

INVENGO BLUTAG HF TAG



About Invengo's BluTAG Durable, Small Size High Performance HF Tag

Invengo's rugged BluTAG offers superior performance and reliability in the identification and tracking of textile products in industrial environments. BluTAG is one of the sturdiest and most resilient encapsulated HF tags available on the market today. It has been specifically designed for industrial textile products, including flat linen identification in rough industrial laundry environments.



Invengo's Textile Services division provides an innovative and highly performant IoT Linen Inventory Management Platform (ACUITY), enabling the industrial Laundry industry worldwide as well as their Hospitality and Healthcare customers, to gain continuous access to real-time inventory visibility/availability of their textile assets and to make intelligent business decisions to increase their profitability.

Invengo Technology Pte. Ltd. (Singapore) is the International Headquarters of Invengo Information Technology Co. Ltd, listed on Shenzhen Stock Exchange (SZSE: 002161.SZ). Employing over 600 people globally, Invengo is one of the largest publicly traded, RFID/IoT oriented companies in the world.

Key Benefits

- Small in size and unobtrusive
- Extremely robust, designed for harsh laundry processes
- Outstanding HF read performance
- Optimized coat / quality ratio

Product Specifications

General

Frequency	13.56 MHz
Operating Mode	Passive
Diameter	15 mm (0.59 in)
Thickness	2,8 mm max (0.11 in)
Material	PPS, light blue
Marking	Chip reference, chip ID and fab out date laser engraved on transponder housing; 40 bit chip ID marked in hexadecimal over 10 digits around the tag; Date format: xx(week)y(year) in center

RFID

Operating Protocol	ISO 15693, ISO-18000-3-1
Memory	64 UID bits (16 digits) Multi-read, lockable
Data Retention	50 years

Laundry Cycle Performance

Maximum Temperature Exposure	220°C (428°F)/30 seconds/ 2.5 bars (36.28 PSI)
Tunnel Washer	90°C (194°F)/15 minutes
Pre-drying in Tumbler	185°C (365°F)/15 minutes
Tunnel Finisher	185°C (365°F)/30 minutes
Sterilization Process	134°C (273°F)/20 minutes
Vulcanization Process	220°C (428°F)/30 minutes: Oppm defective part*
Water Extractor Press	60 bars*
Washing Cycles	300 cycles or 3 years minimum guaranteed

* Performance level measured and guaranteed in Invengo's Laundry tests and conditions

Delivery

Delivery Packaging	500 units in transparent plastic bags (weight 410 g +/-5%)
Parcel Labeling	Sales reference, order number, quantity
Quality Control	100% final inspection and full traceability database for each individual tag via its UID code number
Minimum Order	1000 units
Product Reference	TL340E01

Additional Information

Our R&D and Quality experts have selected the most reliable RFID tag technology, while optimizing cost-efficiency, to ensure BluTAG's outstanding read performance. The new tag performance is improved up to 25% compared to previous generation tags using Invengo's latest reader platform.

BluTAG is small and unobtrusive, sewn into textile products either in the hem, inside a fabric pouch or heat sealed under a patch.

BluTAG is multiread and performs very fast even with high temperature, providing a reliable solution when clean items have to be read just after the ironing process.

BluTAG is highly resistant to tunnel washers, water extractors (up to 60 bars), tunnel finishers, tumblers and calendars (up to 200°C/392°F).

APAC

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