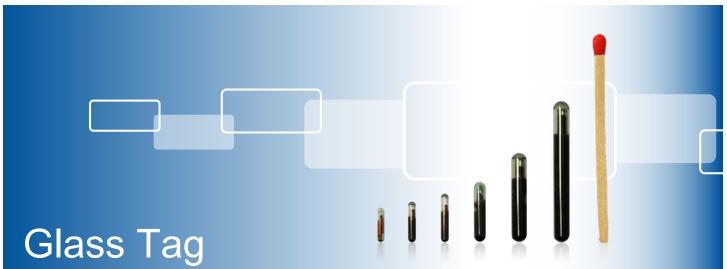
INDUSTRY AND LOGISTICS







TECHNOLOGY HIGHLIGHTS:

- C 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
 0.86 in (22 mm): custom sizes available
- C Embeddable in a broad spectrum of potential enclosure materials
- Unlimited resistance to water and chemical absorption
- C High stability over fluctuating temperatures

VERSATILE LOW AND HIGH FREQUENCY ASSET TAGS WITH EXCEPTIONAL DURABILITY

- C Unsurpassed quality fully automated manufacturing and direct-bonding technology ensure tag reliability
- Comprehensive portfolio choose from a broad range of standard sizes and integrated chips, or customize to fit any application
- C Rugged reliability high resistance to chemicals, thermal fluctuation, and immersion into liquid, ATEX Certified

HID Global's 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 Global 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.

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 mounted on virtually any surface, such as metal, plastic, wood, paper and water, making them ideal for tracking any form of asset, including but not limited to: tools, equipment, pharmaceuticals, production inventory, metallic kegs, gas cylinders or waste containers.

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.

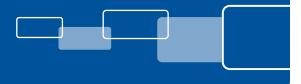
HF glass tags with patented direct bonding Vigo™ technology are fully ISO 15693 compliant, offering large 1.664 bit of user memory and excellent performance in a small form factor.

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

scemtec Transponder Technology GmbH, Wehrstr. 1, D-51645 Gummersbach Phone: +49 2261 80407 0, mail: info@stt-rfid.com



Glass Tag







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



II 1G Ex ia IIC T4 Ga IM1 Exia IMa

SF	PE	CI	FI	CA	0	IS

	Glass Tag										
	Mini	Mini Hitag S			Nova Titan		Q5				
	8 mm	12 mm		13 mm		13 mm	13 mm	12 mm	13 mm		
Base Model Number	684294	623201	624201	623203	624203	603200	602203	612201	612203		
ELECTRONIC						W					
Operating Frequency	125 kHz										
Chip Type	EM4305		Hita	ig S		Nova	Nova Titan		Q5		
Memory	512 bit EEPROM	256 bit EEPROM	2048 bit EEPROM	256 bit EEPROM	2048 bit EEPROM	160 bit EEPROM	1024 bit EEPROM	264 bit EEPROM	64 bit read-only		
Anti-collision		Yes		es							
Reading Distance	Dependent upon reader, environment and application										
PHYSICAL	1			-							
Dimensions	Ø 0.05 x 0.31 in (Ø 1.4 x 8 mm)		x 0.47 in 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 0.12 x 0.51 (Ø 3.15 x 13. 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			IE	EC 68.2.29 [4	40 g, 18 ms,	6 axis, 2000	times]				
THERMAL	1										
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	1										
Standards	EN 60079-0:2009; EN 60079-11:2007; EN 60079-26:2007 (all glass tags)										
Options	Alternative sizes and chips (e.g. EM4200/4102, EM4305, custom programming)										
Box Size	5.000 pcs. for GT Mini 2.000 pcs. for all GT 12mm and 12.5, 22 and 22.5 mm 3.000 pcs. for all GT 9mm 300 pcs. for GT ICode SLIx 629209										
Warranty	2 Years										

INDUSTRY AND LOGISTICS:

- Asset tracking and logistics
 - Crate or carton fleet management
 - Waste management

Automation and manufacturing

- Inventory tracking
- Warranty validation

Medical and health

- Equipment calibrationPerishable asset allocation

SPECIFICATIONS

	Glass Tag										
	Unique			Ultra		FDX-b BDE		HDX BDE	Vigo		I-Code SLIx
	12 mm	22 mm	13 mm	9 mm	12.5 mm	13 mm	22 mm	22.5 mm	12 mm	13 mm	22 mm
Base Model Number	601201-002	601209	601203	628230	684280	684244	684251	6B7252-001	6B0201	6B0203	629209
ELECTRONIC											
Operating Frequency	127 kHz	125 kHz	131 kHz			134.2 kHz			13.56 MHz		
Chip Type	Unique			EM4305		FDX-b BDE		HDX BDE	Vigo		ICODE SLIX
Memory	64 bit read-only			512 bit EEPROM		128 bit read-only			1664 bit EEPROM		1024 bit EEPROM (896 bit user)
Anti-collision							Yes				
Reading Distance	Dependent upon reader, environment and application			Up to 35% more than Dependent standard tag of same size			t upon reader, environment and application				
PHYSICAL											
Dimensions	Ø 0.08 x 0.47 in (Ø 2.12 x 12 mm)	Ø 0.15 x 0.85 in (Ø 4 x 21.7 mm)	Ø 0.12 x 0.51 ii (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 ir (Ø 3.15 x 13.3 mm)	Ø 0.15 x 0.85 ii (Ø 4 x 21.7 mm	Ø 0.15 x 0.88 ir Ø 3.85 x 22.5 mm)	Ø 0.08 x 0.47 in (Ø 2.1 x 12.0 mm)	Ø 0.12 x 0.51) in (Ø 3.15 x 13.3 mm)	Ø 0.15 x 0.85 ir (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%, saltwater										
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)										
Operating Peak	-40° to +194° F (-40° to +90° C) -13 °to +185° F (-25° to +85° C) 248° F (120° C), 100 h; 284° F (140° C), 10 h										
OTHER					240 1 (120 C)	F (140 OJ, 1011				
Standards						EN14803 ISO 15693, ISO 18000-3					
Options											
Box Size	5,000 pcs for GT Mini 2,000 pcs for all 12 mm, 12.5 mm and 22.5 mm tags 1,000 pcs for GT I code SLIx 629209										
Warranty	2 years										



INDUSTRY AND LOGISTICS

