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 2048 bit 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

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 081 and 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. 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.

SPECIFICATIONS

	120			160	081	121	121 (OM)	161	162 Button
Base Model Number	624115	612115	601115	601106	6A9081-010	6A9121-010 (1K), 6D0121-010 (2K)	6A9121-310 (1K OM), 6D0121-310 (2K OM)	629108-400	685110-400
ELECTRONIC									
Operating Frequency	125 kHz				13.56 MHz				
Chip Type	Hitag S	Q5	Unique		Vigo			ICODE SLIX	ICODE SLIX-L
Memory	2048 bit EEPROM	264 bit EEPROM	64 bit read-only		64 bit UID, 1024 bit EEPROM or 64 bit UID, 2048 bit EEPROM			1024 bit EEPROM, 896 bit user memory	512 bit EEPROM, 256 bit user memory
Anti-Collision	Yes				Yes			Yes	
Reading Distance [4 W reader]					Proximity			Up to 13.4 in (34 cm)	
PHYSICAL									
Dimensions	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 0.5 × 0.1 in (12 x 2 mm)		Ø 0.6 × 0.1 in (16 x 3.0 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			1000 N / 1000 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 +320° F (20°C to +160°C), 100 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	
Box Size	2,500 pcs			2,000 pcs	5,000 pcs	2,500 pcs		2,000 pcs	
Warranty	2 Years								

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