

Asset Tracking & Logistics



Product Name	Brick Tag Ceramic	InLine Ultra (Weld)	InLine Ultra Slim (Weld)	SlimFlex Tag Standard		Seal Tag		World Tag		Epoxy Tag		
Application	Miniature UHF tags for tracking small metal assets	Robust high performance, general purpose UHF transponder for metal and non metal outdoor use		Flexible, ruggedized tag for industrial / outdoor environments		SlimFlex tag with built-in tamper evident, easy to fix cable tie		Best general use price/performance ratio for indoor asset identification		Printable, engravable tag with high mechanical and thermal stability		
Frequency	865 MHz (EU) / 915 MHz (US)	860 - 960 MHz (Worldwide)		13.56 Mhz	860-960 MHz (Worldwide)	13.56 Mhz	860-960 MHz (Worldwide)	125 kHz		125 kHz	13.56 Mhz	860-960 MHz (Worldwide)
Size	5x5x3, 10x5x3, 23x9x3 mm	97x27x15 mm (Ultra) 105x35x15 mm (Ultra weld)	97x27x9 mm (Ultra) 105x35x9 mm (Ultra weld)	83x25x3 mm / 83x25x6 mm (on metal)	77x25x3 mm (screw) 83x25x3 mm (slot) 87x25x3 mm (cable tie) 65x12x2 mm (mini)	85x25x3 mm	85x25x3 mm, 60x12x2 mm (mini)	Ø20 or 30x2.1 mm	Ø50x2.1 mm	45x30x1.6 mm or Ø20 or 30x1 mm discs		83x25x1 mm
Screw Hole		Ø5.2 mm or optional steel ring to weld		2x6 mm (slot)	Ø3 mm (screw) 2x6 mm (slot, mini) Ø7 mm (cable tie)	Cable Tie: 380x6.4x2.15 mm, black	Cable Tie: 380x6.4x2.15 mm, 190x2.5x1.15 mm (mini), black	None or Ø3.2 mm	Ø4.2 mm	Ø5 mm		3 mm
Standards / Protocol Support	ISO 18000-6C, EPC C1G2,	ISO 18000-6C, EPC C1G2, ISO 17364, DIN 40050-9		ISO 15693, ISO 18000-3	EPC C1G2, ISO 18000-6C	ISO 15693, ISO 18000-3	EPC C1G2, ISO 18000-6C	N/A		N/A	ISO 14443A - NFC Tag Type 4	EPC C1G2, ISO 18000-6C
Chip Type	Higgs 3	Monza 4QT		I-code SL1x	Higgs 3	I-code SL1x	Higgs 3	Hitag S, Q5, Titan, Unique		Hitag S, Unique	Trusted Tag	Higgs 3
Memory¹	64 bit TID, 96 bit EPC, 512 bit RW	96 bit TID, 128 bit EPC, 512 bit RW		1024 bit RW	64 bit TID, 96 bit EPC, 512 bit RW	1024 bit RW	64 bit TID, 96 bit EPC, 512 bit RW	64 bit RO, 256 bit RW, 264 bit RW, 1024 bit RW, 2048 bit RW		64 bit RO, 256 bit RW	8 KB	64 bit TID, 96 bit EPC, 512 bit RW
Anti-collision	Yes	Yes		Yes			Hitag S - Yes		Hitag S - Yes	Yes		
Reading Distance²	up to 26.2 ft (8 m)	up to 26.2 ft (8 m)	up to 16.4 ft (5 m)		up to 26 ft (8 m), 16 ft (5 m) for mini		up to 26 ft (8 m), 16 ft (5 m) for mini	N/A		N/A		up to 26.3 ft (8 m)
Typical Use Environment	Metal	Metal, Plastic, Wood, Glass		Plastic, dry wood, (HF on-metal version available)		Industrial bags, containers		Plastic, glass		Asset tracking or access control & time attendance		Asset Tracking
Mounting Method	Glue	Screw-on or Weld		Glue or screw-on		Integrated cable tie		Glue or screw-on	Screw-on	Screw-on, keyring, chain		screw-on, glue or encapsulate
Operating Temperature³	-40°C to +85°C	-40°C to +85°C		-40°C to +70°C			-25 °C to +70 °C		-25 °C to +85 °C		-40°C to +85°C	
Storage Temperature³	-40°C to +85°C	-40°C to +85°C		-40°C to +70°C			-40 °C to +90 °C		-40 °C to +95 °C		-40°C to +85°C	
Peak Temperature³	150°C	Shock -40° to +85°		Shock -40°C to +70°C			+130 °C (100h)	+100 °C (100h)	+140 °C (1x24h)		+160 °C (1x10h)	
Housing Material	Ceramic	PC-ABS		TPE		TPE / Nylon 6.6		PC		Epoxy		
Chemical and Environmental Resistances³	Water, IP67 (1m, 1h), Salt mist, Petroleum, Mineral and vegetable oils	Water, IP69K (100 bar at 80°C, 30 sek., 16 l/min), salt mist, petroleum, oils, humidity 70%/80%		Water, IP68 (2m, 24h), Salt mist, Petroleum, Mineral and vegetable oils, UV resistant				N/A		Water, IP69K (100 bar at 80°C, 30 sek., 16 l/min), Salt Mist, Petroleum, Oils		
Mechanical Resistances³	Vibration IEC 68.2.6, Shock IEC 68.2.29	Vibration IEC 68.2.6, shock IEC 68.2.29, impact IEC 62262-IK09		Vibration IEC 68.2.6, Shock IEC 68.2.29, Impact IEC 62262-IK06		Vibration IEC 68.2.6, Shock IEC 68.2.29, Impact IEC 62262-IK06, Cable tie pull resistance >600N		Vibration IEC 68.2.6, Shock IEC 68.2.29, 100 drops 1.8 m				
Axial / Radial Force³		1000N		1000N			500N / 300N (10 sec)	500N / 100N (10 sec)	N/A		1000N (10 sec)	
Warranty⁴	2 Years	7 years		2 years			2 years		2 years		2 years	

¹ Unique (64 bit RO), Q5 (264 bit RW), Hitag S (32 bit RO, 256 bit RW, 2048 bit RW), EM4305 (512 bit RW), I-Code SL1x-L (512 bit EEPROM, incl. 256 bit user memory), I-Code SL1x (1024 bit EEPROM, incl. 896 bit user memory), I-Code SL1x-S (2048 bit EEPROM, incl. 1280 bit user memory), Titan (1024 bit RW)
² Read range is strongly dependent upon multiple parameters including reader, environment and application. HID Global tags are tested and proven to be at the top of their class.

³ For further specification details, please see datasheets of the respective products.
⁴ Warranty: Storage condition must not exceed specification for temperature, chemical, mechanical, electrical condition, storage from -25°C to +50°C, humidity 20% to 80%

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