

## BAND

Top-performance tag for document management applications.



BAND RFID tags and inlays with ISO 18000-3 Mode 3 compliant ICs can be tuned to allow close stacking or contact that confuses other inductively coupled HF and LF tags. The identification rate, per the 3 Mode 3 protocol, can be up to 800 RFID tags in one second in a single reader's field of view.

BAND RFID tags and inlays with NXP ICode ILT-M ICs with a slim antenna design offer several key benefits. Firstly, they have excellent performance in document and item identification where close stacking occurs, which is a challenging environment for other passive RFID protocols. Secondly, BAND tags and inlays also work well in RFID applications where very fast inventory of multiple RFID tags in the field occurs. In these cases, BAND tags offer performance approaching UHF EPC Class 1 Gen 2. Third, they are sized to fit the margin of documents to not interfere with document contents. Finally, RFID inlays using ILT ICs are cost efficiently than any other RFID inlays designed for close stacking.

### Benefits:

- ▶ Best performance for dense label populations.
- ▶ Reliable identification and high anti-collision rates.
- ▶ EAS capability.
- ▶ Privacy feature with 32-bit kill password.
- ▶ 32-bit password to transition into the secured state.
- ▶ Unique TID.
- ▶ ISO 18000-3 Mode 3 compliance.
- ▶ ISO 9001:2008 Quality Management System and ISO 14001:2004 Environment Management System support.

### Overview

#### Operating Frequency

13.56 MHz

#### Integrated Circuit (IC)

NXP ICode ILT-M

#### Antenna Size

23 x 70 mm (0.91 x 2.76 in)

#### Die-cut Size

25 x 72 mm (0.98 x 2.84 in)

#### International Standards

ISO 18000-3 Mode 3

#### Quality Assurance

100% performance tested

### Application Areas

- ▶ Document Tracking
- ▶ Library and Media Management
- ▶ Pharma and Healthcare
- ▶ Gaming

## BAND

Technical Features	
IC	NXP ICode ILT-M
Memory	EPC memory 240 bit / user memory 512 bit
Frequency	13.56 MHz
Antenna Size	23 x 70 mm / 0.91 x 2.76"
Die-cut Size	25 x 72 mm / 0.98 x 2.84"
Web Width	30 mm / 1.18"
Operating Temperature	-40°C to 85°C / -40°F to 185°F
Bending Diameter (D)	> 50 mm, tension max. 10 N
Delivery Formats	Dry inlay, wet inlay
Adhesive	Acrylic, water borne adhesive, other adhesives available for special applications
Adhesive Usage Temperature	min. -20°C to 80°C / min. -4°F to 176°F
Qty/Reel	1,500 inlays per reel
Core Size	76 mm / 3"
Shelf Life: minimum of 2 years from the date of manufacture in	20°C / 68°F, 50% RH

SMARTRAC TECHNOLOGY GROUP uses three different qualification methods to evaluate the quality and reliability of RFID inlay and tag products. Products are tested according to IEC 60068-2-67 (temperature and humidity), JESD22-A104-B (temperature cycling) and an in-house developed bending test.



RoHS CE

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