INDUSTRY AND LOGISTICS

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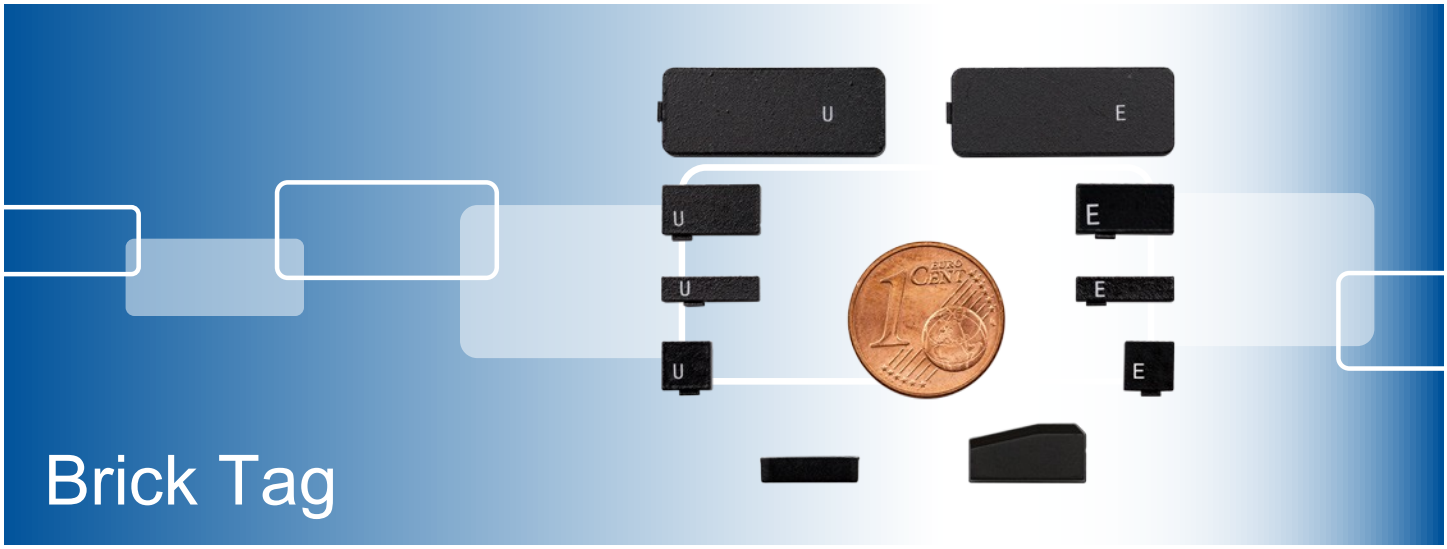
scemtec Transponder Technology GmbH



Brick Tag

TECHNOLOGY HIGHLIGHTS:

- Resistant to chemicals, shock and vibration
- Tiny footprints
- Heat resistant
- Waterproof
- LF, HF/NFC, UHF/RAIN options

MINIATURE TAGS MOUNT OR EMBED DISCREETLY TO TOOLS, EQUIPMENT, MEDICAL INSTRUMENTS AND MORE

- **Small footprints** – Embeddable in space-restricted applications.
- **Exceptional durability** – Withstand physical stress, are dust tight, and resistant to water, chemicals, acids and temperature extremes.
- **Versatility** – Available in LF, HF and UHF; may be customized to fit application requirements.

HID Global Brick Tag passive contactless transponders easily integrate into RFID applications requiring discreet placement of small, featherweight tags that deliver sustainable performance.

Brick Tag Ceramic units are optimized for placement on metal assets, such as tools, weaponry and surgical instrumentation. The hard shells encasing these tiny UHF transponders shield them from exposure to autoclave sterilization and demanding industrial environments. Their 512-bit memory is readable and writable from up to 3.3 ft (1 m).

The Brick Tag ABS Vigo™ transponder is among the smallest HF tags available. These units are assembled using patented DBond™ Vigo™ technology that enables HID Global to produce tags in thinner, smaller formats without compromising performance. The tags provide a full 64-bit UID and 1024-bit user memory, optionally usable for NFC applications.

The epoxy Brick Tag Nova and Brick Tag HDX low frequency transponders are only 0.12 in (3.0 mm) thick. The Nova tag's 160-bit read-write memory is easily programmed to suit custom applications. The HDX version is read-only, and meets ISO 11784 and ISO 11785 standards. Both withstand extreme temperatures, and provide high water, chemical and shock resistance. Widely used in key fobs for automobile immobilizer theft prevention systems, these devices are also ideal for tool or cable inventory and tracking systems.

APPLICATION AREAS:

- **Asset tracking and logistics**
  - Cable identification
  - Tool or weapon inventory and management
  - Key fobs for automobile immobilization systems
- **Medical and health**
  - Surgical instrumentation tracking
  - Medical equipment status and utilization

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SPECIFICATIONS

	Brick Tag						
	Epoxy		ABS	Ceramic			
	Nova	HDX	Vigo	60	75	150	600
Base Model Number	933504	9B7513	6A9904	698936 (EU) 698937 (US)	698930 (EU) 698931 (US)	698932 (EU) 698933 (US)	698934 (EU) 698935 (US)
ELECTRONIC							
Operating Frequency	130 kHz	134.2 kHz	13.56 MHz	869 MHz (EU) / 915 MHz (US)			
Chip Type	Nova	HDX	Vigo	Higgs 3			
Memory	160 bit EEPROM	128 bit read-only	64 bit UID, 1024 bit EEPROM	512 bit read/write			
Anti-Collision			Yes				
Reading Distance	Proximity			3.3 ft (1.0 m)			
PHYSICAL							
Dimensions	0.5 × 0.2 × 0.1 in (12 × 6 × 3 mm)		0.4 × 0.1 × 0.1 in (10 × 3 × 2.5 mm)	0.4 × 0.1 × 0.1 in (10 × 2.5 × 2.5 mm)	0.2 × 0.2 × 0.1 in (5 × 5 × 3 mm)	0.4 × 0.2 × 0.1 in (10 × 5 × 3 mm)	0.9 × 0.4 × 0.1 in (23 × 9 × 3 mm)
Mounting Method	Enclose			Adhesive or enclosure			
Affixes to	Any material			Metal surfaces			
Housing Material	Epoxy overmolded		ABS coffin potted w/ epoxy	Ceramic painted			
Color	Black			Black			
Weight	0.02 oz (0.45 g)		0.005 oz (0.15 g)	0.01 oz (0.4 g)		0.03 oz (0.9 g)	0.11 oz (3.2 g)
CHEMICAL AND MECHANICAL RESISTANCE							
Water	IP68, 68° F (20° C), 1 m × 24 h			IP67, 1 m × 1 h			
Withstands Exposure To	Bleach, caustic soda, formic acid, gasoline, HCL, oil, salt water			Autoclave sterilization; bleach, cleaning soutions, oil			
Environmental Test Conditions	68° F (20° C), 100 h						
Axial / Radial Force	500 N, 10 sec						
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 × 1 m						
Pressure	100 bar, 5 min						
THERMAL							
Storage	-40° to +248° F (-40° to +120° C), 1 × 1000 h		-13° to +158° F (-25° to +70° C), 1 × 1000 h	-40° to +185° F (-40° to +85° C)			
Operating	-40° to +194° F (-40° to +90° C)		-13° to +158° F (-25° to +70° C)	-40° to +185° F (-40° to +85° C)			
Shock/Fatigue	-40° to +194° F (-40° to +90° C), 200 × 20 min with 30 sec transition		-13° to +158° F (-25° to +70° C), 200 × 5 min with 30 sec transition	-40° to +185° F (-40° to +85° C)			
Peak Temperature	284° F (140° C), 100 h			302° F (150° C), 100 h			
OTHER							
Standards		ISO 11784, 11785	ISO 15693, 18000-3, NFC Tag Type 5 when NDEF formatted	EPC C1G2, ISO 18000-6C, RAIN			
Options	Alternative LF or HF integrated chips			Self-adhesive sticker			
Quantity Per Box	500 pcs.		4,000 pcs.	4,000 pcs	10,000 pcs	4,000 pcs	2,000 pcs
Warranty	2 years						