



# 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
- ISO 15693/18000-3 (HF)
- 64-bit UID; up to 1024 bit read-write user memory
- 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

### 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 newest Logi Tag discs are ideal for tagging industrial tools and small equipment. Among the smallest HF tags available, Logi Tag 121 units are assembled using patented direct bonding 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.

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.

## SPECIFICATIONS

	120		160	121	121 OM	161	162 Button	
<b>Base Model Number</b>	624115	612115	601115	601106	6A9121-010	6A9121-310	629108-400	685110-400
<b>ELECTRONIC</b>								
<b>Operating Frequency</b>	125 kHz			13.56 MHz		13.56 MHz		
<b>Chip Type</b>	Hitag S	Q5	Unique		Vigo	I-Code SLix	I-Code SLix-L	
<b>Memory</b>	2048 bit EEPROM	264 bit EEPROM	64 bit read-only		64 bit UID, 1024 bit EEPROM	1024 bit EEPROM, 896 bit user memory	512 bit EEPROM, 256 bit user memory	
<b>Anti-Collision</b>	Yes				Yes	Yes		
<b>Reading Distance [4 W reader]</b>				proximity		Up to 13.4 in (34 cm)		
<b>PHYSICAL</b>								
<b>Dimensions</b>	Ø 0.5 x 0.1 in (12 x 2 mm)		Ø 0.6 x 0.1 in (16 x 3 mm)	Ø 0.5 x 0.1 in (12 x 2 mm)		Ø 0.6 x 0.1 in (16 x 3.0 mm)	Ø 0.6 x 0.1 in (16 x 2.5 mm)	
<b>Mounting Method</b>	Sew into, glue, embed					Sew on		
<b>Embeds In / Affixes To</b>	Clothing and Textiles, non-metal Tools and Boxes				Metal		Clothing and Textiles, non-metal Tools and Boxes	
<b>Housing Material</b>	PPS with epoxy potting		Epoxy	PPS with epoxy potting		PPS		
<b>Color</b>	Black					White		
<b>Weight</b>	0.02 oz (0.6 g)		0.04 oz (1g)	0.01oz(0.3g)		0.04 oz (1.0 g)	0.03 oz (0.85 g)	
<b>CHEMICAL AND MECHANICAL RESISTANCE</b>								
<b>Water</b>	IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h							
<b>Pressure</b>	70 bars, 3 min isostatic							
<b>Withstands Exposure To</b>	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%)		
<b>Environmental Test Conditions</b>	68° F (20° C), 100 h							
<b>Vibration</b>	IEC 68.2.6 [10g, 10...2000Hz, 3 axis, 2.5 h]							
<b>Shock</b>	IEC 68.2.29 [40g, 18ms, 6 axis, 2000 x]							
<b>Drop Test</b>	100 x 6 ft (1.8 m)							
<b>Axial/Radial Force</b>	800 N / 500 N, 10 sec		1000 N / 1000 N, 10 sec	800 N / 500 N, 10 sec		1000 N / 1000 N, 10 sec		
<b>THERMAL</b>								
<b>Storage</b>	-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		
<b>Operating</b>	-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)		
<b>Shock/Fatigue</b>	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 +320° F (20°C to +160°C), 100 x 5 min with 30 sec transition		
<b>Peak</b>	320° F (160° C), 35 h					248° F (120° C), 100 h, 428° F (220° C), 30 sec	248° F (120° C), 100 h	
<b>Spin dryer / tunnel finisher (set point)</b>			347° F (175° C), 100 x 10 min			347° F (175° C), 100 x 10 min		
<b>OTHER</b>								
<b>Standards</b>	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				
<b>Options</b>	Custom printed logo			Custom printed logo		Custom embossed logo, UID laser engraving		
<b>Box Size</b>	2,500 pcs		2,000 pcs	2,500 pcs		2,000 pcs		
<b>Warranty</b>	2 Years							

