HID®

Logi Tag™
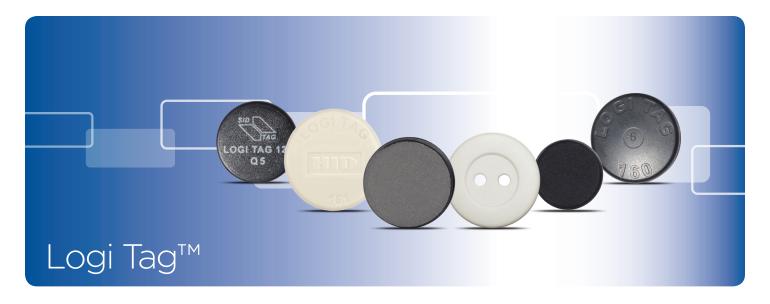
DISCREET RFID TAGS THAT WITHSTAND LIQUID IMMERSION, HIGH PRESSURE CONDITIONS AND EXTREME TEMPERATURES

- **Inconspicuous** – Compact form factors conceal easily in textile assets, hand tools or small equipment.

- **Durable** – Resistant to extreme temperature, chemicals, fluids, industrial detergents and high pressure.

- **Powerful** – Rapid, accurate asset identification and data storage, with anti-collision functionality for simultaneous processing of multiple items.

TECHNOLOGY HIGHLIGHTS:
- LF 125 kHz or HF 13.56 MHz / NFC
- ISO 15693/18000-3 (HF)
- 64-bit UID; up to 8KB read-write user memory, crypto options (Vigo™ 2K)
- Anti-collision, multi-read capable (HF)
- High chemical and mechanical resistance
- Temperature resistant up to 347° F (175° C)
- Options for mounting on metal or non-metal surfaces, or radiation resistant FRAM

APPLICATION AREAS:
- ASSET TRACKING AND LOGISTICS
  - Inventory
  - Tools and small equipment
- LAUNDRY
  - Automated accounting of cleaning
  - Automated sorting and inventory
  - Clothing, uniforms
  - Commercial laundry
  - Owner identification
- MEDICAL AND HEALTH
  - Hospital laundry
  - Medical and surgical accessories

HID Global Logi Tag™ transponders endure severe conditions while protecting data integrity. These small, thin discs enable discreet placement in a broad range of applications.

The smallest Logi Tag discs are ideal for tagging industrial tools and small equipment. Among the smallest HF tags available, Logi Tag 081 and 121 units are assembled using patented DBond™ Vigo™ technology that enables HID Global to produce tags in thinner, smaller formats without compromising performance. They mount with industrial adhesives, with options for metal or non-metal surfaces. Logi Tag HF transponders are NFC Tag Type 5 compliant when formatted with NDEF data structure.

Uniform management companies use Logi Tag transponders to increase garment productivity by 20 percent, reduce throughput by 15 percent, and decrease stock requirements per customer by an average of 12 percent. As part of a commercial laundry logistics system, Logi Tag discs ensure accurate item counting and documentation, while enabling automatic billing and real-time inventory control.

Logi Tag discs enable medical facilities automatically track clothing, linens, rags, surgical sponges, and life-saving equipment. Effective tracking of reusable assets and verification of cleaning and sterilization procedures ensures better patient and staff safety through improved infection control.

Logi Tag discs are easily sewn into the hem or seam of a garment, uniform, napkin, tablecloth or runner. They may also be affixed to custodial supplies, such as mats, mops, washrags and towels. The Logi Tag Button 162 transponder is indistinguishable from ordinary buttons, and can be sewn onto clothing with standard stitching equipment and processes.

Logi Tag transponders empower logistics applications that are optimized via radio frequency identification (RFID) technology, enabling more accurate, efficient asset management and inventory control processes. Logi Tag discs are compliant with standard RFID readers and modules, and are ATEX certified for safe use in potentially explosive environments. LogiTag 161 is also available in a radiation resistant, high-memory FRAM option for most demanding application scenarios.

SPECIFICATIONS

	120			160	081	121	121 OM	161		162 Button
	![Logi Tag 120 HTS 2048]	![Logi Tag 120 Q5]	![Logi Tag 120 Unique]	![Logi Tag 160]	![081]	![121]	![121 OM]	![Logi Tag 161]	![Logi Tag 161]	![162 Button]
Base Model Number	624115	612115	601115	601106	6A9081-010	6A9121-010 (Vigo 1K), 6D0121-010 (Vigo 2K), 629121-010 (SLIX)	6A9121-310 (Vigo 1K), 6D0121-310 (Vigo 2K) 629121-310 (SLIX)	629108-411	634108-410 (F-Mem 2K), 6D1108-410 (F-Mem 8K)	629110-411
ELECTRONIC										
Operating Frequency	125 kHz				13.56 MHz					
Chip Type	Hitag S	Q5	Unique			Vigo or ICODE SLIX		ICODE SLIX2	F-Mem	ICODE SLIX2
Memory	2048 bit EEPROM	264 bit EEPROM	64 bit read-only			1024 or 2048 bit (Vigo) or 896 bit UM (ICODE SLIX)		2560 bit UM	2 or 8 Kbyte FRAM	2560 bit UM
Anti-Collision	Yes					Yes		Yes		
Reading Distance [4 W reader]						Proximity		Up to 13.4 in (34 cm)		
PHYSICAL										
Dimensions (for exact dimension tolerances, request drawing)	Ø 0.5 × 0.1 in (12 x 2 mm)			Ø 0.6 × 0.1 in (16 x 3 mm)	Ø 0.31 × 0.1 in (8 x 2 mm)	Ø 0.49 × 0.1 in (12.4 x 2 mm)		Ø 0.6 × 0.1 in (16 x 3 mm)		Ø 0.6 × 0.1 in (16 x 2.5 mm)
Mounting Method	Sew into, glue, embed									Sew on
Embeds In / Affixes To	Clothing and Textiles, non-metal Tools and Boxes					Non-metal	Metal	Clothing and Textiles, non-metal Tools and Boxes		
Housing Material	PPS with epoxy potting		Epoxy		ABS with epoxy potting	PPS with epoxy potting		PPS		
Color	Black							White		
Weight	0.02 oz (0.6 g)			0.04 oz (1.1 g)	0.004 oz (0.11 g)	0.01 oz (0.4 g)		0.04 oz (1.0 g)		0.03 oz (0.85 g)
CHEMICAL AND MECHANICAL RESISTANCE										
Water	IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h							IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h		
Pressure	70 bars, 3 min isostatic							70 bars, 3 min isostatic		
Withstands Exposure To	Bleach (5%), caustic soda (pH 11), formic acid (pH7), gasoline, HCL (10%), oil, petroleum, salt water				Fuel B, mineral and vegetable oils, petroleum, salt mist			Hydrogen peroxide (5%), industrial laundry detergent (pH 10 - 11), neutralizing agent, perchlorethylen (100%)		
Environmental Test Conditions	68° F (20° C), 100 h									
Vibration	IEC 68.2.6 [10g, 10...2000Hz, 3 axis, 2.5 h]									
Shock	IEC 68.2.29 [40g, 18ms, 6 axis, 2000 x]									
Drop Test	100 x 6 ft (1.8 m)									
Axial/Radial Force	800 N / 500 N, 10 sec			1000 N / 1000 N, 10 sec	800 N / 500 N, 10 sec			800 N / 500 N, 10 sec		
THERMAL										
Storage	-40° to +266° F (-40° to 130° C), 1000 h			-13° to +248° F (-25° to +120° C), 1000 h	-40° to +194° F (-40° to +90° C), 1000 h			-40° to +185° F (-40° to +85° C), 1000 h		
Operating	-13° to +185° F (-25° to +85° C)	-40° to +185° F (-40° to +85° C)				-40° to +194° F (-40° to +90° C)		-13° to 185° F (-25° to +85° C)		
Shock/Fatigue	68° to +320° F (20°C to +160°C), 100 x 5 min with 30 sec transition				-40° to +194° F (-40°C to +90°C), 100 x 5 min with 30 sec transition			68° to +356° F (20°C to +180°C), 300 x 5 min with 30 sec transition		
Peak	320° F (160° C), 35 h							248° F (120° C), 100 h, 428° F (220° C), 30 sec		248° F (120° C), 100 h
Spin dryer / tunnel finisher (set point)				347° F (175° C), 100 x 10 min				347° F (175° C), 100 x 10 min		
OTHER										
Standards	EN 60079-0:2009, EN 60079-11:2007, EN 50303:2001				EN 60079-0:2009, EN 60079-11:2007, EN 50303:2001 ISO 15693, ISO 18000-3 , NFC Tag Type 5 (optional)					
Options	Custom printed logo				Custom printed logo, Vigo chip 1.6K			Custom embossed logo, UID laser engraving		Laser engraving
Box Size	2,500 pcs			2,000 pcs	5,000 pcs	2,500 pcs		2,000 pcs		
Warranty	2 Years									