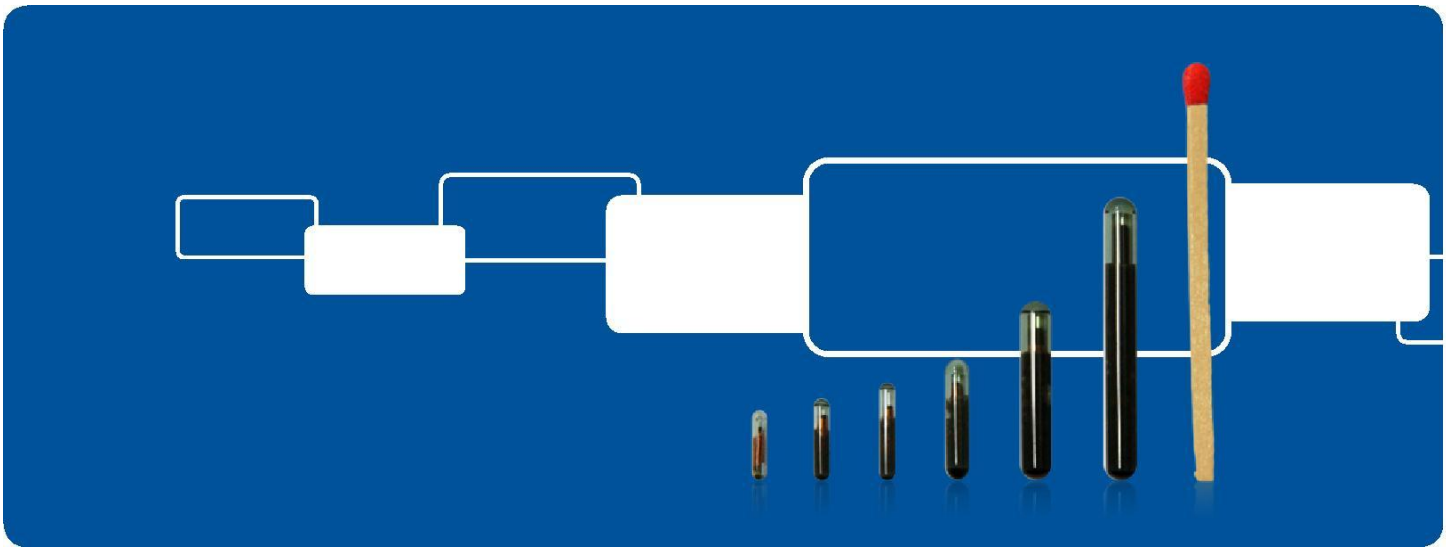
rfidcanada

INDUSTRY AND LOGISTICS

HID



VERSATILE LOW AND HIGH FREQUENCY ASSET TAGS WITH EXCEPTIONAL DURABILITY

Unsurpassed quality ï fully automated manufacturing and direct-bonding technology ensure tag reliability

Practically limitless options ï choose from a broad range of standard sizes and integrated chips, or customize to fit any application

Rugged reliability ï high resistance to chemicals, thermal fluctuation, and immersion into liquid, ATEX Certified

HID Glass Tag passive contactless transponders can be easily inserted or molded into a variety of materials, to enable automated asset identification and management applications using radio frequency identification (RFID).

Manufactured with patented HID direct-bonding technology, these tags deliver exceptional size to performance ratios, in both low frequency and high frequency applications.

HID uses fully automated processes to produce glass RFID tags, ensuring consistent quality and reliability. Additionally, automation allows HID to meet growing demand for value and innovation. Optimal performance and low unit cost ï just what youôd expect from the company that has distributed more than a billion RFID tags worldwide.

The glass enclosure ensures reliable transponder performance, despite potentially harsh conditions in finished tag production and field use.

The inherent properties of glass protect embedded electronics from exposure to harsh chemicals, ensure that tag readability is unaffected by immersion in liquids, and provide excellent stability over fluctuating temperatures.

Glass Tag devices can be embedded into custom housings and then be mounted on virtually any surface ï metal, plastic, wood, paper and water ï making them ideal for tracking any form of asset, including but not limited to: tools, equipment, pharmaceuticals, production inventory, metallic kegs or gas cylinders.

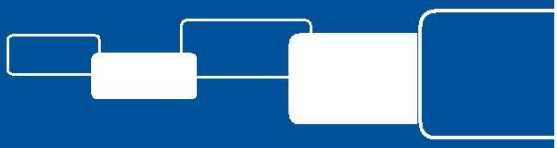
Among the latest HID innovations, Glass Tag Ultra transponders provide greater read-range performance than any low frequency tags of comparable size, and a generous 512 bits of read-write memory.

In addition, rod-shaped transponder units are also available without glass enclosures, for embedding in custom housings.

TECHNOLOGY HIGHLIGHTS:

- Available anti-collision in LF and HF
- Memory storage options: from 64 bit read-only to 2048 bit read-write
- Standard lengths from 0.31 in (8 mm) to 1.34 in (34 mm); custom sizes available
- Embeddable in a broad spectrum of potential enclosure materials
- Unlimited resistance to water and chemical absorption
- High stability over fluctuating temperatures

Glass Tag



SPECIFICATIONS

	Glass Tag							
	Mini	Hitag S						Nova
	8 mm	10 mm		12 mm		13 mm		13 mm
Base Model Number	6B3294	623205	624205	623201	624201	623203	624203	603200
ELECTRONIC								
Operating Frequency	125 kHz							
Chip Type	Hitag µ	Hitag S						Nova
Memory	128 bit EEPROM	256 bit EEPROM	2048 bit EEPROM	256 bit EEPROM	2048 bit EEPROM	256 bit EEPROM	2048 bit EEPROM	160 bit read-write
Anti-collision		Yes						
Reading Distance	Dependent upon reader, environment and application							
PHYSICAL								
Dimensions	Ø 0.05 x 0.31 in (Ø 1.4 x 8 mm)	Ø 0.08 x 0.39 in (Ø 2.12 x 10 mm)		Ø 0.08 x 0.47 in (Ø 2.12 x 12 mm)		Ø 0.12 x 0.51 in (Ø 3.15 x 13.3 mm)		
Tagging Method	External housing							
Housing Material	Bioglass							
CHEMICAL AND MECHANICAL								
Water	IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h							
Withstands Exposure To	Alcohol, ammonium chloride 25%, fuel B, HCL 10%, salt water							
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]							
THERMAL								
Storage	-40° to +194° F (-40° to +90° C), 1000 h							
Operating	-13 °to +185° F (-25° to +85° C)							
Peak	248° F (120° C), 100 h; '284° F (140° C), 10 h							
OTHER								
Standards	EN 60079-0:2009; EN 60079-11:2007; EN 60079-26:2007							
Options	Alternative sizes and chips (e.g. HDX , Hitag ε, EM4200/4102, ATA5577)							
Warranty	2 Years							

HID can create a custom tag solution to fit your application requirements for chip type, dimensions, programming and materials.

II 2G Ex ia IIA T5 Gb

INDUSTRY AND LOGISTICS:

- **Asset tracking and logistics**
  - Crate or carton fleet management
- **Automation and manufacturing**
  - Inventory tracking
  - Warranty validation
- **Medical and health**
  - Equipment calibration
  - Perishable asset allocation

SPECIFICATIONS

	Glass Tag										
	Q5		Titan	Unique			Ultra		FDX-b BDE		I-Code SLIx
	12 mm	13 mm	13 mm	12 mm	34 mm	13 mm	9 mm	12.5 mm	13 mm	22 mm	22 mm
Base Model Number	612201	612203	602203	601201	601206	601203	628230	684280	684244	684251	629209
ELECTRONIC											
Operating Frequency	125 kHz					131 kHz	134.2 kHz				13.8 MHz
Chip Type	Q5		Titan	Unique			Ultra		FDX-b BDE		I-Code SLIx
Memory	264 bit EEPROM		1024 bit EEPROM	64 bit read-only			512 bit EEPROM		128 bit read-only		1024 bit EEPROM (896 bit user)
Anti-collision											Yes
Reading Distance	Dependent upon reader, environment and application						Up to 35% more than standard tag of same size		Dependent upon reader, environment and application		
PHYSICAL											
Dimensions	Ø 0.08 x 0.47 in (Ø 2.12 x 12 mm)	Ø 0.12 x 0.51 in (Ø 3.15 x 13.3 mm)		Ø 0.08 x 0.47 in (Ø 2.12 x 12 mm)	Ø 0.16 x 1.34 in (Ø 4 x 34.5 mm)	Ø 0.12 x 0.51 in (Ø 3.15 x 13.3 mm)	Ø 0.08 x 0.35 in (Ø 2.12 x 9 mm)	Ø 0.08 x 0.49 in (Ø 2.12 x 12.5 mm)	Ø 0.12 x 0.51 in (Ø 3.15 x 13.3 mm)	Ø 0.15 x 0.85 in (Ø 4 x 21.7 mm)	
Tagging Method	External housing										
Housing Material	Bioglass										
CHEMICAL AND MECHANICAL											
Water	IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h										
Withstands Exposure To	Alcohol, ammonium chloride 25%, fuel B, HCL 10%, salt water										
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OTHER											
Standards	EN 60079-0:2009; EN 60079-11:2007; EN 60079-26:2007								EN14803		ISO 15693, ISO 18000-3
Options	Alternative sizes and chips (e.g. HDX , Hitag ε, EM4200/4102, ATA5577)										
Warranty	2 Years										

For more information, visit: www.rfidcanada.com
Email: info@rfidcanada.com
+1 905-513-8919