



INDUSTRIAL

BX820T

Next-generation 8-inch industrial printing—built to keep up with your operation.

Designed for demanding environments with the durability, flexibility, and reliability modern labeling operations require.

- Rugged metal frame with support for large external media rolls
- Low total cost of ownership
- Proven reliability in high-volume environments
- Flexible media handling for large and specialty labels



Built for the most demanding labeling environments.

Superior hardware meets smart, cloud-enabled technology.

In fast-moving industrial environments, downtime, print issues, or slow performance don't just create frustration, they can slow everything down. The BX820T is built to keep things running smoothly, delivering fast, reliable performance and consistent print quality, even under heavy workloads.

With advanced processing and rugged construction, it's designed to support production lines, warehouses, and distribution centers without interruption. As the next-generation upgrade, it brings improved performance, easier integration, and a platform that's ready for what's next.



Industrial
Printing



Toshiba's A-BRID
Operating System



Superior User
Experience



Compliance
Labeling



Seamless
Connectivity

A powerful upgrade built for the future.

- Modern platform designed to replace aging printers
- Faster processing for improved speed and efficiency
- Built to support high-volume operations
- Designed to adapt to evolving business needs

Consistent, high-precision labeling—every time.

- High-resolution output for crisp barcodes and graphics
- Reliable readability for compliance-critical labels
- Reduced misprints and scan failures
- Designed for industries with strict labeling requirements

Heavy-duty reliability you can count on.

- Rugged metal construction built for harsh conditions
- Designed to minimize downtime and service interruptions
- Durable components engineered for long-term performance
- Ideal for production, warehouse, and logistics environments

One printer. More possibilities.

- Handles thick tags, large labels, and specialty media
- Supports a wide range of industrial applications
- Reduces the need for multiple devices
- Adapts as your operational needs evolve

Ready for larger labels and 2D barcode requirements.

- Supports larger label formats aligned with GS1 Sunrise 2027
- Optimized for 2D barcodes and faster scanning
- Helps reduce compliance risk and rejected shipments
- Built to support evolving industry requirements

Designed to work with your existing systems.

- Integrates easily with ERP, WMS, EHS and legacy systems
- Flexible connectivity options for modern IT environments
- Faster deployment with minimal disruption
- Designed for long-term compatibility

Seamless connectivity.

- Standard USB and LAN ports, plus an optional Wi-Fi module, provide flexible connection options to fit your environment

Designed for applications that require maximum label width and full-format visibility with true 8-inch printing.

- Supports true 8-inch wide labels for oversized pallet, carton and compliance labeling
- Ideal for chemical, automotive, and manufacturing environments, where GHS, drum, and large component labels must remain clear and durable
- Enables clear presentation of barcodes, symbols, warnings, and required regulatory information
- Supports regulatory compliance (OSHA, EPA, local regulations)





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.

BX820T

Model

BX820T	
Resolution	300 dpi (11.8 dots/mm)

General

Printhead	Flat Head
Print method	Direct Thermal/Thermal Transfer
Dimensions (W x D x H)	403 x 432 x 276 mm (15.9" x 17" x 10.9")
Weight	14.4 kg / 31.8 lbs 16.2kg / 35.7 lbs with media holder
User Interface	Full-Color LCD, 2x LED, 11x Key
Operation	
Temperature/Humidity	5°C—40°C/25—85% Non-Condensing Relative Humidity (RH)
Storage	
Temperature/Humidity	-40°—40°C/10—90% Non-Condensing Relative Humidity (RH)
Power Supply	AC 100-240V, 50/60 Hz

Print

Sensor	Reflective, Transmissive
Max. Print Speed	152 mm/Second (6 ips)
Print Width	97 - 216.8 mm (3.9" to 8.5")
Print Length	
Batch	13 - 1366 mm
Cut	23.4 - 1366 mm
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
2D Codes	Data Matrix, PDF417, MaxiCode, QR Code, Micro QR Code, Micro PDF417, CP Code, AZTEC Code, GS1 QR Code, GS1 Data Matrix
Fonts	Bitmap Font, Outline Font, Price Font, Optional TTF, OTF, Writable Characters

Ribbon

Ribbon Width	120 mm to 220 mm (4.7" to 8.66")
Ribbon Core Size	25.8 mm +/- 0.2 mm
Max. Ribbon Length	300 m
Max. Ribbon Diameter	72 mm
Near End Detection	30 or 70 m Selectable

Media

Alignment	Center
Backing Paper Width	100-242 mm
Label Thickness	Label: 0.13–0.17 mm Tag: 0.08–0.25 mm
Inner Media Core Diameter	76.2 mm
Outer Media Roll Diameter	Max. 230 mm
Media Type	Vellum Paper and Labels, Matte Coated Paper, Glossy Coated Paper, Synthetic Film, PET Film
Media Formats	Roll, Fanfold

A-BRID Operating System

CPU	Dual Core, 1.0 GHz
A-BRID Dual OS	System: Linux-based Print Engine: RTOS
Memory	1 GB RAM, 8 GB ROM
Expansion Memory	Via USB Drive
Embedded Applications	SDK for Custom Applications, e.g., for Standalone Printing
Print Data Converter	Automatically Converts or Corrects Incoming Data
PDF Printing	Automatic PDF Printing, Auto Rotate, Auto Scaling

Software & Connectivity

Emulation	Auto-detection of TPCL, ZPL II, DPL, SBPL, IPL, PDF
Printer Driver	Windows 11/10, Windows Server 2022/2019, SAP, CUPS Driver for Linux, macOS
SDK	iOS, Android, Windows, Java
Interface	USB 2.0 HS (USB host/HID support), LAN 10/100/1000 Base-T, RS232*, WLAN + Bluetooth* 802.11ac/a/b/g/n/ax*, Expansion I/O(1)
Language Mode	TPCL
Label Software	BarTender UltraLite
IoT Device Management	SOTI Connect, Elevate Sky® MFPCoconnect

Options

RS232, WLAN + Bluetooth, EX I/O, Cover, Real-Time Clock, Swing Cutter

*Optional



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