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<br>Cut<br>Peel-off | 6–1,496 mm<br>21.4–1,492 mm<br>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)<br>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<br>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<br>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

## 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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