

# IQ On-Metal Labels

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



HID IQ On-Metal Labels are small, thin self-adhesive NFC or RAIN® UHF tags for on-metal use. These white PET labels may be encoded and printed in standard label printers to apply logos, bar-codes, QR codes or text (except IQ OM LR\*). Their flexible special shielding allows application on flat or curved metallic objects like liquid containers, laptops, pipes or machinery.

HID on-metal Labels come in different form factors to suit various applications in an optimal size to performance ratio. NFC labels are NFC Tag Type 2 compliant and may be used with any NFC compatible phone or device. RAIN® RFID UHF labels are available in FCC (US) or ETSI (EU) variants. All labels are delivered on reels for easy processing in a label printer.

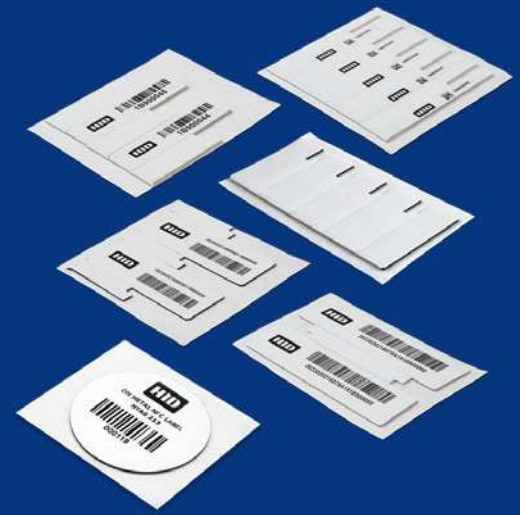
For industrial applications, HF and UHF on-metal labels enhance the speed and accuracy of inventory and process management systems. Using

RAIN® RFID 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 guarantees each individual RFID IQ Labels tag will perform to specifications. Our quality assurance streamlines processing and encoding to keep your projects on time and on budget.

These easy to use labels are great for tracking IT assets in data centers and offices, including computers and equipment such as furniture or small returnable transport items (RTIs). The range of sizes and high temperature capabilities also broadens the use cases to manufacturing, warehouses, hospitals, laboratories and even weaponry.

Printable labels for off-metal use or labels that include passive sensors for temperature and humidity, are described in a separate datasheet. 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 proof-of-presence, sweepstakes or product authentication. Ask your HID representative to demonstrate the potential of HID Trusted Tag Services.



## KEY BENEFITS:












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

## TECHNOLOGY HIGHLIGHTS:

- Standards compliant options
  - NFC Forum Tag Type 2
  - RAIN UHF RFID
- Label reels may be programmed and printed using standard equipment
- Each tag guaranteed to work
- Versions for on- or off-metal use
- Peel and stick flexibility plus options to have labels supplied individually or on rolls allows simple, cost effective and efficient asset management.

## OTHER OPTIONS:

- Customized labels from [LUX-IDent](#)
- [HID Trusted Tag](#) versions
- [IQ Non-metal Labels](#)
- [IQ Pro Labels](#)
- [Sense Passive Tags](#)

|  | IQ OM Label   |   |   |   |   |   |  |   |   |   |   |
|--|---|---|---|---|---|---|--|---|---|---|---|
|  | HF  | UHF   |   |   |   |   |  |   |   |   |   |
|  | IQ OM 5 HF  | IQ OM 150   | IQ OM 300   | IQ OM 350   | IQ OM 600   | IQ OM 600 GS  | IQ OM 750  | IQ OM LR600   | IQ OM LR1000  | IQ OM LR1200  | IQ OM LR1200 GS   |
|  |    |  |  |  |  |  |  |  |  |  |  |
| <b>Base Model Number</b>                                       | 6E3M30  | CP16080 - EU<br>CP16082 - US  | CP14955 - EU<br>CP14953 - US  | CP15712 - EU<br>CP15711 - US  | CP16070 - EU<br>CP16072 - US  | CP16595 -<br>worldwide  | CP16702-01 - EU<br>CP16658-01 - US   | CP14622 - EU<br>CP14623 - US  | CP16329 - EU<br>CP16331 - US  | CP12758 - EU<br>CP12759 - US  | CP16333 -<br>worldwide  |
|  | <b>ELECTRONIC</b>   |   |   |   |   |   |  |   |   |   |   |
| <b>Operating Frequency</b>                                     | 13.56 MHz   | (EU) - 865-868 MHz (ETSI)<br>(US) - 902-928 MHz (FCC)                             |   |   |   | 865-928 MHz<br>(Global)   | (EU) - 865-868 MHz (ETSI)<br>(US) - 902-928 MHz (FCC)                              |   |   |   | 865-928 MHz<br>(Global)   |
| <b>Chip Type</b>   | NTAG 213  | M730  |   |   |   |   | Monza R6-P   |   | M730  | Monza R6-P  | M730  |
| <b>Memory</b>  | 144 byte EEPROM   | 128 bit EPC   |   |   |   |   | 128/96 bit EPC,<br>32/64 bit UM  |   | 128 bit EPC   | 128/96 bit EPC,<br>32/64 bit UM   | 128 bit EPC   |
| <b>UHF Reading Distance<br/>2 W reader ERP,<br/>free space</b> |   | Up to 5.9 ft (1.8 m)  | Up to 12.8 ft<br>(3.9 m)  | Up to 12.5 ft (3.8 m)   | Up to 21.6 ft (6.6 m)   | Up to 23 ft (7 m)   | Up to 24.6 ft<br>(7.5 m)   | Up to 23 ft (7 m)   | Up to 36 ft (11 m)  | Up to 49.2 ft<br>(15 m)   | Up to 43.3 ft<br>(13.2 m)   |
|  | <b>PHYSICAL</b>   |   |   |   |   |   |  |   |   |   |   |
| <b>Dimensions</b>  | ø 1.2 x 0.03 in<br>(30 x 0.8 mm)  | 2.2 x 0.5 x 0.05 in<br>(55 x 12.5 x 1.2 mm)                                       | 2.5 x 0.2 x<br>0.05 in<br>(65 x 6 x 1.3<br>mm)                                    | 1.9 x 0.5 x 0.05 in<br>(50 x 12.5 x 1.3 mm)                                       | 3.78 x 0.94 x 0.05 in<br>(100 x 24 x 1.3 mm)                                      | 2.9 x 0.98 x 0.05 in<br>(75 x 25 x 1.35 mm)                                       | 2.36 x 0.94 x<br>0.06 in<br>(60 x 24 x 1.4 mm)                                     | 1.9 x 0.5 x 0.14 in<br>(50 x 12.5 x 3.8 mm)   | 1.8 x 0.8 x 0.14 in<br>(45 x 20 x 3.8 mm)   | 2.9 x 1.0 x 0.10 in<br>(75 x 25 x 2.5 mm)   |   |
| <b>Mounting Method</b>   | Self-adhesive / optional: Acrylic glue  |   |   |   |   |   |  |   |   |   |   |
| <b>Affixes To</b>  | Metal surfaces  |   |   |   |   |   |  |   |   |   |   |
| <b>Housing Material</b>  | PET (front), printable<br>with resin ribbon   | Synthetic label   | Premium Syn-<br>thetic Label  | Synthetic label   |   |   | Synthetic label with<br>transparent over<br>laminates                              |   | Synthetic label with transparent over laminate                                      |   |   |
| <b>Weight</b>  | 0.07 oz (2 g)   | 0.01 oz (0.25 g)  | 0.01 oz (0.27 g)  | 0.01 oz (0.5 g)   | 0.07 oz (2 g)   | 0.01 oz (0.5 g)   | 0.04 oz (1.07 g)   | 0.02 oz (0.8 g)   |   | 0.06 oz (1.66 g)  |   |
| <b>Color</b>   | White   |   |   |   |   |   |  |   |   |   |   |
|  | <b>CHEMICAL AND MECHANICAL RESISTANCE</b>   |   |   |   |   |   |  |   |   |   |   |
| <b>Water</b>   | IP68, 68° F (20° C), 3.3 ft (1 m) x 24h   |   |   |   |   |   |  |   |   |   |   |
| <b>Withstands Exposure To</b>                                  | Vegetable oil, Motor oil, acetone wipe (with overlaminates)   |   |   |   |   |   |  |   |   |   |   |
| <b>Environmental Test Conditions</b>                           | 68° F (20° C), 168 h  |   |   |   |   |   |  |   |   |   |   |
| <b>Vibration &amp; Shock</b>                                   | IEC 68.2.6 / IEC<br>68.2.29   | MIL STD 810-G   |   |   |   |   |  |   |   |   |   |
|  | <b>THERMAL</b>  |   |   |   |   |   |  |   |   |   |   |
| <b>Storage</b>   | -4° to +158° F<br>(-20° to +70° C)  | -40° to +158° F (-40° to +85° C)  |   |   |   |   |  |   |   |   |   |
| <b>Operating</b>   | -4° to +158° F<br>(-20° to +70° C)  | -40° to +158° F (-40° to +85° C)  |   |   |   |   |  |   |   |   |   |
|  | <b>OTHER</b>  |   |   |   |   |   |  |   |   |   |   |
| <b>Standards</b>   | ISO/IEC 14443A, NFC<br>Forum Tag Type 2   | EPC Global Class 1 Gen 2, ISO 18000-6C  |   |   |   |   |  |   |   |   |   |
| <b>Options</b>   | Custom printing and encoding. NOTE: IQ OM LR* Labels can only be pre-printed by HID on request, since they are too thick to be processed by a standard label printer on-site. |   |   |   |   |   |  |   |   |   |   |
| <b>Box Size</b>  | 500 pcs. / roll   | 1,000 pcs. / roll   | 1,000 pcs. / roll   | 900 pcs. / roll   | 500 pcs. / roll   | 500 pcs. / roll   | 500 pcs. / roll  | 380 pcs/roll  | 250 pcs. / roll   | 900 pcs. / roll   | 900 pcs. / roll   |
| <b>Warranty</b>  | 1 Year  |   |   |   |   |   |  |   |   |   |   |



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