

# IQ Labels Non-Metal

## Efficiently tag large quantities of non-metallic assets to enable powerful RFID applications

HID IQ Labels are small, thin self-adhesive tags that allow discreet or overt placement. They are easily hidden behind a poster or display, or inside a product housing or package; or they may be imprinted with high-visibility graphics, attracting the attention of people with smartphones or other standard RFID readers. With print, peel and stick flexibility in discrete or roll-to-roll labels, asset management becomes simple, cost effective and efficient.



Promotional marketers use IQ Labels to quickly and cost-effectively integrate digital touch points into physical media, such as posters, packaging, point-of-purchase displays, and magazines. With IQ Labels in place, smartphone-wielding customers can interact in real time with your brand. Wireless technology enables effortless transactions, engaging improved customer participation and satisfaction.

NFC technology has enabled the convergence of social media, localized promotional efforts and mobile technology, empowering marketers with unprecedented tools to promote products and services while rewarding customer loyalty. Integrate the benefits of social-local-mobile (SoLoMo) technology to empower your customer conversations.

For industrial applications, HF and UHF IQ Labels enhance the speed and accuracy of inventory and process management systems. Using RAIN technology, each labeled asset can be identified in the supply chain or connected via Internet of Things (IoT), enabling businesses and consumers to identify, locate, authenticate and engage each item. HID IQ 400P label is available in a biodegradable paper-based version. Printable labels for on-metal or industrial use are described in separate datasheets.

HID guarantees each individual RFID IQ Label will perform to specifications. Our quality assurance streamlines processing and encoding to keep your projects on time and on budget.

For high-security applications, innovative HID Trusted Tag® Services combines cryptographically secure NFC IQ Labels with a cloud-based authentication platform, powering frictionless, secure transactions.

For specific needs, LUX-IDent, part of HID, designs and manufactures custom labels in HF and UHF.



### KEY BENEFITS

- **Effortless integration** – Simply apply tags to any print media, packaging or non-metal assets.
- **Ready adoption** – Interoperable with NFC Forum and RAIN UHF compliant devices.
- **Enhanced effectiveness** – Faster, more accurate than QR-codes or text transactions.

### TECHNOLOGY HIGHLIGHTS:

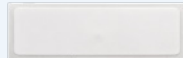
- Standards compliant options
  - NFC Forum Tag Type 2 or 5
  - RAIN UHF RFID
- Label reels may be programmed and printed using standard equipment
- Each tag guaranteed to work

### OTHER OPTIONS:

- Customized labels from [LUX-IDent](#)
- [HID Trusted Tag versions](#)
- [IQ On-metal Labels](#)
- [IQ Pro Labels](#)

**For more information, contact**  
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|                               | IQ Labels                                                                                                                                                                                                         |                                                                                   |                                                                                    |                                                                                              |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|                               | HF                                                                                                                                                                                                                |                                                                                   |                                                                                    | HF + UHF                                                                                     |
|                               | IQ 18 x 18 HF                                                                                                                                                                                                     | IQ 34 x 18 HF                                                                     | IQ 11 x 19 HF                                                                      | IQ Combo 700P - 100 x 21                                                                     |
|                               |                                                                                                                                  |  |  |           |
| Base Model Number             | 629H18-A00                                                                                                                                                                                                        | 629F34-A00                                                                        | 6E3C19                                                                             | CP20070                                                                                      |
| Material                      | Clear PP                                                                                                                                                                                                          | PET White                                                                         | PET Clear                                                                          | PET White                                                                                    |
|                               | ELECTRONIC                                                                                                                                                                                                        |                                                                                   |                                                                                    |                                                                                              |
| Operating Frequency           | 13.56 MHz                                                                                                                                                                                                         |                                                                                   |                                                                                    | (HF) 13.56 MHz /865-928 MHz (Global)                                                         |
| Chip Type                     | ICODE SLIX2                                                                                                                                                                                                       |                                                                                   | NTAG213                                                                            | EM4425                                                                                       |
| Memory                        | 2560 Bit UM                                                                                                                                                                                                       |                                                                                   | 144 byte EEPROM                                                                    | 96 bit EPC, configurable<br>2048 bit for HF and UHF                                          |
| Reading Distance              | Proximity (NFC Tap)                                                                                                                                                                                               |                                                                                   |                                                                                    | Up to 23 ft (7m)                                                                             |
|                               | PHYSICAL                                                                                                                                                                                                          |                                                                                   |                                                                                    |                                                                                              |
| Dimensions                    | 0.7 x 0.7 in<br>(18 x 18 mm)                                                                                                                                                                                      | 1.3 x 0.7 in<br>(34 x 18 mm)                                                      | 0.43 x 0.75 in<br>(11 x 19 mm)                                                     | 3.94 x 0.83 in<br>(100 x 21 mm)                                                              |
| Antenna                       | 0.62 x 0.62 in<br>(16 x 16 mm)                                                                                                                                                                                    | 1.25 x 0.59 in<br>(32 x 15 mm)                                                    | 0.67 x 0.3 in<br>(17 x 8 mm)                                                       | 3.86 x 0.75 in<br>(98 x 19 mm)                                                               |
| Mounting Method               | Self-adhesive                                                                                                                                                                                                     |                                                                                   |                                                                                    |                                                                                              |
| Affixes To                    | Flat, dry and non-metallic surfaces                                                                                                                                                                               |                                                                                   |                                                                                    |                                                                                              |
| Housing Material              | Paper                                                                                                                                                                                                             | PET                                                                               |                                                                                    | Synthetic label                                                                              |
| Color                         | White                                                                                                                                                                                                             |                                                                                   |                                                                                    |                                                                                              |
|                               | CHEMICAL AND MECHANICAL RESISTANCE                                                                                                                                                                                |                                                                                   |                                                                                    |                                                                                              |
| Water                         | IP67, 68° F (20° C), 3.3 ft (1 m) x 35 min                                                                                                                                                                        |                                                                                   |                                                                                    | IP68, 68°F (20°C),<br>1m x 24 h (PET Only)                                                   |
| Environmental Test Conditions | 68° F (20° C), 100 h                                                                                                                                                                                              |                                                                                   |                                                                                    |                                                                                              |
| Vibration                     | IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h]                                                                                                                                                                   |                                                                                   |                                                                                    | MIL STD 810-G                                                                                |
| Shock                         | IEC 60068-2-27:2008 [40 g, 18 ms, 6 axis, 2000 times]                                                                                                                                                             |                                                                                   |                                                                                    | MIL STD 810-G                                                                                |
|                               | THERMAL                                                                                                                                                                                                           |                                                                                   |                                                                                    |                                                                                              |
| Storage                       | 68° to 77° F (20 °C to 25°C),<br>40-50% RH (FINAT)<br>1 year in the original package                                                                                                                              |                                                                                   | -67° to +257° F (- 55 °C<br>to +125 °C) (1x1000h)                                  | -40° to +185° F<br>(-40° to +85° C)                                                          |
| Operating                     | -4° to +176° F<br>(- 20 °C to +80 °C)                                                                                                                                                                             |                                                                                   | -4° to +158° F (- 20 °C to<br>+70 °C)                                              | -40° to +185° F<br>(-40° to +85° C)                                                          |
|                               | OTHER                                                                                                                                                                                                             |                                                                                   |                                                                                    |                                                                                              |
| Standards                     | ISO 15693 - NFC Tag Type 5                                                                                                                                                                                        |                                                                                   | ISO 14443A - NFC Tag<br>Type 2                                                     | ISO 15693 - NFC Tag Type 5,<br>EPC Global Class 1 Gen 2, ISO/IEC 18000-6C                    |
| Printers Compatibility        |                                                                                                                                                                                                                   |                                                                                   |                                                                                    | Not compatible with off the shelf<br>RFID printers. Can be supplied pre-printed/<br>encoded. |
| Options                       | HID Trusted Tag® (NFC Type 4) or alternative NTAG chips; Dry inlays; custom<br>printing.<br>Imprint of black register bar between labels when precise positioning is required<br>(add "R" to end of part number). |                                                                                   |                                                                                    |                                                                                              |
| Box Size                      | 5,000 pcs.                                                                                                                                                                                                        |                                                                                   |                                                                                    | 1,020 pcs.                                                                                   |
| Warranty                      | 1 Year                                                                                                                                                                                                            |                                                                                   |                                                                                    |                                                                                              |

|                                                    | IQ Labels                                                                         |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|----------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                    | UHF                                                                               |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                                                    | IQ 48 x 13                                                                        | IQ 76 x 16                                                                        | IQ 97 x 12                                                                         |                                                                                     | IQ 400P - 46x12                                                                     |                                     | IQ 800P - 95x21                                                                     | IQ 1000P - 52x52                                                                    | IQ 1200G - 92x26                                                                    | IQ 1350P - 96x88                                                                    |
|                                                    |  |  |  |  |  |                                     |  |  |  |  |
| Base Model Number                                  | 6M6F47                                                                            | 6M6F73-A00 (acrylic)                                                              | 6M6F98-A00                                                                         | 6M2F98                                                                              | CP20020 (Logistics)                                                                 | CP15924                             | CP15907                                                                             | CP20635                                                                             | CP11485 - EU<br>CP17806 - US                                                        | CP16443                                                                             |
|                                                    | ELECTRONIC                                                                        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Operating Frequency                                | 865-928 MHz (Global)                                                              |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                     |                                                                                     |                                                                                     | (EU) - 865-868 MHz (ETSI)<br>(US) - 902-928 MHz (FCC)                               | 865-928 MHz (Global)                                                                |
| Chip Type                                          | M730                                                                              |                                                                                   |                                                                                    | UCODE 9                                                                             | M730                                                                                |                                     |                                                                                     | M830                                                                                | M730                                                                                |                                                                                     |
| Memory                                             | 128 bit EPC + 96 bit TID                                                          |                                                                                   |                                                                                    | 96 bit EPC                                                                          | 128 bit EPC + 96 bit TID                                                            |                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| UHF Reading Distance<br>2 W reader ERP, free space | Up to 32.8 ft (10 m)                                                              | Up to 46 ft (14 m)                                                                | Up to 39 ft (12 m)                                                                 |                                                                                     | Up to 26.2 ft (8 m)                                                                 |                                     | Up to 49.2 ft (15 m)                                                                | Up to 37.7 ft (11.5 m)                                                              | Up to 59 ft (18 m)                                                                  | Up to 46 ft (14 m)                                                                  |
|                                                    | PHYSICAL                                                                          |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Dimensions                                         | 1.8 × 0.5 in (47.5 × 13.38 mm)                                                    | 2.9 x 0.6 in (76 x 16 mm)                                                         | 3.8 × 0.5 in (98 × 12.31 mm)                                                       | 3.8 × 0.5 in (97 × 12.31 mm)                                                        | 1.83 x 0.49 in (46.5 x 12.4 mm)                                                     |                                     | 3.74 x 0.83 in (95 x 21 mm)                                                         | 2.05 x 2.05 in (52 x 52 mm)                                                         | 3.62 x 1 in (92 x 26 mm)                                                            | 3.78 x 3.46 in (96 x 88 mm)                                                         |
| Antenna                                            | 1.7 × 0.4 in (44.4 x 10.3 mm)                                                     | 2.8 x 0.4 in (72 x 12 mm)                                                         | 3.5 × 0.4 in (90 x 10 mm)                                                          |                                                                                     | 1.67 x 0.41 in (42.4 x 10.325 mm)                                                   |                                     | 3.28 x 0.67 in (93 x 19 mm)                                                         | 2 x 2 in (50 x 50 mm)                                                               | 3.46 x 0.86 in (87.9 x 22 mm)                                                       | 3.62 x 0.82 in (92 x 21 mm)                                                         |
| Mounting Method                                    | Self-adhesive                                                                     |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                     |                                                                                     |                                                                                     |                                                                                     | Cable ties or Bands                                                                 |
| Affixes To                                         | Flat, dry and non-metallic surfaces                                               |                                                                                   |                                                                                    |                                                                                     | Cardboard                                                                           | Flat, dry and non-metallic surfaces |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Housing Material                                   | PET                                                                               |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Color                                              | White                                                                             |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                                                    | CHEMICAL AND MECHANICAL RESISTANCE                                                |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Water                                              | IP67, 68° F (20° C), 3.3 ft (1 m) × 35 min                                        |                                                                                   |                                                                                    |                                                                                     | IP68, 68° F (20° C), 1 m × 24 h (PET only)                                          |                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Environmental Test Conditions                      | 68° F (20° C), 100 h                                                              |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Vibration & Shock                                  | IEC 68.2.6 / IEC 60068-2-27:2008                                                  |                                                                                   |                                                                                    |                                                                                     | MIL STD 810-G                                                                       |                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                                                    | THERMAL                                                                           |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Storage                                            | -40° to +185° F (-40° to +85° C)                                                  | -40° to +185° F (-40° to +85° C)                                                  |                                                                                    | -4° to 158°F (-20° to +70°C)<br>(1 x 1000 h)                                        |                                                                                     | -40° to +185° F (-40° to +85° C)    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Operating                                          | -40° to +185° F (-40° to +85° C)                                                  | -40° to +185° F (-40° to +85° C)                                                  |                                                                                    | -4° to +158° F (- 20 °C to +70 °C)                                                  |                                                                                     | -40° to +185° F (-40° to +85° C)    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                                                    | OTHER                                                                             |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Standards                                          | EPC Global Class 1 Gen 2, ISO/IEC 18000-6C                                        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Printers Compatibility                             |                                                                                   |                                                                                   |                                                                                    |                                                                                     | Zebra ZT410R, Zebra ZT411R, Sato CL4NX Plus, Sato CL6NX Plus, TSC T6000e            |                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Options                                            | Personalization on demand                                                         |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Box Size                                           | 2000 pcs.                                                                         | 4,000 pcs                                                                         | 5,000 pcs                                                                          |                                                                                     | 5,000 pcs                                                                           | 1,000 pcs                           |                                                                                     | 2,040 pcs                                                                           | 1,000 pcs                                                                           |                                                                                     |
| Warranty                                           | 1 Year                                                                            |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |



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