

TOSHIBA

INDUSTRIAL

BX420 Family

- High-performance 4" thermal label printers
- Flexible device integration
- Reliable hardware with long-life printheads
- Supports IoT device management
- Seamless replacement for legacy thermal printers



The next-generation of industrial printing.

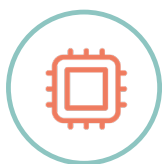
Superior hardware meets smart, cloud-based technology.

In today's fast-paced industrial environment, maintaining peak performance under heavy workloads can be challenging. The BX420 Family, available in two versatile models—the BX420D (direct thermal) and BX420T (thermal transfer), ensures exceptional reliability and efficiency to keep your operations running smoothly, even in the most demanding conditions.

Powered by Toshiba's innovative A-BRID Operating System and a high-performance dual-core CPU, this printer provides smart, cloud-based connectivity for seamless integration and remote management. By combining trusted hardware with advanced technology, the BX420 Family helps streamline workflows, reduce downtime, and enhance productivity—offering a future-proof solution that grows with your business.



Industrial
Printing



Toshiba's A-BRID
Operating System



Superior User
Experience



Seamless
Connectivity

Bridging tradition and innovation.

- The BX420 Family combines field-proven hardware with a dual-core CPU running both a real-time operating system and a Linux OS, creating Toshiba's A-BRID ecosystem.
- Toshiba's A-BRID Operating System integrates multifunction printer technology into label printers, enabling advanced IT applications.

Stay ahead with unmatched productivity.

- Renowned hardware reliability with long-life printheads minimize downtime and deliver unmatched total cost of ownership (TCO).

Superior user experience.

- New features like the integrated label near-end detection and a full-color display streamline daily operations.
- QR code-based user functions link mobile devices to the printer or connect to support resources like help desks.



Turn your printer into a labeling hub.

- Embedded apps transform printers into standalone print stations, leveraging data directly from barcode scanners or keyboards without the need for a workstation.
- Security is paramount: Only Toshiba-tested and certified whitelisted apps are allowed to run on A-BRID.

Take control of your fleet—from anywhere.

- Toshiba's proprietary cloud service infrastructure Elevate Sky® MFPCoconnect automatically manages counters, logs, and firmware updates.
- Centrally monitor, manage and support your printer fleet remotely with SOTI Connect.

Integration made easy.

- Native PDF printing and automatic legacy language selection simplify setup.
- Printer cloning replicates configurations seamlessly across devices.

Seamless connectivity.

- Standard USB and LAN ports, plus an optional Wi-Fi module, provide versatile connection options to suit your needs.

Which model fits your business needs?

BX420D

A cost-effective direct thermal printer, ideal for short-term labeling like shipping labels.

- No ribbon required—lower material costs.
- Best for logistics, retail, and warehouse applications.

BX420T

A thermal transfer model, perfect for businesses upgrading from legacy printers.

- Seamless integration with existing systems.
- Features centered media alignment with automatic width detection.
- Great for industrial, retail, and compliance labeling.



Unlock next-level connectivity, customization, and integration with Toshiba's A-BRID technology.

Built for next-generation printers, Toshiba's A-BRID Operating System revolutionizes industrial printing by delivering unmatched connectivity, seamless customization, and effortless integration.

Real-time PDF Printing: Automatic rotation & scaling for faster document handling.

Effortless Integration: Streamlined data conversion for easy system compatibility.

Automatic Language Detection: Eliminates manual configuration with auto-emulation for simplified setup.

Remote Management: Monitor & manage your printer fleet with Elevate Sky® MFPCoconnect & SOTI Connect.

Simplified Deployment: Quick setup with printer cloning & intuitive web interface.

Standalone Printing: Direct printing from mobile devices or barcode scanners for added convenience & flexibility.

Advanced Security: Robust protection for all networked devices & data.



BX420 Family

Model		Media	
BX420D200		Alignment	Center
Resolution	203 dpi (8 dots/mm)	Backing Paper Width	25–114 mm
BX420T200		Label Thickness	Label: 0.13–0.17 mm Tag: 0.08–0.25 mm
Resolution	203 dpi (8 dots/mm)	Inner Media Core Diameter	76.2 mm
BX420T300		Outer Media Roll Diameter	Max. 200 mm
Resolution	300 dpi (12 dots/mm)	Media Type	Vellum Paper and Labels, Matte Coated Paper, Glossy Coated Paper, Synthetic Film, PET Film, Polyimide
General		Media Formats	Roll, Fanfold
Printhead	Flat Head	Near End Detection	Adjustable, e.g. 10% Remaining
Print method	Direct Thermal/Thermal Transfer	A-BRID Operating System	
Dimensions (W x D x H)	278x 460 x 310 mm	CPU	Dual Core, 1.0 GHz
Weight	BX420D 15.2kg/33.5 BX420T 16.4kg/36.2	A-BRID Dual OS	System: Linux-based Print Engine: RTOS
User Interface	Full Color LCD, 2x LED, 11 x Key	Memory	1 GB RAM, 8 GB ROM
Operation		Expansion Memory	Via USB Drive
Temperature/Humidity	5°C—40°C/25—85% Non-Condensing Relative Humidity (RH)	Embedded Applications	SDK for Custom Applications, e.g. for Standalone Printing
Storage		Print Data Converter	Automatically Convert or Correct Incoming Data
Temperature/Humidity	-40°—40°C/10—90% Non-Condensing Relative Humidity (RH)	PDF Printing	Auto Print of PDFs, Auto Rotate, Auto Scaling
Power Supply	AC 100-240V, 50/60 Hz	Software & Connectivity	
Print		Emulation	Auto-detection of TPCL, ZPL II, DPL, SBPL, PDF
Sensor	Reflective, Transmissive	Printer Driver	Windows 11/10, Windows Server 2022/2019, SAP, CUPS Driver for Linux, macOS
Max. Print Speed	305 mm/Second (12ips)	SDK	iOS, Android, Windows, Java
Max. Print Width	111 mm	Interface	USB 2.0 HS (USB host/HID support), LAN 10/100/1000 BaseT, RS232*, WLAN 802.11ac/a/b/g/n/ax*, Expansion I/O(1)
Print Length		Language Mode	TPCL
Batch	6—1,496 mm	Label Software	BarTender UltraLite
Cut	21.4—1,496 mm	IoT Device Management	SOTI Connect, Elevate Sky® MFPCconnect
Peel-off	21.4—1,496 mm	Options	
Barcodes	EAN8, EAN13, JAN8, JAN13, UPC-A, UPC-E, NW7, CODE 39, Code 93, ITF, MSI, Code 128, EAN 128, Industrial 2 of 5, POSTNET, RM4SCC, KIX-code, GS1 DataBar, USPS Intelligent Mail, Customer Barcode	Disc Cutter, Peel-off Module, External Media Guide, RS232, Wireless LAN, EX I/O, Real Time Clock	
2D Codes	Data Matrix, PDF417, MaxiCode, QR Code, Micro QR Code, Micro PDF417, CP Code, AZTEC Code, GS1 QR Code, GS1 Data Matrix	*Optional	
Fonts	Bitmap Font, Outline Font, Price Font, Optional TTF, OTF, Writable Characters		
Ribbon			
Ribbon Width	Max. 112 mm		
Ribbon Core Size	25 mm (±0.2 mm)		
Max. Ribbon Length	600 m, 800 m		
Max. Ribbon Diameter	90 mm		
Near End Detection	30 or 70 m Selectable		

business.toshiba.com

Technical data is subject to change without prior notice. All company and/or product names are trademarks and/or registered trademarks of their respective manufacturers in their markets and/or countries. All rights reserved. We are constantly making efforts to deliver the latest status of data to our partners. Specifications for some models may change in the time between the production and the release of this documentation.

Corporate Office 25530 Commercentre Drive, Lake Forest, CA 92630
Tel: 949-462-6000

