



LogiTag™



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

	Logi Tag™											
	120				160	121		141	161		162 Button	
Base Model Number	623115	624115	612115	601115	601106	6A9121-010	OM 6A9121-310	685141	685108-400	629108-400	685110-400	
ELECTRONIC												
Operating Frequency	125 kHz					13.56 MHz						
Chip Type	Hitag S		Q5	Unique		Vigo		I-Code SLIX-L				
Memory	256 bit EEPROM	2048 bit EEPROM	264 bit EEPROM	64 bit read-only		64 bit UID, 1024 bit EEPROM		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]	0.02 oz (0.6 g)			0.04 oz (1.1 g)		0.01 oz (0.3 g)		0.03 oz (0.8 g)		0.04 oz (1.0 g)		0.03 oz (0.85 g)
PHYSICAL												
Dimensions	Ø 0.5 × 0.1 in (12 × 2 mm)			Ø 0.6 × 0.1 in (16 × 3 mm)		Ø 0.5 × 0.1 in (12 × 2 mm)		Ø 0.6 × 0.1 in (14 × 2.9 mm)		Ø 0.6 × 0.1 in (16 × 3.0 mm)		Ø 0.6 × 0.1 in (16 × 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 with epoxy potting			PPS				
Color	Black						White					
Weight	0.02 oz (0.6 g)			0.04 oz (1.1g)		0.01oz(0.3g)		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	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						
Options	Custom printed logo				Custom printed logo			Custom embossed logo, UID laser engraving				
Box Size	2,500 pcs			2,000 pcs		2,500 pcs			2,000 pcs			
Warranty	2 Years											

North America: +1 949 732 2000
Toll Free: 1 800 237 7769
Europe, Middle East, Africa: +41 21 908 01 00
Asia Pacific: +852 3160 9800
Latin America: +52 55 5081 1650

hidglobal.com

ASSA ABLOY
An ASSA ABLOY Group brand



II 1G Ex ia IIC T4 Ga
I M1 Ex ia I Ma

© 2012-2014 HID Global Corporation/ASSA ABLOY AB. All rights reserved. HID, HID Global, the HID Blue Brick logo, the Chain Design and Logi Tag are trademarks or registered trademarks of HID Global or its licensor(s)/supplier(s) in the US and other countries and may not be used without permission. All other trademarks, service marks, and product or service names are trademarks or registered trademarks of their respective owners.
2014-02-14-hid-rfid-il-logi-tag-family-ds-en PLT-00280