

## INDUSTRY AND LOGISTICS



### 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

The HID Global Logi Tag<sup>®</sup> 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.



LOGI TAG™										
	120				160	141	161		162 Button	
<b>Base Model Number</b>	623115	624115	612115	601115	601106	685141	685108-400	629108-400	685110-400	
ELECTRONIC										
<b>Operating Frequency</b>	125 kHz					13.56 MHz				
<b>Chip Type</b>	Hitag S	Hitag S	Q5	Unique	Unique	I-Code SLix-L	I-Code SLix-L	I-Code SLix	I-Code SLix-L	
<b>Memory</b>	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	
<b>Anti-Collision</b>	Yes					Yes				
<b>Reading Distance [4 W reader]</b>						Up to 12.6 in (32 cm)		Up to 13.4 in (34 cm)		
PHYSICAL										
<b>Dimensions</b>	Ø 0.5 x 0.1 in (12.4 x 2 mm)				Ø 0.6 x 0.1 in (16 x 3 mm)	Ø 0.6 x 0.1 in (14 x 2.9 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								Sew on	
<b>Embeds In / Affixes To</b>	Clothing and Textiles , non-metal Tools and Boxes									
<b>Housing Material</b>	PPS with epoxy potting				Epoxy	PPS				
<b>Color</b>	Black					White				
<b>Weight</b>	0.02 oz (0.6 g)				0.04 oz (1.1 g)	0.03 oz (0.8 g)	0.04 oz (1.0 g)		0.03 oz (0.85 g)	
CHEMICAL AND MECHANICAL RESISTANCE										
<b>Water</b>	IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h									
<b>Water Pressure</b>	20 bars, 100 x 3 min									
<b>Withstands Exposure To</b>	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%)	
<b>Environmental Test Conditions</b>	68° F (20° C), 100 h									
<b>Vibration</b>	IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h]									
<b>Shock</b>	IEC 68.2.29 [40 g, 18 ms, 6 axis, 2000 times]									
<b>Drop Test</b>	100 x 1.8 m									
<b>Axial/Radial Force</b>	800 N / 500 N, 10 sec				1000 N / 1000 N, 10 sec					
THERMAL										
<b>Storage</b>	-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			
<b>Operating</b>	-13° to 185° F (-25° to +85° C)									
<b>Shock/Fatigue</b>	-4° to +320° F (-20° to +160° C), 100 x 5 min with 30 sec transition									
<b>Peak</b>	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			
<b>Spin dryer / tunnel finisher (set point)</b>	347° F (175° C), 100 x 10 min									
OTHER										
<b>Standards</b>	ISO 15693, ISO 18000-3									
<b>Options</b>	Custom printed logo				Custom embossed logo, UID laser engraved					
<b>Warranty</b>	2 Years									

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### ASSA ABLOY

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