# IQ Labels Non-Metal

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

HID Global 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.
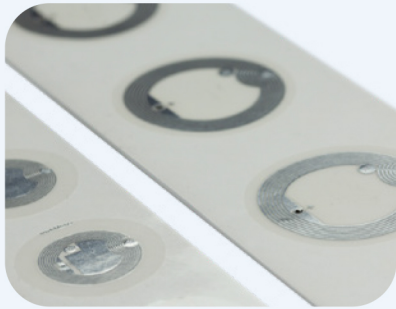
Promotional marketers use IQ Labels to quickly and cost-effectively integrate digital touch points into physical media, such as posters, packaging, point-of-purchase displays, and magazines. With IQ Labels in place, smartphone-wielding customers can interact in real time with your brand. Wireless technology 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® 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. Printable labels for on-metal or industrial use are described in separate datasheets.

HID Global 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 Global, 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 RFID compliant devices.
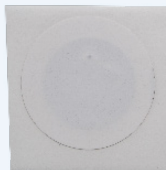- **Enhanced effectiveness –** Faster, more accurate than QR-codes or text transactions.

TECHNOLOGY HIGHLIGHTS:
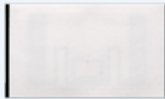
- Standards compliant options
  – NFC Forum Tag Type 2, 4 or 5
  – RAIN UHF RFID
- Label reels may be programmed and printed using standard equipment
- Each tag guaranteed to work

OTHER OPTIONS:

- Customized labels from LUX-IDent
- HID Trusted Tag versions
- IQ On-metal Labels
- IQ Pro Labels

For more information, contact tagsales@hidglobal.com

HID

	IQ Labels				
	HF				
	IQ 18 x 18 HF	**IQ 19 x 11 HF**	**IQ 29 HF**	**IQ 30 x 30 HF**	**IQ 40 HF**
Base Model Number	629H18-A00	6E3C19	6E3E29	6E3F30	6E3E40
Material	Clear PP	PET Clear	Paper Label	PET White	Paper Label
ELECTRONIC					
Operating Frequency	13.56 MHz				
Chip Type	ICODE SLIX2	NTAG213			
Memory	2560 Bit UM	144 byte EEPROM			
UHF Reading Distance 2 W reader ERP, free space	Vicinity	Proximity (NFC Tap)			
PHYSICAL					
Dimensions	0.7 × 0.7 in (18 × 18 mm)	0.74 × 0.4 in (19 × 11 mm)	ø 1.1 in (29 mm)	1.18 × 1.18 in (30 × 30 mm)	ø 1.6 in (40 mm)
Antenna	0.62 × 0.62 in (16 × 16 mm)	0.67 × 0.3 in (17 × 8 mm)	ø 0.8 in (20 mm)	0.9 × 0.9 in (25 × 25 mm)	ø 1.4 in (35 mm)
Mounting Method	Acrylic Self-adhesive	Self-adhesive		Acrylic Self-adhesive	Self-adhesive
Affixes To	Flat, dry and non-metallic surfaces				
Housing Material	PP	PET	Paper	PET	Paper
Color	White				
CHEMICAL AND MECHANICAL RESISTANCE					
Water	IP67, 68° F (20° C), 3.3 ft (1 m) × 35 min				
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]				
Shock	IEC 68.2.29 [40 g, 18 ms, 6 axis, 2000 times]				
THERMAL					
Storage	68° to 77° F (20 °C to 25°C), 40-50% RH (FINAT) 1 year in the original package				
Operating	-4° to +176° F (- 20 °C to +80 °C)	-4° to +158° F (- 20 °C to +70 °C)			
OTHER					
Standards	ISO 14443A - NFC Tag Type 5	ISO 14443A - NFC Tag Type 2			
Options	Alternative chips including encryption and HID Trusted Tag® (NFC Type 4); Dry inlays; custom printing. Imprint of black register bar between labels when precise positioning is required (add "R" to end of part number).				
Box Size	5,000 pcs.		2,000 pcs.	2,500 pcs.	1,000 pcs.
Warranty	1 Year				

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IQ Labels — UHF

	IQ 19 x 13	IQ 48 x 13	IQ 43 x 18	IQ 54 x 34	IQ 73 x 21	IQ 70 x 40	IQ 92 x 28	IQ 97 x 12	IQ 97 x 12	IQ 400P - 46x12	IQ 800P - 95x21
Base Model Number	6M2E19	6M6F47	6M6F43	6M6E54	6M6F73 6M6F73-A00 (acrylic)	6M6N74	6H2E92	6M6F98	6M2F98	CP15924	CP15907
ELECTRONIC											
Operating Frequency	860 to 960 MHz										
Chip Type	UCODE 9	M730								UCODE 9	M730
Memory	96 bit EPC	128 bit EPC + 96 bit TID								96 bit EPC	128 bit EPC + 96 bit TID
UHF Reading Distance 2 W reader ERP, free space	Up to 0.6 ft (20 cm)	Up to 32.8 ft (10 m)			Up to 46 ft (14 m)	Up to 19.6 ft (6 m)	Up to 46 ft (14 m)	Up to 39 ft (12 m)		Up to 16.4 ft (5 m)	Up to 32.8 ft (10 m)
PHYSICAL											
Dimensions	0.7 × 0.5 in (19.05 × 12.7 mm)	1.8 × 0.5 in (47.5 × 13.38 mm)	1.7 × 0.7 in (43 × 18 mm)	2.1 × 1.3 in (54 × 34 mm)	2.8 × 0.8 in (73.5 × 21.2 mm)	2.7 × 1.6 in (69.8 × 40 mm)	3.6 × 1.1 in (92 × 28 mm)	3.8 × 0.5 in (98 × 12.31 mm)	3.8 × 0.5 in (97 × 12.31 mm)	1.83 × 0.49 in (46.5 × 12.4 mm)	3.74 × 0.83 in (95 × 21 mm)
Antenna	0.7 × 0.3 in (12 × 9 mm)	1.7 × 0.4 in (44.4 × 10.3 mm)	1.6 × 0.6 in (40 × 15 mm)	1.2 × 1.9 in (30 × 50 mm)	2.7 × 0.5 in (70 × 14 mm)	1.9 × 1.2 in (50 × 30 mm)	0.9 × 3.4 in (24 × 88 mm)	3.5 × 0.4 in (90 × 10 mm)		1.67 × 0.41 in (42.4 × 10.325 mm)	3.28 × 0.67 in (93 × 19 mm)
Mounting Method	Self-adhesive										
Affixes To	Flat, dry and non-metallic surfaces										
Housing Material	Paper	PET		Paper	PET	Nylon	Paper	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	
Environmental Test Conditions	68° F (20° C), 100 h										
Vibration & Shock	IEC 68.2.6 / IEC 68.2.29									MIL STD 810-G	
THERMAL											
Storage	-4° to +158° F (- 20 °C to +70 °C)	-40° to +185° F (-40° to +85° C)		On reel, Shelf life max. 1 year at 14° to 104°F (-10° to +40°C), 30-70% relative humidity	-40° to +185° F (-40° to +85° C)		On reel, Shelf life max. 1 year at 14° to 104°F (-10° to +40°C), 30-70% relative humidity	-4° to 158°F (-20° to +70°C) (1 x 1000 h)		-40° to +185° F (-40° to +85° C)	
Operating	-4° to +158° F (- 20 °C to +70 °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)		-4° to +158° F (- 20 °C to +70 °C)			-40° to +185° F (-40° to +85° C)	
OTHER											
Standards	UHF EPC Class 1 Gen 2, ISO 18000-63										
Options	Personalization on demand										
Box Size	5,000 pcs	2000 pcs.			5,000 pcs		2,000 pcs.	5,000 pcs			1,000 pcs
Warranty	1 Year										

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