TOSHIBA

Next-Gen Industrial Printers

BX410T Series



Unlock the Power of Labelling

A new era of industrial printing

Built on the same renowned hardware as its outstanding predecessor, the BX410T series boasts a powerful dual-core CPU that drives Toshiba's revolutionary A-BRID operating system. It provides smart, cloud-based intelligence that keeps your operation seamless, even in the most demanding applications. The BX410T industrial printer series – where superior hardware meets innovative technology.



Bridging tradition with innovation

- The BX410T combines field-proven hardware with a dual-core CPU running both, a real-time OS and a Linux OS creating the A-BRID eco-system.
- The A-BRID OS merges multifunctional printer technology into label printers, enabling innovative IT applications.

Stay ahead with unmatched productivity

- Renowned hardware reliability with long-life print heads ensure minimal downtime and unmatched total cost of ownership (TCO).
- Toshiba's ribbon save technology and long length ribbons extend operating time without any interactions required.

Superior user experience

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

Integrated RFID analyser & direct encoding

- A-BRID's system architecture allows applications, such as the Toshiba RFID analyser to run directly on the printer.

Turn your printer into a labelling hub

- Embedded apps transform printers into standalone print stations that receive data directly from barcode scanners or keyboards, eliminating the need for a workstation.
- Security is paramount: Only white listed apps, tested and certified by Toshiba will run on A-BRID.

Take control of your fleet – from anywhere

- Toshiba's proprietary cloud service infrastructure e-BRIDGE CloudConnect manages counters, logs and deploys firmware automatically.
- Centrally visualise, manage and support your fleet of printers with SOTI Connect.

Integration made easy

- Native PDF printing together with automatic language selection of legacy printer languages.
- Printer cloning can easily replicate device configurations from one printer to another.

Connect and print

- From the standard USB and LAN ports to the optional Wi-Fi module connect however you want.

A-BRID – Empowering label intelligence

Designed for the next-gen printers, the multi-core CPU combined with the A-BRID OS architecture introduces a new era of connectivity, customisation and integration.

- Real-time PDF printing with auto rotation & scaling
- Easy data conversion for seamless integration
- Auto-emulation detects printer language automatically
- Cloud ready: e-BRIDGE CloudConnect & SOTI Connect
- Simplified device deployment with printer cloning
- Web interface removes the need for separate software
- Embedded apps for, e.g. standalone printing
- Extended connectivity, security & network functions



Specifications

Models

BX410T-GS02	
Resolution	203 dpi (8 dots/mm)
BX410T-TS02	
Resolution	305 dpi (11.8 dots/mm)

General

Printhead	Near edge
Print method	Direct thermal / thermal transfer
Dimensions (W x D x H)	278 x 460 x 310 mm
Weight	17 kg
User interface	Full colour LCD, 2x LED, 11 x key
Operation temperature/ humidity	5°C–40°C / 25–85% non-condensing relative humidity (RH)
Storage temperature / humidity	-40°–60°C / 10–90% non-condensing relative humidity (RH)
Power supply	AC 100–240 V, 50/60 Hz

Print

Sensor	Reflective, transmissive
Max. print speed	356 mm/second (14 ips)
Max. print width	104 mm
Print length	
Batch Cut Peel-off	6–1,496 mm 21.4–1,492 mm 21.4–1,496 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	max. 112 mm
Ribbon core size	25.7 mm (±0.2 mm)
Max. ribbon length	600 m , 800 m
Max. ribbon diameter	90 mm
Near end detection	30 or 70 m selectable

RFID[1]

RFID module	Optional UHF (EPC Gen2) Optional HF (ISO 15693, ISO14443 Type A)
RFID analyser	Integrated RFID analyser

Media

Alignment	Centre
Backing paper width	30–107 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. 200 mm
Media type	Vellum paper and labels, Matt coated paper, Glossy coated paper, Synthetic film, PET film, Polyimide
Media format	Roll, fanfold
Near end detection	Adjustable, e.g. 10% remaining

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 convert or correct incoming data
PDF printing	Auto print of PDFs, auto rotate, auto scaling

Software & Connectivity

Emulation	Auto-detection of TPCL, ZPL II, DPL, SBPL, 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 BaseT, RS232[1],), WLAN 802.11ac/a/b/g/n/ax[1], Expansion I/O[1]
Language mode	TPCL
Label software	NiceLabel free, BarTender UltraLite
IoT device management	SOTI Connect, e-BRIDGE CloudConnect

Options

Disc cutter, Rotary cutter, Peel-off module, Ribbon save module, External media guide, RS232, Wireless LAN, EX I/O, UHF RFID kit, HF RFID kit, Real time clock

[1] Optional

Loftware™ BarTender® BY SEAGULL SCIENTIFIC

About Toshiba Tec

Toshiba Tec Corporation is a leading provider of information technology, operating across multiple industries - ranging from retail, education and business services to hospitality and manufacturing. With headquarters in Japan and over 70 subsidiaries worldwide, Toshiba Tec Corporation helps organisations transform the way they create, record, share, manage and display information.

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