



Industrial printers built for you, and built to last

TJ-4020TN / TJ-4120TN / TJ-4021TN / TJ-4121TN Data Sheet



Windows



iOS

Performance and durability you can rely on

The versatile TJ Series industrial label printer uses high capacity thermal transfer ink ribbons for durable labelling and ultimate productivity.

Key Features:

- Various printer command languages supported, including ZPL2 emulation
- High capacity 450m ribbon to minimize downtime
- In-built durability for tough production environments
- Fast print speeds up to 10ips (254 mm/sec)
- LED indicators and touch panel displays available for a first-class user experience
- Flexible connectivity options with USB, USB Host, Serial, Ethernet and Wireless (optional)



General

Carton contents	Power cord USB cable Documentation 1" ribbon paper core
Language support	Dansk, Deutsch, English, Español, Français, Italian, Nederlands, Norsk, Português, Suomi, Svenska

Dimensions & Weights

Without carton	TJ-4020TN TJ-4120TN: 248(w) x 436(d) x 274(h) 9.2kg
	TJ-4021TN TJ-4121TN: 248(w) x 436(d) x 274(h) 9.4kg

Built In Features

Printing Method	Direct Thermal / Thermal Transfer
Print Resolution	TJ-4020TN TJ-4021TN: 203dpi TJ-4120TN TJ-4121TN: 300dpi
Maximum print speed	TJ-4020TN TJ-4021TN: 254mm/sec TJ-4120TN TJ-4121TN: 178mm/sec
Maximum print width	TJ-4020TN TJ-4021TN: 107mm TJ-4120TN TJ-4121TN: 105.7mm
Minimum print length	Continuous: 5mm Tear mode: 50 mm Peeler mode: 25.4mm Cutter mode: 25.4mm
Maximum print length	TJ-4020TN TJ-4021TN: 25400mm TJ-4120TN TJ-4121TN: 11430mm
Minimum media width	20mm
Maximum media width	Tear/Peeler mode: 120mm Cutter mode: 114mm
Maximum roll diameter	203mm
Minimum roll core diameter	25.4mm
Maximum roll core diameter	76.2mm
Minimum ribbon width	40mm
Maximum ribbon width	110mm
Suggested paper core width	1" paper core:
Inner paper core & ribbon length	1" paper core: Max. OD 81.3 mm, 450m long
Interfaces	USB Ver.2.0 (Full Speed) (Type B), USB Host Serial RS232C (DB9 female) Wired LAN 10/100BASE-TX Wi-Fi 802.11 a/b/g/n (module option)

Control Panel	TJ-4020TN TJ-4120TN: 4 LED indicators, 1 status indicator and 2 buttons TJ-4021TN TJ-4121TN: 3.5-inch colour touch display and 6 button navigation
Printer commands	FBPL-EZD (EPL2,ZPL2,DPL)
Internal fonts & sizes	8 alpha-numeric bitmap fonts for FBPL Monotype Image® true type font engine with one CG Triumvirate Bold Condensed scalable font
Memory	RAM: 128MB Flash: 128MB
Internal Barcode	Linear: Code128UCC, Code128 subsets A, B, C, EAN128, Interleaved 2 of 5, Interleaved 2 of 5 with check digit, Standard 2 of 5, Industrial 2 of 5, Code39, Code39 with check digit, Code93, EAN13, EAN8, UPCA, UPCE, EAN and UPC 2 (5) digits add-on, Codabar, Postnet, MSI, MSI with check digit, PLESSEY, China post, ITF14, EAN14, Code11, TELEPEN, TELEPEN number, PLANET, Code49, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS 2-dimensional: CODABLOCK F mode, GS1 DataBar, GS1 DataMatrix, Maxicode, AZTEC, PDF417, QR Code, Micro PDF417, TLC39
Operating system support	Microsoft® Windows® 8.1 / Windows® 10 Server 2012 / Server 2012R2 / Server 2016 / Server 2019 macOS 10.12.x, 10.13.x, 10.14.x 10.15 Ubuntu V11.04-16.04 / Fedora 24 / SUSE Linux Enterprise Server 12 / CentOS Linux 7.2 / Red Hat Enterprise 7.3
Windows SDK	Microsoft® Windows® 8.1 / Windows® 10 Microsoft® Windows® Server 2012 / Server 2012R2 / Server 2016 / Server 2019
Mobile SDK	Android v5 – v10 iOS v9 – v13.2 Requires 3 rd party app development using Brother SDK, further information available at www.brother.eu/developer
Software	BarTender Ultra Lite Edition: Barcode label design software Brother Printer Management Tool: Software to centrally manage devices for updating settings, firmware and other configurations. (Microsoft® / Windows® 8.1 / Windows® 10 only), Microsoft® Windows® Server 2012 / Server 2016 / Server 2019)

Environmental

Operating Temperature	0°C to 40°C
Operating Humidity	25% to 85% non-condensing
Storage Temperature	-40°C to 60° C
Storage Humidity	10% to 90% non-condensing

Supplies

Roll type*	TBC
Ribbon type*	Standard Wax: BWS-1D450-110: 110mm x 450m
	Premium Wax: BWP-1D450-110 – 110mm x 450m
	Standard Wax/Resin: BSS-1D450-110: 110mm x 450m
	Premium Wax/Resin: BSP-1D450-110: 110mm x 450m
	Standard Resin: BRS-1D450-110: 110mm x 450m
	Premium Resin: BRP-1D450-110: 110mm x 450m

Optional Accessories (Dealer Option)

Label Peeler (with liner rewinder)	PA-LP-005
Cutter	PA-CU-004
WLAN Interface (module) (User Option)	PA-WI-002

*For additional supplies information, please contact your local Brother office

All specifications are correct at the time of printing and are subject to change without notice. Brother and the brother logo are both trademarks of Brother Industries, Ltd., registered in Japan and certain other countries. Any trade names, logos and product names of other companies appearing are trade names or trademarks of those respective companies.

BIE Product Planning: Last updated 26/06/2020



Industrial printers designed for high-volume label printing

TJ-4420TN / TJ-4520TN / TJ-4422TN / TJ-4522TN Data Sheet

Performance you can rely on

Designed for high-volume label printing, the Brother TJ series is capable of printing more than a thousand labels a day.

The durable label printers offer rapid print speeds, large ribbon capacity and an internal rewinder on selected models - making them perfect for any industrial printing application.

Key Features:

- Various printer command languages supported, including ZPL2 emulation
- Rapid print speeds up to 14ips (356 mm/sec)
- Automatic internal rewinder on selected models
- High capacity 600m ribbon to minimize downtime
- In-built durability for tough production environments
- LCD and touch panel displays available for a first-class user experience
- Flexible connectivity options with USB, USB Host, Serial, Ethernet and optional Wireless and Bluetooth (single module)



General

Carton contents	Power cord USB cable Documentation
Language support	Dansk, Deutsch, English, Español, Français, Italian, Nederlands, Norsk, Português, Suomi, Svenska

Dimensions & Weights

Without carton	TJ-4420TN TJ-4520TN: 276mm (W) x 502mm (D) x 326mm (H) 15.35kg
	TJ-4422TN TJ-4522TN: 276mm (W) x 502mm (D) x 412mm (H) 18.93kg

Built In Features

Printing Method	Direct Thermal / Thermal Transfer
Print Resolution	TJ-4420TN TJ-4422TN: 203dpi TJ-4520TN TJ-4522TN: 300dpi
Maximum print speed	TJ-4420TN TJ-4422TN: 356 mm/sec TJ-4520TN TJ-4522TN: 305 mm/sec
Maximum print width	104mm
Minimum print length	Continuous: 5mm Tear mode: 50 mm** Peeler mode: 12.7mm** Cutter mode: 25.4mm**
Maximum print length	TJ-4420TN TJ-4422TN: 25400mm TJ-4520TN TJ-4522TN: 11430mm
Minimum media width	20mm
Maximum media width	114mm
Maximum roll diameter	203mm
Minimum roll core diameter	38.1mm
Maximum roll core diameter	76.2mm
Minimum ribbon width	25.4mm
Maximum ribbon width	114.3mm
Inner paper core & ribbon length	1" paper core: Max. OD 90mm, 600m long
Interfaces	USB Ver.2.0 (Full Speed) (Type B), USB Host Serial RS232C (DB9 female) Wired LAN 10/100BASE-TX Wi-Fi 802.11 a/b/g/n & Bluetooth v4.2 (single-module option)

Control Panel	TJ-4420TN TJ-4520TN: LCD display, 1 status indicator and 6 button navigation TJ-4422TN TJ-4522TN: Colour touch display, 1 status indicator and 6 button navigation
Printer commands	FBPL-EZD (EPL2,ZPL2,DPL)
Internal fonts & sizes	8 alpha-numeric bitmap fonts for FBPL Monotype Image® true type font engine with one CG Triumvirate Bold Condensed scalable font
Memory	RAM: 256MB Flash: 512MB (MicroSD Flash memory card reader or Flash memory expansion up to 32 GB)
Internal Barcode	Linear: Code128UCC, Code128 subsets A、B、C, EAN128, Interleaved 2 of 5, Interleaved 2 of 5 with check digit, Standard 2 of 5, Industrial 2 of 5, Code39, Code39 with check digit, Code93, EAN13, EAN8, UPCA, UPCE, EAN and UPC 2 (5) digits add-on, Codabar, Postnet, MSI, MSI with check digit, PLESSEY, China post, ITF14, EAN14, Code11, TELEPEN, TELEPEN number, PLANET, Code49, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS 2-dimensional: CODABLOCK F mode, GS1 DataBar, GS1 DataMatrix, Maxicode, AZTEC, PDF417, QR Code, Micro PDF417, TLC39
Operating system support	Microsoft® Windows® 7 / 8.1 / 10 / Server 2012 / Server 2012R2 / Server 2016 / Server 2019 OS X 10.11.x macOS 10.12.x,10.13.x,10.14.x 10.15 Ubuntu V11.04-16.04 / Fedora 24 / SUSE Linux Enterprise Server 12 / CentOS Linux 7.2 / Red Hat Enterprise 7.3
Windows SDK	Microsoft® Windows® 7 / 8.1 / 10 Microsoft® Windows® Server 2012 / Server 2012R2 / Server 2016 / Server 2019
Mobile SDK	Android v5 – v10 iOS v9 – v13.2 Requires 3rd party app development using Brother SDK, further information available at www.brother.co.jp/eng/dev/
Software	BarTender Ultra Lite Edition: Barcode label design software (download) Brother Printer Management Tool: Software to centrally manage devices for updating settings, firmware and other configurations. (Microsoft® Windows® 8.1 / Windows® 10 only), Microsoft® Windows® Server 2012 / Server 2016 / Server 2019)

Environmental

Operating Temperature	0°C to 40°C
Operating Humidity	25% to 85% non-condensing
Storage Temperature	-40°C to 60° C
Storage Humidity	10% to 90% non-condensing

Supplies

Roll type*	Uncoated label: BUS-1J074102-203: 102mm x 74mm, 2,940 labels BUS-1J150102-203: 102mm x 150mm, 1,500 labels
	Coated label: BCS-1J074102-203: 102mm x 74mm, 2,900 labels BCS-1J150102-203: 102mm x 150mm, 1,440 labels
Ribbon type*	Standard Wax: BWS-1D600-110: 110mm x 600m
	Premium Wax: BWP-1D600-110: 110mm x 600m
	Standard Wax/Resin: BSS-1D600-110: 110mm x 600m
	Premium Wax/Resin: BSP-1D600-110: 110mm x 600m
	Standard Resin: BRS-1D600-110: 110mm x 600m
	Premium Resin: BRP-1D600-110: 110mm x 600m

Optional Accessories (Dealer Option)

Label Peeler** (with liner rewinder)	PA-LP-006
Cutter**	PA-CU-005
WiFi and Bluetooth Interface (module) (User Option)	PA-WB-001

*For additional supplies information, please contact your local Brother office

**TJ-4420TN & TJ-4520TN only

***TJ-4422TN & TJ-4522TN only

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BIE Product Planning: Last updated 30/10/2020



DATASHEET

Brother *Titan Industrial* Printer Series

High-resolution printing with
the performance you need

Product SKUs

TJ-4620TN



TITAN INDUSTRIAL PRINTER SERIES

Print ultra-fast. Again. And again. And again.

Introducing the TJ-4620TN of the Brother *Titan Industrial Printer* series. This high-resolution printer features an incredible 600dpi for super-precise characters, symbols, and tiny scannable barcodes on product labels or small tags.

The Brother *Titan Industrial Printer* produces consistently crisp barcode labels at top speeds. Push the boundaries of what you can accomplish with refreshingly easy designed to drop-in integration and a complete set of connectivity choices. Experience it all with some of the most affordable price points and subscription¹ options available. Then, discover unmatched support that's "at your side" for life.²



	Dual WIFI Bluetooth Module	USB	Ethernet	Serial	Resolution	Speed	Direct Thermal	Thermal Transfer	Cutter/ Peeler
TJ-4620TN	Optional	✓	✓	✓	600dpi	6 ips max ³	✓	✓	Optional

Key features



Performance: Produce quality, scannable barcodes at up to 6ips³ with 600dpi for visibly sharp resolutions.



Support: Backed by an industry-leading Two-year Premier Limited Warranty⁴, printhead replacement perks program⁵, and responsive, lifetime² customer support.



Integration: Seamlessly integrate with YOUR system using a full suite of included emulations, SDKs, and drivers.



Versatile connectivity: All models come standard with Ethernet/LAN, USB 2.0, host USB, and RS232C Serial, plus a dual Wi-Fi[®] and *Bluetooth*[®] connectivity option.



Buy or subscribe: Upfront affordability with some of the lowest price points in the industry or subscription¹ options for one low monthly fee.



Usability: See printer status easily with a bright multicolor status light and LCD display.

¹ Shift & Print Subscription Service is subject to credit approval.

² For the life of the product.

³ Based on performance tests using Brother certified media, actual results may vary in actual applications.

⁴ Warranty includes the printhead, which is covered up to 2 years or 1 million linear inches, whichever comes first. For full details, contact your Brother Sales Representative or visit our [Warranty Page](#).

⁵ Get replacement printheads at up to 56% off the list price while the machine is under warranty and serviced by Brother.

Learn more about the
Titan Industrial Printer Series



Industry applications

Ideal for high-resolution printing in manufacturing and laboratory applications, this printer lets you produce legible, scannable labels at font sizes 6 and under (or Asian fonts less than 10 points).



Laboratories

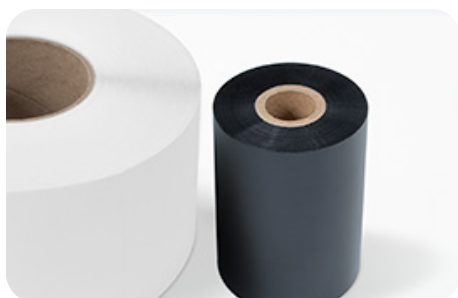
- Specimen and aliquot labels
- Slide labels
- Blood bag labels

Transport & logistics (warehouse)

- International shipping labels
- Product ID labels

Manufacturing

- Small labels with scannable barcodes, crisp graphics, and easy-to-read small text
- Serial number and rating plates with regulatory symbols
- Circuit board labels



Supplies

Find Premium label rolls and ribbon types for all your applications*. Custom options also available.



Accessories

We offer optional peeler, cutter, and dual Wi-Fi & Bluetooth interface, as well as replacement platen roller and printheads*.



Extended warranty service

Extend the useful life of your printer by adding an extended service program at any point while your printer is still under warranty*.

Get in contact

800-543-6144
MobileSales@Brother.com
BrotherMobileSolutions.com

*Additional purchase required.

Software tools for easy integration and label design



BarTender



NiceLabel



Teklynx



SOTI Connect

BrotherMobileSolutions.com

General

Box Contents	Printer, Power Cord, USB Cable, Documentation
Dimensions (W x H x L)	10.9" x 12.8" x 19.8" (276mm x 326mm x 502mm)
Weight	33.8 lbs. (15.4kg)
Power Specifications	Built-In Power Supply (Input: 100 - 240VAC 50/60Hz 4.0A – 2.0A)
Printer Memory	256MB SDRAM, 512MB Flash, Optional 32GB MicroSD Card
Control panel	6 Keys, 3 Color Status LED, 3.5" Color TFT LCD Control Panel, Dual Host-USB Interface Ports
Real Time Clock	Standard
Audio Device	Standard
Operating Systems	Windows Server 2019/2016/2012 R2/2012, Windows 10/8.1/7 (64-bit and 32-bit), Mac OS X® 10.11.x, macOS® 10.12.x or Higher, Linux®
SDK Support	Windows Server® 2019/2016/2012 R2/2012/2008 R2/2008, Windows® 10/8.1/8/7, Windows Vista, Android v5.0 or Higher, iOS v9.0 or Higher
In Box Software	Seagull BarTender UltraLite Design/ Print Software Application, Brother Printer Management Software Tool
Printer Languages	FBPL II, ZPL II®, EPL2, DPL
ENERGY STAR Certified	Energy Star 3.0
Operating Temperature/ Humidity	32°F - 104°F (0°C - 40°C) / 25% - 85%
Storage Temperature/Humidity	-40°F - 140°F (-40°C - 60°C) / 10% - 90%

Connectivity

Standard Interfaces	Ethernet LAN (10/100Base-TX), USB 2.0, Dual Host USB, RS232C Serial
Optional Interfaces	Dual Wi-Fi WLAN (5GHz 802.11a/n, 2.4GHz 802.11b/g/n) & Bluetooth 5.0
Security Protocols	<u>W</u> LAN: IPv4, ARP, ICMP, UDP, TCP, RAW, DHCP Client, DHCP FQDN Option, Unicast DHCP Offer <u>L</u> AN: ARP, MAC, BOOTP, DHCP, DNS, WINS, FTP Server, HTTP Server, SNTP Client, SMTP Client, SNMP V1, Telnet, LPR/LPD, RAW 9100, IPv4, ICMP, IGMP, TCP, UDP
Wireless Security	802.11i, WEP 64/128bit, WPA-PSK/WPA2 (TKIP/AES), WPA2-Enterprise (EAP-FAST, PEAPv0, EAP-TLS, EAP-TLS)
Bluetooth Profiles	SPP, GATT (BLE)

Printing

Print technology	Direct Thermal and Thermal Transfer
Print Head Resolution	600dpi (24 dots/mm)
Print Engine speed	Up to 6 ips (152mm/sec) ¹
Media/Print Width	4.5" (114mm) / 4.1" (104mm)
Resident Barcodes	<u>Linear</u> : Code 11 (USD-8), Code 39, Code 93, Code 128 with subsets A/B/C, UPC-A, UPC-E, EAN-8, EAN- 13, UPC and EAN 2- or 5-digit extensions, GS1-128 (UCC/EAN-128), MSI Plessey, POSTNET, Standard 2-of-5 (ATA), Industrial 2-of-5, Interleaved 2-of-5, ITF-14, EAN-14, LOGMARS, Codabar (NW-7), Planet, Telepen, Deutsche Post Identcode, Deutsche Post Leitcode, Datalogic 2-of-5 (China Post) <u>2D</u> : CODABLOCK F, PDF417, Code 49, GS1 DataMatrix, MaxiCode, QR Code, TLC39, MicroPDF417, GS1 DataBar (RSS), Aztec Code
Printer Sensors	Full Width Moveable Gap (Transmissive) and Black Mark (Reflective), Ribbon Encoder and Ribbon End, Head Open, Peeler (Optional)
Media Type	Label and Tag: Roll or Fanfold / Die Cut or Continuous
Media Roll Size	8.00" (203.2mm) Outer Diameter, Wound Out 1.5" (38.1mm) or 3" (76.2mm) Core Inside Diameter
Media Loading	Internal: 1.5" Spindle, Compatible up to 3" Core External: Rear or Bottom Feed (External Roll and Fanfold)
Media Specifications	Width: 0.79" - 4.5" (20mm - 114mm), Thickness: 2.36mil – 11mil (0.06mm - 0.28mm), Minimum Length (Tear): 0.2" (5mm), Minimum Length (Cutter): 1.0" (25.4mm), Minimum Length (Peeler): 0.5" (12.7mm)
Ribbon Types	Wax, Resin, Semi (Wax / Resin)
Ribbon Length	1,968' (600m) / 3.5" (90mm) Outer Diameter, Wound In/Out or 1,476' (450m) / 3.2" (81.3mm) Outer Diameter, Wound In/Out or 984' (300m) / 2.64" (67mm) Outer Diameter, Wound In/Out on 1" (25.4mm) Core Inside Diameter (No Notch)
Ribbon Width	1.0" - 4.5" (25.4mm - 114.3mm)
Ribbon Take Up Core	Ribbon Quick Release Take Up Spindle, No Ribbon Take Up Core Required
Optional Accessories	Wi-Fi & Bluetooth Interface (PA-WB-001), Automatic Cutter (PA-CU-005), Label Peeler with Liner Rewinder (PA-LP-006), Print Head 600dpi (LBX099001), Platen Roller (LBX101001)

¹Based on performance tests using Brother certified media, actual results may vary in actual applications
Images are for illustrative purposes only. Actual output (such as font and margins) may vary. All specifications subject to change without notice.