Small in size. High on performance.

PW2NX Series

A powerful compact 2-inch
mobile printer range

SYSTEMS
PRINT MEDIA

SATO

The Last Inch®

Unleashing the Power of IoT

PW2NX Series

Print labels or receipts on demand in any location

The PW2NX Series is a highly productive, durable and compact 2-inch mobile printer range from SATO, ideal for applications in a wide range of sectors from manufacturing and distribution to healthcare. The compact SATO PW2NX offers best in class print speeds and high quality, robust print via multiple interfacing options. SATO PW2NX models are cost-effective solutions for quickly printing the information you require wherever and whenever you need it

⊘ APPLICATIONS

SATO's unique AEP platform allows optimisation to any application including:

- Retail • Field Support
- Logistics & Distribution
- Warehousing & Manufacturing
- Healthcare • Hospitality
- Public Utilities / Government

⊘ KEY FEATURES

- Portable and lightweight
- Simple to operate
- Compact
- Robust
- Fast print speed

High quality as standard

PW2NX Series printers have a maximum printing speed of 152mm per second, which is an industry leading throughput. Able to print 47 major languages, they print text, graphics, 1D and 2D barcodes with ease. PW2NX Series printers deliver a desktop-quality full 55mm print width with printer control to generate a consistent output. Whether the device is being used by a warehouse operative, healthcare professional or retail assistant, its user-friendly features and high-speed output make it simple to get started.

Compatible with SATO labels and all commonly sourced media, PW2NX Series printers ensure top print quality and durability to guarantee customer satisfaction. Linerless labels operation, which is typically a chargeable option on competitor models, is standard with the PW2NX. This is beneficial to customers, such as retailers, with stringent waste reduction targets. Linerless labels contain up to 40% more labels per roll and support waste and carbon footprint reductions.

Small and mighty

Imagine you're a traffic warden or police person issuing tickets during a lengthy shift. Lugging a heavy mobile printer around with you is the last thing you'd need. PW2NX Series printers are lighter than most comparable mobile printers on the market enabling users to carry them comfortably for as long as it takes to get the job done. The compact SATO printer is also compatible with belt clips and shoulder straps for convenient portability.

Despite the PW2NX Series printer's diminutive stature, it displays outstanding robustness. Drop resistant from up to 2.1m, PW2NX Series printers have strong polycarbonate bodies and co-moulded rubber elastomer material on the edges to absorb any impact when dropped. This prevents costly downtime as a result of printer breakage in both internal and external workplace environments. From factory floors to hospital corridors, the device can withstand impact with all hard surfaces.

It won't let you down

PW2NX Series printers have unparalleled compatibility. Third party emulations like SCPCL, SZPL, POS and SDPL make it simple to replace existing printers. In addition, connectivity options such as the standard model with Bluetooth 3.0, USB2.0, NFC support and iOS and Android compatibility offer optimum user convenience. Or, the optional wireless LAN (IEEE802.11a/b/g/n) model allows users to connect host systems. For retail operatives, the option to connect wirelessly increases accuracy by synchronising markdown label prices at the till in real time.

Retail assistants can also be confident that PW2NX Series printers won't run out of power when printing multiple shelf edge labels. Each device contains a long lasting, eco-friendly smart lithium-ion battery and an integrated micro-chip for smart charging and intelligent functions. Numerous charging options are available for battery charging such as AC adaptor and 1 bay / 4 bay printer cradles or 1 channel battery charger, which offers peace of mind for users out in the field such as PAT testers.

PW2NX Series speaks your customers' language

Unlike other mobile printers on the market, the PW2NX Series printer contains onboard intelligence in the form of SATO Application Enabled Printing (AEP). For the user, this enables direct connection with input devices such as scanners, which in turn facilitates faster label printing. With SATO AEP, printer operation is easily customised to suit your unique business requirements, errors and costs are reduced and increased productivity is possible. This feature is invaluable to organisations such as healthcare providers, integrating PW2NX Series printers with hospital information systems to ensure positive patient identification and the efficient management of patient records, medication assets and accounting.

USER-FRIENDLY FUNCTIONS, SOFTWARE & TOOLS

✓ Quick and easy media loading with one-touch cover opening

✓ Bright, clear EL displays and alerts

✓ A range of software and tools available

Label shown is for infographic purposes only and is not a true representation of the printing capability of this printer.
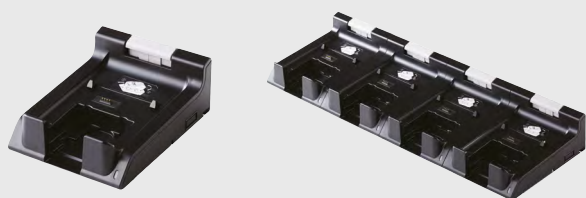
Technical tools

- SATO All-In-One configuration utility • Drivers
- Label designer software • SNMP Ver.3
- Mobile All-In-One Setting Utility
- Web Browser configuration (WLAN only)

Optional Accessories

1 Bay / 4 Bay Charging Cradle

A space-saving design for use on walls, in vehicles etc. Printer is fully operational during charging and provides clear indications of the charging status.

AC Adaptor

Plug the AC adaptor into the printer and charge between uses. Printer is operational during charging.

1 Channel Battery Charger

Charges a single smart battery in 3 hours.

Cigarette-Lighter Adaptor

Allows printer charging from a vehicle.

Lithium-Ion Battery

Intelligent power management and programmable sleep modes for extended battery life.

Carrying Cases

Including a heavy-duty model with pockets for scanning or mobile terminal devices and spare media roll.

Shoulder Strap

Optional shoulder straps are available as a hands-free solution.

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PW2NX Series

SATO

PW2NX Technical Specification

PRINTING SPECIFICATION		PW2NX
Printing Method		Direct Thermal
Print Resolution, dots/mm (dpi)		8 dot/mm. (203dpi)
Max. Print Area	Width, mm (inch)	55 mm. (2.2")
	Length, mm (inch)	160mm. (6.3")
Max. Print Speed, mm/sec (ips)		152 mm/sec (6 ips). Intelligent control for fast, consistent printing
Display		Organic Electroluminescent display, high brightness + wide-angle viewing. Prominent red, green and blue status LEDs

CONSUMABLES SPECIFICATION. SATO labels provide optimum performance			
Sensor Type			Gap (Transmissive) and I-Mark (Reflective)
Media Type			Roll die-cut labels and continuous media with release liner. Linerless media handling as standard. Receipt paper
Media Thickness			64 to 190μm (0.064 to 0.19mm)
Label Roll	Diameter		Max. external diameter 60 mm. (2.4")
	Wind Direction		Face-out
Label Size	Continuous	Width	25.4 - 55mm. (1.0 - 2.2")
		Length	13 - 160mm. (0.6 - 6.4")
	Tear Off	Width	25.4 - 55mm. (1.0 - 2.2")
		Length	16 - 160mm. (0.6 - 6.3")
	Dispenser	Width	32 - 55mm. (1.3 - 2.2")
		Length	25 - 160mm. (1.0 - 6.3")
	Linerless	Width	50 - 58mm. (2.0 - 2.3")
		Length	16 - 120mm. (0.6 - 4.7")

FONTS / SYMBOLOGIES		
Fonts	Standard Fonts	Multiple Bitmap fonts. Helvetica Outline font. Multiple rasterized fonts. Refer to Operator Manual for full list.
Barcodes	1D Barcode	UPC-A. UPC-E. JAN/EAN. CODE 39. CODE 93. CODE 128. GS1 128(UCC /EAN 128). CODABAR (NW-7). ITF, Ind 2 of 5, Matrix 2 of 5, Customer Barcode, UPC Add-on Code, BOOKLAND, GS1 DataBar Omni-directional, GS1 DataBar Truncated, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Limited, GS1 DataBar Expanded, GS1 DataBar Expanded Stacked
	2D Barcode	QR Code (including Micro QR), Security QR, PDF417 (including Micro PDF), MAXI Code, GS1 DataMatrix, DataMatrix (ECC200), Aztec Code
Print Rotation	Character Data / Barcode	0°, 90°, 180°, 270°

INTERFACE CHARACTERISTICS		
Interfaces	USB / Bluetooth Model	Bluetooth 3.0 with iOS support. USB 2.0 High Speed
	Wireless LAN Model	Bluetooth 3.0 EDR, iOS support. USB. WLAN 2.5 Ghz, 5.0 Ghz band; IEEE802.11a/b/g/n.
	Remote management	SATO All-in-One Configuration utility. SNMP. Web Browser (Wifi).
	NFC	For fast device pairing and rapid configuration
Drivers		Windows, SAP, NiceLabel, Bartender, Teklynx, SATO CUPS driver for Linux and Mac OS
Language Emulations		SBPL, SPOS, SCPCL, SZPL, SDPL, SIPL, STPCL

OPERATING CHARACTERISTICS	
Power Requirements	AC Adaptor/charger. Input voltage AC100-240V (auto switching). Output voltage 10v DC, 1.9A
Battery	Lithium-ion Smart Battery. 7.2V, 1950 mAh
Power Saving	Smart battery with intelligent charging and usage technology. Programmable sleep functions
Weight / Dimensions	437.8g (including battery) / W 95 mm x D 128 mm x H 68 mm
Memory	2GB ROM; 256MB RAM
Drop Testing	2.1 metres, all faces.
Casing construction	Polycarbonate and shock-absorbing elastomer
Operating temperature	-15 to 50°C (5 to 122°F). WLAN model: 0 to 50°C (32 to 122°F). In Linerless mode: 5 to 35°C (41 to 95°F)
Humidity	10 to 85% RH. WLAN model: 20 to 80% RH. In Linerless mode: 30 to 75% RH (All non-condensing)

MISCELLANEOUS	
Certifications	European compliance CE. Bluetooth MFi Certification. Wi-fi certification. FCC. ROHS compliant.
Operator Function	Operator keys and display are "Island" grouped for ease of operation. Extensive Icon-driven user functions.
Self Diagnosis Functions	Head check, Battery check, Paper end detection, Head open detection, Sensor error detection, Data error check. Overcharge / over discharge protection, Test print.

OPTIONS	
Accessories	Spare battery, Single battery charger, 1 Bay and 4 Bay Charging Cradles for vehicle, desk or wall-mounting , AC Adaptor (charges battery inside the printer). Standard and Heavy Duty Carry Cases. Shoulder Strap, Vehicle charger.

SYSTEMS
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Ceaseless Creativity for a Sustainable World