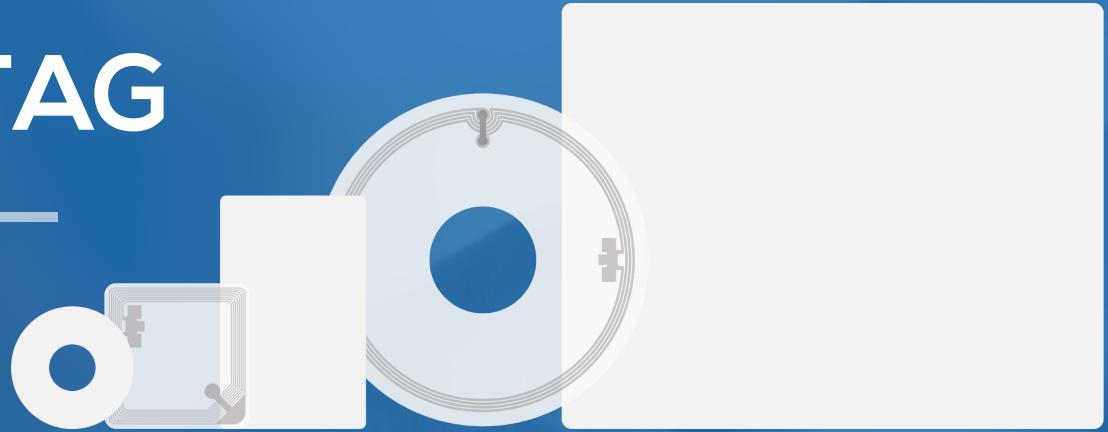


# rfidTAG



The first step to converting your library collection to RFID is choosing tags that deliver fast, reliable performance. Your tags are the key to faster transactions, simpler shelf management, and improved item security using RFID capabilities.

Tech Logic has worked with hundreds of libraries to complete RFID conversions. Our rfidTAG designs exceed industry standards with high quality materials available in formats for all types of library materials. Guaranteed for the entire life-cycle of the item it is affixed to, rfidTAG has set the benchmark for RFID tag quality and performance in the library industry.



## LIBRARY STANDARD

13.56 MHz frequency labels are fully aligned with ISO/IEC 15693, 18000-3, and 28560 – the standard for RFID tags used by all types of libraries.



## MULTIPLE FORMATS

rfidTAG Solutions are available for printed materials, AV cases and individual discs, illustrated materials, tablets, and more.



## CUSTOMIZED TAGS

rfidTAGs can be customized with library logos for ownership marking, barcode “buddy labels”, pre-encoding of data on tags, and more.



## rfidTAG Product Features

|  |   |
|--|---|
| <b>Base Material</b>                         | White semi-gloss paper (thermal transfer printable) or clear PET<br>Aluminum-etched antenna<br>Specialized substrate for various applications<br>Optional ISO 9706 paper, high gloss paper, clear PET, PP, or specialized label materials for specific applications |
| <b>Adhesive and Liner</b>                    | Acrylic adhesive on release paper liner   |
| <b>Chip Memory</b>                           | NXP ICODE SLIX2 SLS2602 w/ 2560 bits memory/2528 bits user memory<br>NXP ICODE SLIX SL2S2002 w/ 1024 bits memory/896 bits user memory**   |
| <b>Delivery Form</b>                         | Book Tags (Booklite and Racetrack): Label face-out on unwinding direction<br>CD Tag (Hub): Label face-in unwinding direction<br>CD/DVD Overlay Tag (X-Range): Label face-in unwinding direction<br>Tablet Tag (TOM): Singulated, in box                             |
| <b>AFI (Application Family Identifier)</b>   | For multi-application support and/or check-in/checkout library item control<br>Usable in plain mode or 32-bit password protected  |
| <b>EAS (Electronic Article Surveillance)</b> | On-board feature to prevent shoplifting or pilferage of books, CD's or DVD's<br>Usable in plain mode or 32-bit password protected   |
| <b>Product Thickness</b>                     | Book Tags (Booklite and Racetrack): 0.32mm<br>CD Tag (Hub): 0.35mm<br>CD/DVD Overlay Tag (X-Range): 0.38mm<br>Tablet Tag (TOM): 1.3mm   |
| <b>ESD</b>                                   | +2KV maximum peak, human body model (HBM) accordingly to chip specification   |
| <b>Product Quality</b>                       | Electrical inspection on 100% of units  |
| <b>Product Options<sup>††</sup></b>          | Clear PET<br>Printed artwork (library logos for ownership marking)<br>Barcode (single or dual, for "buddy labels")<br>Chip encoding with static or dynamic information  |
| <b>Operation Temperatures</b>                | -20° ~ 70°C (-4° ~ 158°F), at <60% RH<br>(according to and limited by chip specifications)  |
| <b>Reliability</b>                           | Thermal Cycle Test: 100 cycles under -55° to 85°C (-67° to 185°F) 15 mins dwell<br>Thermal Humidity Test: 168 hours under 85°C (185°F), 85% RH  |

\*\*Table Tag (TOM) only available in SXP ICODE SLIX  
††Available on all rfidTAGs except Tablet Tag (TOM)



## rfidTAG Racetrack (Book Tag)

### RFID Inlay

|                          |            |
|--------------------------|------------|
| Size (final cut-out)     | 80 x 50 mm |
| Thickness (over IC)      | ~ 280 µm   |
| Thickness (over antenna) | ~ 160 µm   |

### RFID Chip

|                    |                          |
|--------------------|--------------------------|
| IC Code            | NXP ICODE SLIX2 SL2S2602 |
| RF Protocol        | ISO/IEC 15693            |
| Thickness          | ~ 120 µm                 |
| EEPROM Memory Size | 2560 bits                |
| User Memory Size   | 2528 bits                |

### Antenna Substrate (HF 13.56 MHz Identiv Smart Inlays)

|                       |  |
|-----------------------|--|
| Antenna Size          | 76x45 mm   |
| Material              | Aluminum etched on PET substrate<br>**Optional Clear PET substrate |
| Cross-over Connection | Crimping process   |

### Reliability

|                        |  |
|------------------------|--|
| Operating Temperatures | -20° ~ 70°C (-4° ~ 158°F), at <60%RH<br>(according to and limited by chip specification) |
| Thermal Cycle Test     | 100 cycles under -55°/85°C (-67°/185°F) 15min dwell                                      |
| Thermal Humidity Test  | 168 hours under 85°C (185°F)/85% RH  |

### Product Options

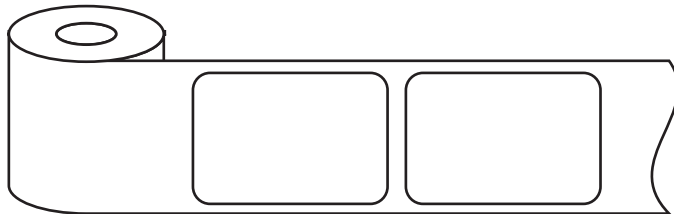
- Clear PET
- Printed Artwork (library logos for ownership marking)
- Barcode (single or dual, for "buddy labels")
- Chip encoding with static or dynamic information

### Reel Delivery Format

|                                  |                   |
|----------------------------------|-------------------|
| Flange Size                      | OD 230mm: ID 76mm |
| Unwinding Orientation:           | Chip trailing     |
| Quantity/Reel (functional units) | 1,500 Units       |



Tag shown at actual size





# rfidTAG Booklite (Book Tag)

## RFID Inlay

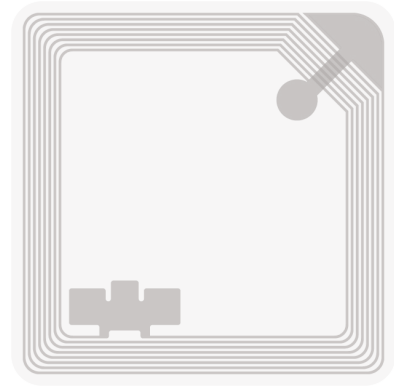
|                          |            |
|--------------------------|------------|
| Size (final cut-out)     | 50 x 50 mm |
| Thickness (over IC)      | ~ 280 µm   |
| Thickness (over antenna) | ~ 160 µm   |

## RFID Chip

|                    |                          |
|--------------------|--------------------------|
| IC Code            | NXP ICODE SLIX2 SL2S2602 |
| RF Protocol        | ISO/IEC 15693            |
| Thickness          | ~ 120 µm                 |
| EEPROM Memory Size | 2560 bits                |
| User Memory Size   | 2528 bits                |

## Antenna Substrate (HF 13.56 MHz Identiv Smart Inlays)

|                       |  |
|-----------------------|--|
| Antenna Size          | 47x47 mm   |
| Material              | Aluminum etched on PET Substrate<br>**optional clear PET substrate |
| Cross-over Connection | Crimping process   |



Tag shown at actual size

## Reliability

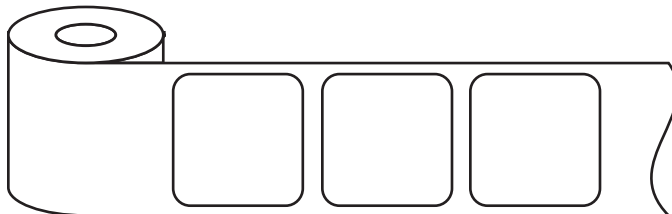
|                        |  |
|------------------------|--|
| Operating Temperatures | -20° ~ 70°C (-4° ~ 158°F), at <60%RH<br>(according to and limited by chip specification) |
| Thermal Cycle Test     | 100 cycles under -55°/85°C (-67°/185°F) 15min dwell                                      |
| Thermal Humidity Test  | 168 hours under 85°C (185°F)/85% RH  |

## Product Options

|   |
|---|
| Clear PET   |
| Printed Artwork (library logos for ownership marking) |
| Barcode (single or dual, for "buddy labels")          |
| Chip encoding with static or dynamic information      |

## Reel Delivery Format

|                                  |                   |
|----------------------------------|-------------------|
| Flange Size                      | OD 230mm: ID 76mm |
| Unwinding Orientation:           | Chip trailing     |
| Quantity/Reel (functional units) | 2,000 Units       |





## rfidTAG X-Range (CD/DVD Tag)

### RFID Inlay

|                          |   |
|--------------------------|---|
| Size (final cut-out)     | OD $\varnothing$ 116 mm, ID $\varnothing$ 41 mm |
| Thickness (over IC)      | ~ 400 $\mu$ m                                   |
| Thickness (over antenna) | ~ 280 $\mu$ m                                   |

### RFID Chip

|                    |                          |
|--------------------|--------------------------|
| IC Code            | NXP ICODE SLIX2 SL2S2602 |
| RF Protocol        | ISO/IEC 15693            |
| Thickness          | ~ 120 $\mu$ m            |
| EEPROM Memory Size | 2560 bits                |
| User Memory Size   | 2528 bits                |

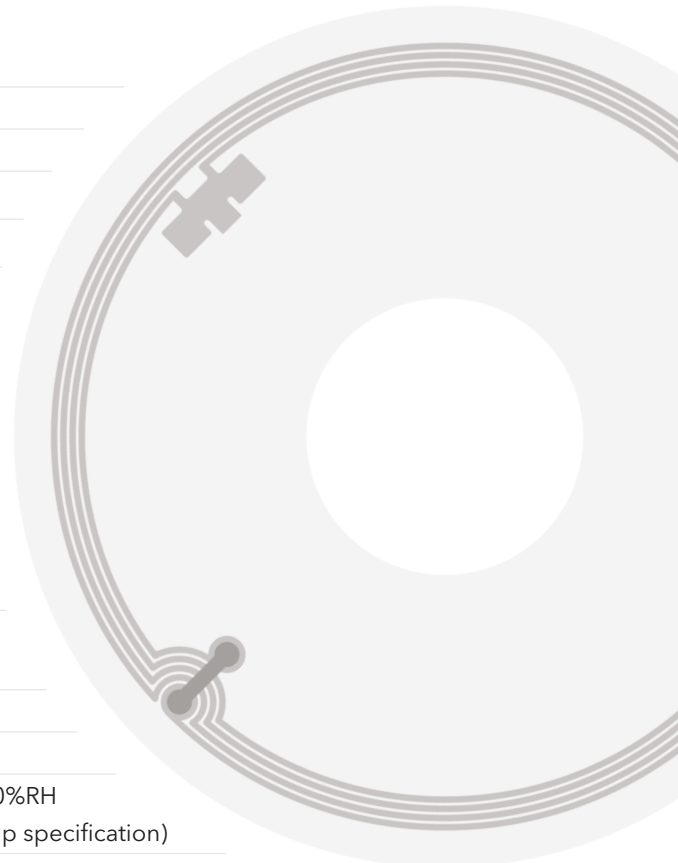
### Antenna Substrate (HF 13.56 MHz Identiv Smart Inlays)

|                       |   |
|-----------------------|---|
| Antenna Size          | $\varnothing$ 110 mm                    |
| Material              | Aluminum etched on clear, PET Substrate |
| Cross-over Connection | Crimping process                        |

### Reliability

|                        |  |
|------------------------|--|
| Operating Temperatures | -20° ~ 70°C (-4° ~ 158°F), at <60%RH<br>(according to and limited by chip specification) |
| Thermal Cycle Test     | 100 cycles under -55°/85°C (-67°/185°F) 15min dwell                                      |
| Thermal Humidity Test  | 168 hours under 85°C (185°F)/85% RH  |

Tag shown at actual size

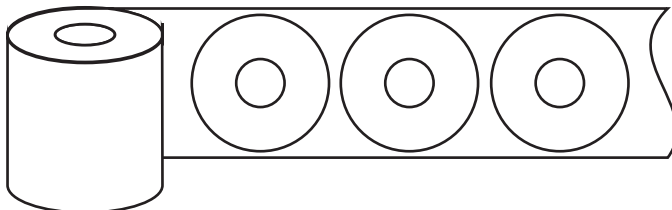


### Product Options

- Printed Artwork (library logos for ownership marking)
- Barcode (single or dual, for "buddy labels")
- Chip encoding with static or dynamic information

### Reel Delivery Format

|                                  |                   |
|----------------------------------|-------------------|
| Flange Size                      | OD 300mm: ID 76mm |
| Quantity/Reel (functional units) | 1,000 Units       |





## rfidTAG Hub (CD Tag)

### RFID Inlay

|                          |                      |
|--------------------------|----------------------|
| Size (final cut-out)     | OD ø42 mm, ID ø16 mm |
| Thickness (over IC)      | ~ 320 µm             |
| Thickness (over antenna) | ~ 200 µm             |

### RFID Chip

|                    |                          |
|--------------------|--------------------------|
| IC Code            | NXP ICODE SLIX2 SL2S2602 |
| RF Protocol        | ISO/IEC 15693            |
| Thickness          | ~ 120 µm                 |
| EEPROM Memory Size | 2560 bits                |
| User Memory Size   | 2528 bits                |

### Antenna Substrate (HF 13.56 MHz Identiv Smart Inlays)

|                       |                                  |
|-----------------------|----------------------------------|
| Antenna Size          | ø34 mm                           |
| Material              | Aluminum etched on PET Substrate |
| Cross-over Connection | Crimping process                 |

### Reliability

|                        |  |
|------------------------|--|
| Operating Temperatures | -20° ~ 70°C (-4° ~ 158°F), at <60%RH<br>(according to and limited by chip specification) |
| Thermal Cycle Test     | 100 cycles under -55°/85°C (-67°/185°F) 15min dwell                                      |
| Thermal Humidity Test  | 168 hours under 85°C (185°F)/85% RH  |

### Product Options

Printed Artwork (library logos for ownership marking)

Barcode (single or dual, for "buddy labels")

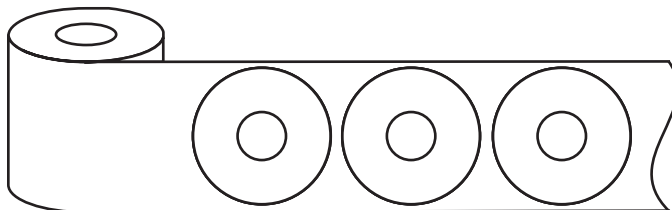
Chip encoding with static or dynamic information

### Reel Delivery Format

|                                  |                   |
|----------------------------------|-------------------|
| Flange Size                      | OD 230mm: ID 76mm |
| Unwinding Orientation:           | Chip trailing     |
| Quantity/Reel (functional units) | 2,000 Units       |



Tag shown at actual size





## rfidTAG Tablet (Tag on Metal)

### RFID Inlay

|                          |              |
|--------------------------|--------------|
| Size (final cut-out)     | 186 x 146 mm |
| Thickness (over IC)      | ~ 1.3 mm     |
| Thickness (over antenna) | ~ 1.2 mm     |

### RFID Chip

|                    |                                |
|--------------------|--------------------------------|
| IC Code            | NXP ICODE SLIX SL2S2202 (0 pF) |
| RF Protocol        | ISO/IEC 15693                  |
| Thickness          | ~ 120 µm                       |
| EEPROM Memory Size | 1024 bits                      |
| User Memory Size   | 896 bits                       |

### Antenna Substrate (HF 13.56 MHz Identiv Smart Inlays)

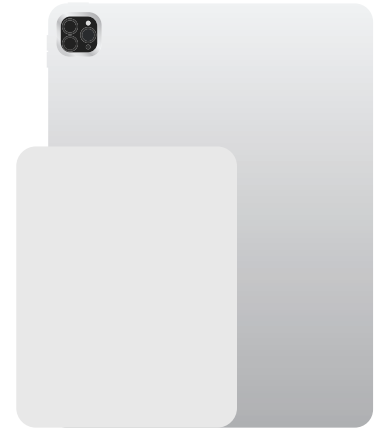
|                       |                                  |
|-----------------------|----------------------------------|
| Antenna Size          | 180 x 140 mm                     |
| Material              | Aluminum etched on PET Substrate |
| Cross-over Connection | Crimping process                 |

### Reliability

|                        |  |
|------------------------|--|
| Operating Temperatures | -20° ~ 70°C (-4° ~ 158°F), at <60%RH<br>(according to and limited by chip specification) |
| Thermal Cycle Test     | 100 cycles under -55°/85°C (-67°/185°F) 15min dwell                                      |
| Thermal Humidity Test  | 168 hours under 85°C (185°F)/85% RH  |

### Fanfold Delivery Format

|                                  |                  |
|----------------------------------|------------------|
| Quantity/Reel (functional units) | 50 pcs/inner box |
|----------------------------------|------------------|



Tag shown in relation to 12.9" iPad Pro®

iPad Pro® is a registered trademark of Apple, Inc., registered in the US and other countries.