

# I&L RFID Tag Sample Kit



HID Global is a leading supplier of choice for OEMs, systems integrators, application developers and providers serving a variety of markets, including logistics, waste management, returnable transport items, asset tracking, automation, medical and animal identification.



The HID Identification Technology business unit designs and delivers a full range of RFID system components including readers and robust tags, in frequencies ranging from low-and high-frequency to UHF.

The RFID tags from HID can be custom designed and programmed to create innovative or specialized RFID solutions and the tags support chips from all major manufacturers, including:



Swiss engineering combined with HID-owned Malaysian, fully automated, ISO 9001:2008 certified production plant ensure the tags quality and affordability.

This kit contains a representative sample of the industrial RFID tags<sup>1</sup> offered by HID Global. The tags are fully functional and more detailed information about each tag is available on this media file or on-line. HID Global offers a much broader portfolio of RFID tags than what is contained in these sample kits. To inquire for a particular product sample, please contact HID sales.

For more information, please visit [www.hidglobal.com/rfid](http://www.hidglobal.com/rfid) or email [tagsales@hidglobal.com](mailto:tagsales@hidglobal.com)

<sup>1</sup> Please note that alternative products of similar form factor, but with different chips or frequencies may have been put into this kit, compared to what is described as content in the following section.

## HID UHF Tag Samples:

### InLine Tag™ Ultra Family

The InLine Tag Ultra family is a set of highly robust general purpose UHF hard tags, with multiple fixation options, worldwide UHF broadband capability and excellent performance. Two members of the InLine Tag Ultra family are enclosed, the *InLine Tag Ultra* and the *InLine Tag Ultra Slim Weld* (thinner with metal ring).



InLine Tag™ Ultra Family

### IronTag®

IronTag is an on-metal only tag that is light weight and optimized for high temperature resistance. The tag is available in US or EU frequencies. The tag is also available with an adhesive sticker which is designed to withstand the same high temperatures. IronTag 206 has a built-in Monza X UHF chip that provides 2 or 8KB of user memory, making it ideal for special applications that need to store significant amounts of data on the tag itself. This kit contains *IronTag 176 and 206*.



IronTag 176

IronTag 206

**Keg Tag UHF**

The keg tag family is a set of on-metal hard tags designed to fit on steel kegs, gas bottles etc. to track their lifecycle and endure the harsh treatment of kegs and tags along the way. This kit contains the Keg Tag UHF which is meant to be glued on metallic items like gas cylinders.



Keg Tag LF      InLine Ultra Curve      Keg Tag UHF

**SlimFlex™ Tag Family**

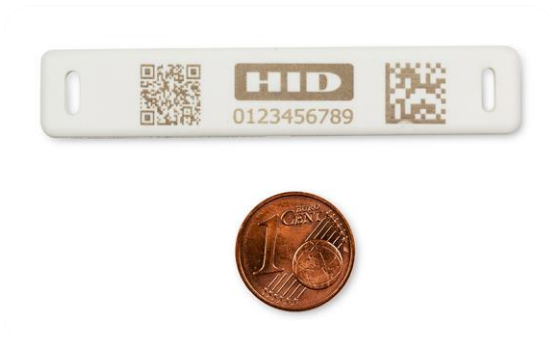
The SlimFlex Tag family are broadband UHF tags are highly durable and flexible. These tags are ideal for rugged, outdoor use on irregular surfaces. Two members of the SlimFlex Tag family are included in the kit, the *SlimFlex Tag Standard-200* and the *SlimFlex Tag Mini*.



SlimFlex Tag Standard-301



SlimFlex Tag Standard-200



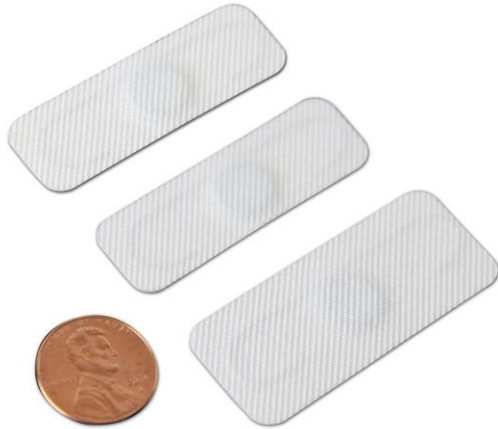
SlimFlex Tag Mini



SlimFlex SealTag Mini (integrated cable tie)

## LinTag™

The LinTag family represents some of the most robust UHF laundry transponders on the market. The tags withstand up to 300 harsh commercial linen washing cycles while their patented design prevents the tags from decreasing performance over time. Tag options for stitching, heat-sealing or embedding in a pouch or pocket exist. This bag contains a *LinTag Stitch*.



LinTag™ Stitch, Embed and Heat-seal

## High-Temperature Label

This thin and flexible label is flame resistant and meant to survive the high temperatures of paint-shop processes during automotive production processes. The label can be manufactured in custom shapes and be laser engraved with graphic or text for optical recognition.



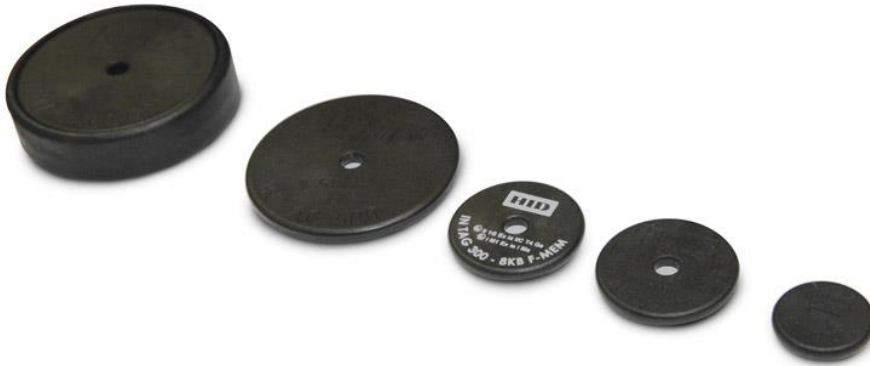
HID High-Temperature Label UHF

## HID LF and HF Tag Samples:

### IN Tag™

The IN Tag family is a set of disc shaped transponders that are highly ruggedized and ideal for all sorts of industrial applications. The tags are food compatible, flame resistant and ATEX certified.

IN Tag transponders are available in 20, 30 or 50mm diameter with various chip options in LF and HF frequencies. IN Tag 200 and 500 are also available in on-metal versions. This kit contains an *IN Tag 300 HF* (iCODE SLiX).



IN Tag family

### World Tag™

The World Tag family is a set of disc shaped transponders that are suited for low cost indoor office use applications. Like IN Tags, they are available in 20, 30 or 50mm diameter with various chip options in LF. This kit contains a *World Tag 30mm in LF* (Unique chip).



World Tag Family

### Epoxy Tag

Epoxy discs are thin, printable and available in different diameters for LF and HF. Epoxy discs are often used in light duty industrial applications. This kit contains an *Epoxy Tag UHF* (rectangular shape).



Epoxy Tag Family

### Logi Tag™

The LogiTag family is a set of small disc shaped transponders that are optimized for high robustness. Mainly used for industrial laundry or medical applications, Logi Tag's small form factor paired with excellent environmental resistance and an ATEX certification for explosive or mining environments make them ideal for other industrial item tagging applications as well. This kit contains a *Logi Tag 121 on-metal* (Vigo™ Chip), a *LogiTag 161* and *Logi Tag Button 162 HF* (iCODE SLix) for Laundry applications.



Logi Tag Family

### Glass Tags

HID manufactures millions of glass tags every year for industrial and animal ID use. They are ATEX certified and available in different sizes and chip formats including LF and HF. For industrial use, glass tags are often embedded by customers in dedicated housing or enclosures. Standard glass tag dimensions range from 1.4x8mm, via 2x12 and 3x13 up to 4x22mm. LF examples of these form factors are included in this kit. Alternatively e-rods, which are the electronics inside a glass tag, are also available for customers to embed directly into a custom housing e.g. an animal ear-tag they manufacture.



Glass Tag Family

### Plug Tag

Plug Tag is one example of a special tag form factor that includes a glass tag. Plug Tag transponders are ideal to be inserted into pre-drilled holes with a simple and quick push. The tag stays affixed without any need for tools or glue. This kit contains a *Plug Tag* with LF Unique chip.



Plug Tag

### NFC Inlays and Labels

Inlays are available in form of transparent wet inlays or as printable labels in rolls of 2.000 pcs. These form factors are available NTAG 213 chip (NFC Forum tag type 2) or [HID Trusted Tag®](#) (NFC Forum tag type 4) for use cases that need secure authentication or more memory. This kit contains a *40 mm NTAG 213 wet inlay*.



NFC Inlays &amp; Labels with NTAG 213 – NFC Forum tag type 2 chip



## ClearDisc

ClearDisc transponders are available in many different diameters and LF or HF chip formats. They are typically embedded by the customer in some other form of enclosure or directly into the tagged product. HID's patented direct bonding technology allows welding the antenna wire directly onto the tiny chip (see image below), instead of requiring a big module of several mm edge length. The space gained by direct bonding and HID's reliable automated production with low deviations make it possible to produce ClearDisc transponders with a hole in the middle so that pipes or cables can run through the transponder in the final product. This kit contains a *ClearDisc 20mm with LF Unique* chip.



ClearDisc

## Piccolino Tag™

The Piccolino Tag family is ideal for extremely space restricted applications that need a disc shaped transponder in HF. Like the IN Tag, chip options for this family include the radiation resistant FRAM technology that is immune to gamma –sterilization and offers significantly higher write speed and number of write cycles than typical EEPROM based chips. This kit contains a *Piccolino Tag* example with 7.5mm diameter. Smaller dimensions are available as well.



Piccolino Tag

## Summary

All tags in this kit are fully operational with standard based reader equipment on LF, HF or UHF. All tags with HF MIFARE® or iCODE SLix chip may also be used with certain NFC enabled smartphones. MIFARE® UL and NTAG chips comply with NFC Forum tag type 2. HID Trusted Tag® and NXP MIFARE® DESFire® EV1 chips comply with NFC Forum tag type 4. iCODE SLix and Vigo™ chips comply to NFC Forum tag type V when NDEF formatted.



ATEX certification of HID tags simplifies re-certification of an installation at customer site that involves RFID tags and ensures the tags will not act as an ignition source in potentially explosive environments.



HID Global is member of the [RAIN RFID](#) UHF industry association. All HID UHF tags may be treated as RAIN tags.



HID offers customization services like special tag designs, custom tag colors, laser engraving, programming or packaging. Take a look at our tag selector page at [www.hidglobal.com/rfid](http://www.hidglobal.com/rfid)

For further assistance, please contact your local HID partner or [tagsales@hidglobal.com](mailto:tagsales@hidglobal.com).