linerless Model Only)	Width: 38 to 114 mm (1.5" to 4.5")
		Length: 16 to 257 mm (0.6" to 10.1")

Fonts / Symbologies

Internal Fonts	Standard Bitmap	U, S, M, WB, WL, XU, XS, XM, XB, XL, OCR-A, OCR-B
	Scalable Fonts	SATO CG Sleek, SATO CG Stream, 13 SATO Fonts, Multi-national Language Support (47 Languages / Unicode), Single and Double Byte Fonts (Korean, Chinese, Japanese)
	Encoding	Major Latin and Pan-European Code Pages (WGL4), GB18030 (Simplified), KSX1001 (Korean), BIG5 (Traditional), JIS, SHIFTJIS, UTF-8 and UTF-16BE
Barcode	Linear	Code 39, Code 93, Code 128, CODABAR (NW7), EAN(JAN)8/13, GS1-Databar™, GS1-128 (UCC/EAN128), Interleaved 2/5, Industrial 2/5, Matrix 2/5, MSI, Bookland, Postnet™, UPC-A/E
	2D Symbologies	PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, Aztec, QR Code, Micro QR Code and Composite Symbologies

Interface Characteristics and Integration

Standard Interfaces	USB 2.0 High Speed type B mini connector, Bluetooth® Ver.5.0 BLE, NFC, 802.11a/b/g/n/ac Dual Band WLAN (2.4 GHz, 5 GHz), Fast Roaming
Remote Settings	SNMPv3, HTTP (Web Interface)
Supported Printer Protocols	Standard: SBPL (SATO Barcode Printer Language) ; Emulation Languages: SZPL, SCPL, SIPL, SDPL and STPL

Operating Characteristics

Power Requirements		AC100V~AC240V, 50/60 Hz (AC Adapter) ; Output: DC 19V ±5% 2.37A
Environment	Operating	-15 to 50°C/10 to 90% RH (Without Condensation)
	Storage	-25 to 60°C/10 to 90% RH (Without Condensation)
Dimensions (W x D x H)		W 180 x D 195 x H 85 (mm) / W 7" x D 7.67" x H 3.35") - excluding protrusion
Weight		1,440g (3.17lbs) including battery weight , excluding media
Display Panel		TFT colour LCD 2.4 inches 240 x 320

Miscellaneous

Standards & Agency Approvals	Please contact your nearest SATO sales representative regarding agency approvals for your region
Functions – Useful features	Consistent High Speed 6ips, IP54, SATO AEP (Application Enabled Printing), SATO Online Services, Tutorial Videos on LCD, Multi Language Support LCD Message (31 Languages), Energy Saving, Large Status LED, USB Memory for Data Copy, Status Return, Alarm Sound, setup after languague: Multi Languague setup. Tumble (including battery and label) NM: 0.5, 1000 times (closed)
Functions – Self Diagnosis Checking	Thermal Head Check, Paper End Detection, Test Print, Cover Open Detection, Auto Power Off

Accessories

Included in Package	Lithium-ion Smart Battery, Belt Clip
Optional	1-Bay Charging Cradle, 1-CH/ 4-CH Battery Charger, AC Adapter, DC Adapter, Cigarette-lighter Adapter, Hand Strap, Belt Loop, Shoulder Strap, Carrying Case, Printer Stand, 1-inch media guide cores (2)

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