



Logi Tag™



DISCREET RFID TAGS THAT WITHSTAND THE RIGORS OF LIQUID IMMERSION, HIGH PRESSURE AND EXTREME TEMPERATURE

- **Inconspicuous** - compact form factors conceal easily in clothing and textile assets
- **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
- 64-bit UID; 256-bit or 896-bit read/write user memory for HF
- Anti-collision, multi-read capable (HF)
- High chemical resistance, including HCL, bleach, perchloroethylene, IP68
- High mechanical resistance, including press extraction up to 20 bars
- Temperatures up to 347° F (175° C)

APPLICATION AREAS:

- **ASSET TRACKING AND LOGISTICS**
 - Inventory management
 - Item-level tracking
- **LAUNDRY**
 - Automated accounting of cleaning
 - Automated sorting and inventory
 - Clothing, uniforms
 - Commercial laundry
 - Owner identification
- **MEDICAL AND HEALTH**
 - Hospital laundry
 - Medical and surgical accessories

The HID Global Logi Tag™ family of products enables uniform companies, commercial cleaners and medical facilities to automatically track clothing, linens, rags, surgical sponges and other assets, resulting in more accurate, efficient inventory management.

Logi Tag transponders empower logistics applications that are optimized via radio frequency identification (RFID) technology. These applications enable uniform management companies to more accurately control lifecycles, increasing garment productivity by 20 percent, reducing throughput by 15 percent, and decreasing stock requirements per customer by an average of 12 percent. As part of a commercial laundry logistics system, Logi Tag RFID tags ensure accurate item counting and documentation, while enabling automatic billing and real-time inventory control.

In addition to asset management and inventory control benefits, medical facilities can use Logi Tag devices to improve infection control processes. By effectively tracking reusable

assets and verifying cleaning and sterilization procedures, health care facilities can better ensure patient and staff safety. Durable Logi Tag transponders perform exceptionally well, despite exposure to fluids, chemicals and sterilizing heat. On disposable assets, Logi Tag transponders enable faster, more accurate surgical counts.

Compliant with standard RFID readers and modules, 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 virtually indistinguishable from ordinary buttons, and can be sewn onto clothing with standard stitching equipment and processes.

Logi Tag discs endure severe conditions while protecting data integrity. Both read-only and read/write options are available, with a storage capacity up to 896 bits user memory.



SPECIFICATIONS

	LOGI TAG™								
	120				160	141	161		162 Button
Base Model Number	623115	624115	612115	601115	601106	685141	685108-400	629108-400	685110-400
ELECTRONIC									
Operating Frequency	125 kHz					13.56 MHz			
Chip Type	Hitag S	Hitag S	Q5	Unique	Unique	I-Code SLix-L	I-Code SLix-L	I-Code SLix	I-Code SLix-L
Memory	256 bit EEPROM	2048 bit EEPROM	264 bit EEPROM	64 bit read-only	64 bit read-only	512 bit EEPROM, 256 bit user memory		1024 bit EEPROM, 896 bit user memory	512 bit EEPROM, 256 bit user memory
Anti-Collision	Yes					Yes			
Reading Distance [4 W reader]						Up to 12.6 in (32 cm)	Up to 13.4 in (34 cm)		
PHYSICAL									
Dimensions	Ø 0.5 × 0.1 in (12.4 x 2 mm)				Ø 0.6 × 0.1 in (16 x 3 mm)	Ø 0.6 × 0.1 in (14 x 2.9 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								Sew on
Embeds In / Affixes To	Clothing and Textiles, non-metal Tools and Boxes								
Housing Material	PPS with epoxy potting				Epoxy		PPS		
Color	Black					White			
Weight	0.02 oz (0.6 g)				0.04 oz (1.1 g)	0.03oz(0.8g)	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								
Water Pressure	20 bars, 100 × 3 min								
Withstands Exposure To	Bleach (5%), caustic soda (pH 11), formic acid (pH7), gasoline, HCL (10%), oil, petroleum, salt water					Bleach (5%), HCL (10%), perchlorethylen (100%)			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 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h]								
Shock	IEC 68.2.29 [40 g, 18 ms, 6 axis, 2000 times]								
Drop Test	100 x 1.8 m								
Axial/Radial Force	800 N / 500 N, 10 sec				1000 N / 1000 N, 10 sec				
THERMAL									
Storage	-40° to +266° F (-40° to +130° C), 1 x 1000 h				-13° to 248° F (-25° to +120° C), 1 x 1000 h	-40° to 185° F (-40° to +85° C), 1 x 1000 h			
Operating	-13° to 185° F (-25° to +85° C)								
Shock/Fatigue	-4° to +320° F (-20° to +160° C), 100 x 5 min with 30 sec transition								
Peak	320° F (160° C), 35 h				320° F (160° C), 35 h; 428° F (220° C), 30 sec	248° F (120° C), 100 h; 428° F (220° C), 30 sec			
Spin dryer / tunnel finisher (set point)						347° F (175° C), 100 x 10 min			
OTHER									
Standards						ISO 15693, ISO 18000-3			
Options	Custom printed logo				Custom embossed logo, UID laser engraved				
Warranty	2 Years								

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2012-06-06-hid-family-logi-tag-ds-en