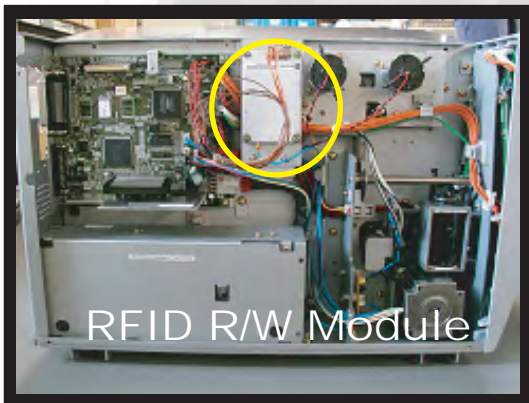


TOSHIBA TEC announces **RFID READY** B-SX and new B-SA range of thermal printers

TOSHIBA TEC is pleased to announce that the Toshiba B-SX and new Toshiba B-SA range of thermal printers has just become smarter. With a reputation as one of the most powerful, flexible and robust industrial printers available today, the addition of the RFID capability ensures the B-SX and new B-SA range will provide functionality and performance with the latest cutting-edge technology.

As part of TOSHIBA's continuing commitment to new technology, now we provide the ability to provide a conduit to the latest information technology. This is the ability to encode RFID chips using the B-SX and B-SA series printers. To be able to meet the various standards and frequencies, Toshiba is offering the unique ability to use different readers and antenna on the same model. Initially, two modules will be available but other read/writers can be easily integrated.

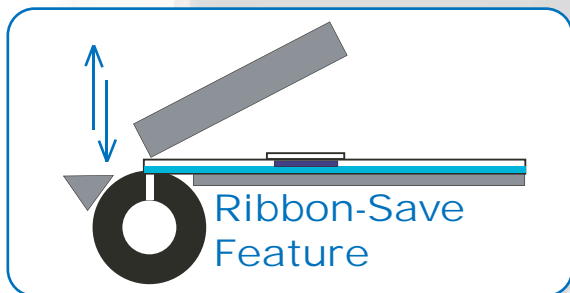
The B-SX and B-SA range can now provide users with an easy upgrade path to RFID read/write capability for both UHF and HF applications. For both flexibility and choice, the B-SX and B-SA range does not have pre-fitted RFID read/write units, therefore the printers can be fitted with modules from some of the best known names in the RFID field. Simply fitting an antenna and plugging the module into the CPU will allow the printer to read, write and verify a variety of RFID smart labels.



RFID R/W Module



RFID Antenna



The *Ribbon-Save* module of the B-SX and B-SA series (where fitted) in combination with Toshiba's floating head technology, can be used to lift the print head over the chip in the label, thus reducing the risk of impact damage to the programmed chip.

For the user, the B-SX and B-SA range of printers simplifies RFID by treating the addition of encoding as just another barcode. By selecting the RFID barcode in the windows driver or sending the command to the printer as part of a format, the printer will encode the data based on the module fitted and the chip detected.

RFID PRINTER SPECIFICATIONS:



Example of Squiggle TAG



Example of "M" TAG



Example of "I" TAG

General Specifications:

Supported RFID tag type:

For North America (915MHz UHF)

EPC Class1, minimum (For near future,

EPC Class 1 Generation 2 will be available.)

For Europe (13.56MHz HF)

Tagsys (C210, C220 and C240), I-Code, Tag-It, ISO15693

When the UHF standard for Europe is also ratified

(869.5MHz (EU) in the UHF range.)

Resolution:

200dpi/B-SX4T, 300dpi/B-SX5T

Maximum print area:

Width: (104mm / 4" for B-SX4) (127mm / 5" for B-SX5)

Length: 1498mm / 59" for B-SX4T/5T

Maximum print speed:

10ips/B-SX4T, 8ips/B-SX5T, 6ips/B-SA4

Features for RFID

Head Up function (optional ribbon-save module required on B-SX4T) reduces the likelihood of damage to the chips during printing. Using Toshiba's Ribbon-Save technology, the print head can be raised to allow it to skip the RFID chip contained in the label. This unique function removes the possibility of impact or pressure damage to both the head and the chip. The end result of which is the continued long life of the print head and fewer chip failures after printing. This feature not applicable for B-SA4.

Basic command interpreter

This is Toshiba's powerful user programmable interface. Using this it is possible to maintain compatibility with current RFID technology with the B-SX and B-SA series printers to extend the frequencies and chips available. It also allows the possibility to uniquely tailor the programming of the chips to your exact requirements.

Compliance with TEC Printer Command Language (TPCL)

The RFID function has been added to the existing TPCL control language making it easy for programmers on legacy systems to add this function to existing systems.

Windows driver

The printer driver will also support the RFID function allowing chips to be encoded from most Windows applications.

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