

PRODUCT COMPARISON CHART

Waste Management



Product Name	Bin Tag	Bin Tag HDX	Bin Tag HF	Bin Tag UHF	Plug Tag	InLine Ultra (Weld)	InLine Ultra Slim (Weld)	InLine Ultra Mini	IN Tag 200/300/500			
Application	For integration into waste management collection bins during or after molding				Easy-mounting, non-removable tag for tracking containers for hazardous, recycling, medical and sensitive waste	Robust high performance, general purpose UHF transponder for metal and non metal outdoor use			Ruggedized for severe industrial environments, food compatible			
Frequency	125 kHz	134.2 kHz		13.56 MHz	860-960 MHz (Worldwide)	131 kHz			134.2 kHz			
Size	Ø30x15 mm				Ø9x19mm (Cap Ø15x19 mm)		97x27x15 mm (Ultra) 105x35x15 mm (Ultra weld)	97x27x9 mm (Ultra) 105x35x9 mm (Ultra weld)	24x0.7x0.3 (60x18x8mm)	Ø20 or 30x2.5 mm, Ø50x3 mm		
Screw hole	N/A		Ø5.5 mm	N/A	N/A		Ø5.2 mm or optional steel ring to weld		Ø4.5 mm	None (IN Tag 200) or Ø5.2mm		
Standards / Protocol Support	DIN30745	EN 14803, DIN 30745		ISO 15693, ISO 18000-3	EPC C1G2, ISO 18000-6C, DIN30745	N/A	EN 14803	ISO 18000-6C, EPC C1G2, ISO 17364, DIN 40050-9		N/A	ISO 15693, ISO 18000-3	
Chip Type	Unique	FDX-b BDE	HDX BDE	ICODE SLIX	Higgs 3	Unique	FDX-b BDE	Monza 4QT		Monza R6	HITAG S, Unique	ICODE SLIX
Memory ²	64 bit RO	128 bit RO	128 bit RO	1024 bit RW	96 bit EPC, 64 bit TID, 512 bit RW	64 bit RO	128 bit RO	96 bit TID, 128 bit EPC, 512 bit RW		96 bit EPC, 48 bit TID	64 bit RO, 256 bit RW, 2048 bit RW	1024 bit RW
Anti-collision	N/A		N/A	Yes	N/A		Yes			HITAG S - Yes	Yes	
Reading Distance ¹	N/A		N/A	N/A	Up to 6.5ft / 2m	N/A		Up to 26.2 ft (8 m)	Up to 16.4 ft (5 m)	up to 9.8 ft (3 m)	N/A	
Typical Use Environment	Plastic				Plastic	Metal, plastic, wood, glass			Plastic, wood, glass			
Mounting Method	Screw-in			N/A	Plug-in	Screw-on or weld			Embed, glue or screw-on			
Operating Temperature ¹	-40 °C to +85 °C		-25 °C to +70 °C	-25°C to +85°C	-40 °C to +70 °C	-20 °C to +85 °C		-40°C to +85°C		-25°C to +85°C	-40°C to +85°C	
Storage Temperature ¹	-40 °C to +90 °C		-40 °C to +85 °C	-40°C to +90°C	-40 °C to +70 °C	-20 °C to +85 °C		-40°C to +85°C		-40°C to +85°C		
Peak Temperature ¹	N/A		N/A	N/A	N/A	N/A		Shock -40° to +85°		+140 °C (100h)		
Housing Material	Housing PA6, potting - PUR				PA6	PC-ABS			PPA			
Chemical and Environmental Resistances ¹	Water, IP67 (1m, 1 h), salt mist, fuel B, petroleum, mineral and vegetable oils				Water, IP 68 (1m, 24 h)	Water, IP69K (100 bar at 80°C, 30 sek., 16 l/min), salt mist, petroleum, oils, humidity 70%/80%			Water, IP69K (100 bar at 80°C, 30 sek., 16 l/min), Salt mist, Fuel B, petroleum, mineral and vegetable oils, food compatible, flame resistant UL94 HB			
Mechanical Resistances ¹	Vibration IEC 68.2.6, shock IEC 68.2.29, compression 1000N				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-IK07		Vibration IEC 68.2.6, shock IEC 68.2.29		
Axial / Radial Force ¹	1000N (10 sec)				N/A	1000N			800N / 500N (10 sec)			
Warranty ³	7 years				7 years	7 years			7 years			

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¹ For further specification details, please see datasheets of the respective products. 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.

² Unique (64 bit RO), Q5 (264 bit RW), HITAG S (32 bit RO, 256 bit RW, 2048 bit RW), ICODE SLIX (1024 bit EEPROM, incl. 896 bit user memory)

³ Warranty: Storage condition must not exceed specification for temperature, chemical, mechanical, electrical condition, storage from -25°C to +50°C, humidity 20% to 80%

PRODUCT COMPARISON CHART

Animal Identification

animal identification



Product Name	Glass Tag Ultra	Glass Tags							E-Unit Rod	E-Unit Disc	E-Unit Packaged		
Application	Glass tube with up to 35% better read range than standard tube of same size	Small size with high chemical resistance provides an ideal solution for injection and long term immersion							Embeddable RFID tags - ideal as customizable implants. Please contact HID sales for details.				
Size	Ø2x9 mm ³ , Ø2x12.5 mm ³	1.4x8 mm ³	1.4x10 mm ³	Ø2x12 mm ³	Ø2x12 mm	Ø3x15 mm	Ø3.85x22.5 mm, Ø3.85x32 mm	Ø4x22 mm	Ø4x34 mm	Ø1x7, 1.8x15 mm	Ø 20, 24 mm or custom	Ø 17.4 or 29 mm	
Frequency	134.2 kHz			125 kHz		134.2 kHz			134.2 kHz				
Standards / Protocol Support	ISO 11784, ISO 11785			N/A		ISO 11784, ISO 11785			ISO 11784, ISO 11785				
Chip Type	EM4305		HITAG S, EM4305		Unique	HITAG S	HDX	HITAG S, EM4305		EM4305, HITAG S	EM 4305, HDX		
Memory ¹	512 bit RW		256 bit RW, 512 bit RW, 2048 bit RW		64 bit RO	256 bit RW	128 bit OTP	256 bit RW, 512 bit RW		512 bit RW	512 bit RW, 128 bit OTP		
Tagging Method	Subcutaneous			External housing e.g. pigeon ring		Subcutaneous, primarily horses		External housing		External housing e.g. ceramic bolus (stomach)		Ear tag or customized implant	ear tag or custom application
Operating Temperature ²					-25 °C to +85 °C				-25 °C to + 60 °C				
Storage Temperature ²					-40 °C to +90 °C				-40 °C to + 60 °C				
Peak Temperature ²					+120 °C (100h) +140 °C (10h)		+120 °C (100h)		+120 °C (100h) +140 °C (10h)				
Housing Material	BIO Glass												
Chemical and Environmental Resistances ²	Water, IP68 (1m, 24h), saltwater, alcohol, HCL, fuel, ammonia												
Mechanical Resistances ²	Vibration IEC 68.2.6, shock IEC 68.2.29												
Parylene Coating Available (better tissue adhesion)	Yes		No		Yes		No						
Warranty ⁴	2 years												

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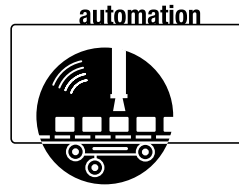
2017-04-23-hid-td-tag-products-ct-en PLT-00649

¹ For further specification details, please see datasheets of the respective products.
² HITAG S (256 bit RW), EM4305 (512 bit RW)
³ Optionally available with on-demand custom programming, see <http://www.hidglobal.com/main/services/on-demand/pet-programming/>

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%
 For unpackaged tags: Warranty would depend on finished product and can only be given as long as raw product is not processed / packaged

PRODUCT COMPARISON CHART

Automation & Manufacturing



Product Name	IN Tag 200/300/500 (OM)			Logi Tag 121 OM		Poly Tag 340			Volcano Tag 231		Iron Tag 176	Iron Tag 206	High-Temp. Label			
Application	Ruggedized for severe industrial environments, food compatible			Micro-sized and thin, high performance HF disc tag with on-metal option		Durable tag for outdoor use requiring extreme impact resistance			Tag to withstand high temperatures		On-metal, High Temperature UHF Tag		High-temperature UHF label for manufacturing processes			
Frequency	125 kHz	13.56 MHz		865 MHz (EU) / 915 MHz (US)		13.56 MHz		125 kHz		13.56 MHz		125 kHz	865 MHz (EU) / 915 MHz (US)	860-960 MHz (Worldwide)		
Size	Ø20 or 30x2.5 mm, Ø50x3 mm		Ø20x or 30x 2.8 mm Ø50x3.3 mm	Ø50x or 55x3 mm		Ø12.4x2.15 mm			Ø34x8 mm			Ø26x4 mm	53x23x7 mm	34x31x6 mm	80x50x0.5 mm	
Screw Hole	None (IN Tag 200) or Ø5.2mm			N/A		Ø5.4 mm			Ø4.5 mm		N/A	Ø3.3 mm	Ø5 mm			
Standards / Protocol Support ¹	ISO 15693, ISO 18000-3		ISO 15693	EPC C1G2, ISO 18000-6C, ATEX		ISO 15693, ISO 18000-3, ATEX		ISO 15693, ISO 18000-3			N/A		EPC C1G2, ISO 18000-6C, DIN 40050-9, ISO 4892-2	EPC C1G2, ISO 18000-6C		
Chip Type	HITAG S, Unique	ICODE SLIX	F-Mem	G2IM		Vigo			Unique	HITAG S	ICODE SLIX	Unique, Q5	Higgs 3	Monza X	Monza 4QT	
Memory ³	64 bit RO, 256 bit RW, 2048 bit RW	1024 bit RW	2 KByte RW, 8 KByte RW (IN Tag 300 only)		640 bit EEPROM (96 bit TID, 256 bit EPC)		1024 or 2048 bit RW			64 bit RO	256 bit RW, 2048 bit RW	1024 bit RW	64 bit RO, 264 bit RW	64 bit TID, 96 bit EPC, 512 bit RW	96 bit TID, 128 bit EPC, 2176 or 8192 bit RW	96 bit TID, 128 bit EPC, 512 bit RW
Anti-collision	HITAG S - Yes	Yes			Yes		Yes			No		Yes		Yes		
Reading Distance ¹	up to 9.8 ft (3 m)			N/A		N/A			N/A		Up to 13.1 ft (4 m)	up to 8.2 ft (2.5 m)	up to 26.3 ft (8 m)			
Typical Use Environment	Plastic, wood, glass			Metal, Plastic, Wood, Glass		Metal, Plastic		Plastic, wood, glass, metal			Any to withstand equal temperatures		Metal	manufacturing		
Mounting Method	Embed, glue or screw-on			Embed, glue		Screw-on			Screw-on		Glue or sticker	Screw, clamp, glue or sticker	screw, rivet			
Operating Temperature ¹	-25°C to +85°C	-40°C to +85°C		-20°C to +85°C		-40°C to +85°C		-40 °C to +85 °C	-25 °C to +85°C	-40°C to +85°C	-25 °C to +85 °C		-40°C to +85°C	-40°C to +85°C		
Storage Temperature ¹	-40 °C to +90 °C			-40°C to +90°C		-40 °C to +90 °C	-40 °C to +90°C			-25 °C to +140 °C		-40°C to +90°C	-40°C to +85°C			
Peak Temperature ¹	+140 °C (100h)			+90 °C (100h)		+100 °C (100h)	+130 °C (100h)			+160 °C (100h) +200 °C (10min)	+180°C (400h)	+180° C (600h), +200° C (24h), +220° C (10h)	+140°C (400h), +180°C (100h), +230°C (20h)			
Housing Material	PPA			PPS		PA6			PPA		PPA		Aramid Polymer			
Chemical and Environmental Resistances ¹	Water, IP69K (100 bar at 80°C, 30 sek., 16 l/min), salt mist, fuel B, petroleum, mineral and vegetable oils, food compatible, flame resistant UL94 HB			Water, IP68 (1m, 24h), Salt mist, Fuel B, Petroleum, Mineral and vegetable oils, Food compatible		Water, IP67 (1m, 1h), water with salt, unleaded gasoline, petroleum, mineral and vegetable oils, humidity 90% HR @ 90 °C			Water, IP68 (1m, 24h)		Water, IP69K (100 bar at 80°C, 30 sek., 16 l/min), salt mist, fuel B, mineral and vegetable oils, petroleum, food compatible, flame (UL94HB) and UV resistant	Water, IP67 (1m, 1h), Salt mist, Fuel B, Mineral and vegetable oils, Petroleum, Flame (UL94V0) and UV resistant	Water, IP68 (1m, 24h), Salt mist, Fuel B, Petroleum, Mineral and vegetable oils, Flame resistant UL 94V-0			
Mechanical Resistances ¹	Vibration IEC 68.2.6, shock IEC 68.2.29			Vibration IEC 68.2.6, Shock IEC 68.2.29		Vibration IEC 68.2.6, shock IEC 68.2.29			Vibration IEC 68.2.6, shock IEC 68.2.29		Vibration IEC 68.2.6, Shock IEC 68.2.29, Impact IEC 62262-IK07	Vibration IEC 68.2.6, Shock IEC 68.2.29, Impact IEC 62262-IK07	Vibration IEC 68.2.6, Shock IEC 68.2.29, Bending: 100x 300mm radius, 10x 100 mm radius - lengthwise			
Axial / Radial Force ¹	800N / 500N (10 sec)			800N / 500N (10 sec)		800N / 500N (10 sec)			N/A		800N / 500N (10 sec)		50N			
Warranty ⁴	2 years			2 years		2 years			2 years		2 years		2 years			

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¹ For further specification details, please see datasheets of the respective products. 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.

² ISO 11784, ISO 11785 for HITAG S and EM4305 chip only

³ Unique (64 bit RO), Q5 (264 bit RW), HITAG S (32 bit RO, 256 bit RW, 2048 bit RW), Titan (1024 bit RW), EM4305 (512 bit RW) ICODE SLIX-L (512 bit EEPROM, incl. 256 bit user memory), ICODE SLIX (1024 bit EEPROM, incl. 896 bit user memory), ICODE SLIX-S (2048 bit EEPROM, incl. 1280 bit user memory), Vigo (1024 bit RW)

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%

PRODUCT COMPARISON CHART

Returnable Transport Items



Product Name	SlimFlex Tag	InLine Tag Plate	Keg Tag UHF	InLine Ultra Curve	Nail Tag	IN Tag 200/300/500 (OM)		
Application	Flexible, robust UHF tags. May be laser engraved with human readable information or barcode	Thin, rigid UHF tag for container tagging with room for inscriptions via Laser engraving or labels	Robust high performance transponder for curved metallic returnable transport items like beer kegs, gas cylinders etc.		Glass-fiber nail tag for easy insertion into wood for use in pallet identification	Ruggedized for severe industrial environments, food compatible		
Frequency	860-960 MHz (Worldwide)	865 MHz (EU) / 915 MHz (US) on-metal, broadband off-metal	865 MHz (EU) 915 MHz (US)	860-960 MHz (Worldwide)	125 kHz	125 kHz	13.56 MHz	865 MHz (EU) / 915 MHz (US)
Size	83x25x3 mm and other sizes	120x68x3.7 mm	33x40x8.7 mm	88x37x14.5 mm (including metal ring)	Ø4x35.5 mm	Ø20 or 30x2.5 mm, Ø50x3 mm		Ø50x or 55x3 mm
Screw hole	various dimensions	Ø4.2 mm	Curve radius: 75 mm	Curve radius: 450 mm	N/A	None (IN Tag 200) or Ø5.2mm		
Standards / Protocol Support	ISO 18000-6C, EPC C1G2, ISO 17364		ISO 18000-6C, EPC C1G2, ISO 17364, DIN 40050-9				ISO 15693, ISO 18000-3, ISO 17364	EPC C1G2, ISO 18000-6C, ATEX
Chip type	Higgs 3	Monza 3 (EU), Monza 4E (US)	Monza 4E	Monza 4QT	Unique	HITAG S, Unique	ICODE SLIX	G2IM
Memory³	64 bit TID, 96 bit EPC, 512 bit RW	64 bit TID, 96 bit EPC or 96 bit TID, 496 bit EPC, 128 bit RW	96 bit TID, 496 bit EPC, 128 bit RW	96 bit TID, 128 bit EPC, 512 bit RW	64 bit RO	64 bit RO, 256 bit RW, 2048 bit RW	1024 bit RW	640 bit EEPROM (96 bit TID, 256 bit EPC)
Anti-collision	Yes		Yes		N/A	HITAG S - Yes	Yes	
Reading distance²	Up to 26.2 ft (8 m)	Up to 19.7 ft (6 m) on-metal, up to 24.6 ft (7.5 m) off-metal	up to 19,6 ft (6 m)	up to 26.2 ft (8 m)	N/A			up to 9.8 ft (3 m)
Typical use environment	Plastic, Wood	Container tagging	Metal Kegs, Drums, Gas Cylinders etc.		Wood	Plastic, wood, glass		Metal, Plastic, Wood, Glass
Mounting method	Glue or Screw-on	screw	Glue	Weld on metal, glue	Nail	Embed, glue or screw-on		
Operating Temperature¹	-40°C to +70°C	-40°C to +85°C	-40°C to +80°C		-25 °C to +85 °C	-25°C to +85°C	-40°C to +85°C	-20°C to +85°C
Storage Temperature¹	-40°C to +70°C	-40°C to +85°C	-40°C to +80°C		-25 °C to +85 °C	-40 °C to +90 °C		
Peak Temperature¹	Shock -40 to +70°	Shock -40° to +85°	Shock -40° to +85°		N/A	+140 °C (100h)		
Housing Material	TPE	ABS/PC	PC-ABS		PPA	PPA		
Chemical and Environmental Resistances¹	Water, IP68 (1m, 24h), salt mist, petroleum, mineral and vegetable oils, UV resistant	Water, IP69K (100 bar at 80°C, 30 sek., 16 l/min), Salt Mist, Petroleum, Oils,	Water, IP69K (100 bar at 80°C, 30 sek., 16 l/min), Salt Mist, Petroleum, Oils, Humidity 70%/80%		Water, IP67 (1m, 1h)	Water, IP69K (100 bar at 80°C, 30 sek., 16 l/min), salt mist, fuel B, petroleum, mineral and vegetable oils, food compatible, flame resistant UL94 HB		
Mechanical Resistances¹	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-IK08		N/A	Vibration IEC 68.2.6, shock IEC 68.2.29		
Axial / Radial Force¹	1000N	500N	1000N		N/A	800N / 500N (10 sec)		
Warranty⁴	2 Years		2 years		2 years	2 years		

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1 For further specification details, please see datasheets of the respective products.
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 Unique (64 bit RO), Q5 (264 bit RW), HITAG S (32 bit RO, 256 bit RW, 2048 bit RW), EM4305 (512 bit RW), ICODE SLIX-L (512 bit EEPROM, incl. 256 bit user memory), ICODE SLIX (1024 bit EEPROM, incl. 896 bit user memory), ICODE SLIX-S (2048 bit EEPROM, incl. 1280 bit user memory)

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%

PRODUCT COMPARISON CHART

Medical and Health



Product Name	Epoxy Tag				Logi Tag 161	LinTag™	SlimFlex Laundry 2G	Piccolino Tag	
Application	Extra thin, printable RFID tags with high mechanical and thermal stability				Mechanical, chemical and temperature resistant tags for harsh environments	Flexible UHF tag for linen or other medical laundry	Flexible small UHF Tag for garments or plastic equipment	Tiny tag for custom housing with high memory capacity and fast anti-collision	
Frequency	125 kHz	13.56 MHz	860-960 MHz (Worldwide)		13.56 MHz	865 MHz (EU) / 915 MHz (US)	860-960 MHz (Worldwide)		13.56 MHz
Size	Ø20x1 mm	Ø20 or 30x1 mm	30 × 45 × 1.6 mm	83x25x1 mm	Ø16x2.9mm	max. 50x22x1.6 mm	55x12x2.2 mm		Ø7.5x1 mm, Ø9.5x1 mm Ø9.5x1 mm
Screw Hole	none	None, Ø3.2 mm	5 mm	3 mm	N/A	N/A	N/A		N/A
Standards / Protocol Support	N/A		ISO 14443A - NFC Tag Type 4	EPC C1G2, ISO 18000-6C	ISO 15693, ISO 18000-3, ATEX	EPC C1G2, ISO 18000-6C		ISO 15693, ISO 18000-3	ISO 15693
Chip Type	HITAG S	Unique	Trusted Tag	Higgs 3	ICODE SLIX-L, SLIX	G2IL	Higgs 3		ICODE SLIX, Vigo F-Mem
Memory ¹	2048 bit RW	64 bit RO	8 KB	64 bit TID, 96 bit EPC, 512 bit RW	512 bit RW, 1024 bit RW	128 bit EPC, 64 bit TID	96 bit EPC, 64 bit TID, 512 bit RW		1024 bit RW 16 Kbit RW
Anti-collision	Yes	N/A		Yes	Yes	Yes		Yes	
Typical Use Environment	Plastic				Cloth	Linen, garments	Cloth, plastic		Depends on finished product
Reading Distance*	N/A		Proximity (NFC Tap)	up to 26.3 ft (8 m)	up to 13.4" (34 cm)	up to 10 ft (3 m)	up to 14.7 ft (4.5 m)		N/A
Mounting Method	Screw-on, glue or encapsulate				Embed	Stitch, heat-seal, embed	embed, glue		Depends on finished product
Operating Temperature ²	-25°C to +85°C		-40°C to +85°C		-40°C to +85°C	-40°C to +85°C		-40°C to +85°C	-20°C to +85°C
Storage Temperature ²	-40 °C to +85 °C				-40°C to +85°C	-40°C to +85°C		-40 °C to +85 °C	
Peak Temperature ²	+140 °C (1x24h)		+160°C (1x10h)		+120 °C (100h), Heat patch +220 °C (30s)	+120 °C (100h), Heat patch +220°C (10s)		N/A	
Housing Material	Epoxy				PPS	Cotton and polyester	TPE		Epoxy
Chemical and Environmental Resistances ²	Water, IP69K (100 bar at 80°C, 30 sek., 16 l/min), Salt Mist, Petroleum, Oils				Water, IP68 (1m, 24h), HCL, bleach, perchlorethylen	Water, oil and all commercial washing detergents, up to 300 washing cycles	Water IP68 (1m, 24h), mineral oil, petroleum, salt mist, vegetable oil, HCL (10%), Bleach (5%); UV light; food compatible		Depends on finished product
Mechanical Resistances ²	Vibration IEC 68.2.6, Shock IEC 68.2.29, 100 drops 1.8 m				Vibration IEC 68.2.6, shock IEC 68.2.29, 100 drops 1.8 m	Vibration IEC 68.2.6, Shock IEC 68.2.29, 100 drops 1.8 m			N/A
Axial / Radial Force ²	N/A		1000N (10 sec)		1000N / 1000N (10 sec)	1000N / 1000N (10 sec)		N/A	
Pressure ²	N/A				70 bars (3 min, isostatic)	60 bars (extraction press)	70 bars (5 min, isostatic)		N/A
Warranty ³	2 years				2 years	3 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), ICODE SLIX-L (512 bit EEPROM, incl. 256 bit user memory), ICODE SLIX (1024 bit EEPROM, incl. 896 bit user memory), ICODE SLIX-S (2048 bit EEPROM, incl. 1280 bit user memory), Vigo (1024 bit RW)
² For further specification details, please see datasheets of the respective product.
³ 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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PRODUCT COMPARISON CHART

Commercial Laundry



Product Name	LinTag™	SlimFlex Laundry 2G	Logi Tag 161	Logi Button Tag 162	Logi Tag 120	Logi Tag 160
Application	Flexible UHF tag for linen, garments or other laundry	Flexible small UHF Tag for garments or plastic equipment	Mechanical, chemical and temperature resistant tags for harsh environments such as laundries		Mechanical, chemical and temperature resistant tags for harsh environments such as laundries	
Frequency	865 MHz (EU) / 915 MHz (US)	860-960 MHz (Worldwide)	13.56 MHz		125 kHz	
Size	max. 50x22x1.6 mm	55x12x2.2 mm	Ø16x3 mm	Ø16x2.5 mm	Ø12.4x2 mm	Ø16x3 mm
Standards / Protocol Support	EPC C1G2, ISO 18000-6C		ISO 15693, ISO 18000-3, ATEX		ATEX	
Chip Type ¹	G2IL	Higgs 3	ICODE SLIX	ICODE SLIX-L	HITAG S, Q5, Unique	Unique
Memory	128 bit EPC, 64 bit TID	96 bit EPC, 64 bit TID, 512 bit RW	1024 bit RW	512 bit RW	64 Bit RO, 256 bit RW, 264 bit RW, 2048 bit RW	64 bit RO
Anti-collision	Yes		Yes		HITAG S - Yes	N/A
Reading Distance ²	up to 10 ft (3 m)	up to 14.7 ft (4.5 m)	Up to 13.4" (34 cm)		N/A	
Mounting Method	Stitch, heat-seal, embed	Embed, glue	Embed in cloth	Sew-on	Embed in cloth	
Operating Temperature ³	-40°C to +85°C		-40 °C to +85 °C		-25°C to +85°C	-40°C to +85°C
Storage Temperature ³	-40°C to +85°C		-40 °C to +85 °C		-40 °C to +130 °C	-40 °C to +120 °C
Peak Temperature ³	+120 °C (100h), Heat patch +220°C (10s)		+120 °C (100h), Heat patch +220°C (30s)	+120 °C (100h)	+160 °C (35h)	
Spin Dryer / Tunnel Finisher ³	365° F / 185° C (15 min.)		+175 °C (100 x 10 min)		N/A	+175 °C (100 x 10 min)
Thermal Shock ³	+68° to +320° F (+20° to +160° C), 200 x 5 min with 30 sec transition		20°C to +160°C (100 x 5 min)		-20°C to +160°C (100 x 5 min)	
Housing Material	Cotton and polyester	TPE	PPS		PPS with epoxy potting	Epoxy
Chemical and Environmental Resistances ³	Water, oil and all commercial washing detergents, up to 300 washing cycles	Water IP68 (1m, 24h), mineral oil, petroleum, salt mist, vegetable oil, HCL (10%), Bleach (5%); UV light; food compatible	Water, IP68 (1m, 24h), Industrial laundry detergent pH 10-11, Neutralizing agent, Hydrogen peroxide 5%, Perchlorethylene		Water IP68 (1m, 24h), saltwater, gasoline, oil, HCL, bleach, formic acid, caustic soda	
Mechanical Resistances ³	Vibration IEC 68.2.6, Shock IEC 68.2.29, 100 drops 1.8 m		Vibration IEC 68.2.6, Shock IEC 68.2.29, 100 drops 1.8 m		Vibration IEC 68.2.6, shock IEC 68.2.29	
Axial / Radial Force ³	1000N / 1000N (10 sec)		1000N / 1000N (10 sec)	N/A	800N / 500N (10 sec)	1000N / 1000N (10 sec)
Pressure ³	60 bars (extraction press)	70 bars (5 min, isostatic)	70 bars (10 sec., isostatic)		70 bars (3 min, isostatic)	
Warranty ⁴	3 years		2 years		2 years	

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1 Unique (64 bit RO), Q5 (264 bit RW), HITAG S (256 bit RW, 2048 bit RW), ICODE SLIX-L (512 bit EEPROM, incl. 256 bit user memory), ICODE SLIX (1024 bit EEPROM, incl. 896 bit user memory), ICODE SLIX-S (2048 bit EEPROM, incl. 1280 bit user memory), Vigo (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. Unique, and ICODE SLIX have a minimum operating temperature of -40°C, previous chip generations had -25°C.

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%

PRODUCT COMPARISON CHART

Asset Tracking & Logistics



Product Name	Brick Tag Ceramic	InLine Ultra (Weld)	InLine Ultra Mini	SlimFlex Tag Standard		Seal Tag vTamper		Seal Tag eTamper	Seal Tag edTamper	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		Robust RFID seals with built-in tamper evident, easy to fix cable tie and electronic tamper detection in selected models				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)	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)	24x0.7x0.3 (60x18x8mm)	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)	23.3x17.5x3.3 mm	39x14x3.6 mm	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	Ø4.5 mm	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	Seal wire : 65 mm, white	Seal wire : 78 mm, white	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	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	Monza R6	ICODE SLIX	Higgs 3	ICODE SLIX	Higgs 3	ICODE SLIX	UCODE G2IM+	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	96 bit EPC, 48 bit TID	1024 bit RW	64 bit TID, 96 bit EPC, 512 bit RW	1024 bit RW	64 bit TID, 96 bit EPC, 512 bit RW	1024 bit RW	96 bit TID, 256 bit EPC, 112 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				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 9.8 ft (3 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		up to 6.5 ft (2 m)	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				-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 +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				Shock -40°C to +90°C	-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	PC/ABS	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				Flame resistant UL94V0		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-IK07	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		Vibration IEC 68.2.6, Shock IEC 68.2.29		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	2 years		2 years				2 years		2 years		2 years		

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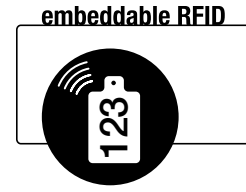
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1 Unique (64 bit RO), Q5 (264 bit RW), HITAG S (32 bit RO, 256 bit RW, 2048 bit RW), EM4305 (512 bit RW), ICODE SLIX-L (512 bit EEPROM, incl. 256 bit user memory), ICODE SLIX (1024 bit EEPROM, incl. 896 bit user memory), ICODE SLIX-S (2048 bit EEPROM, 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%

PRODUCT COMPARISON CHART

Embeddable RFID



Product Name	Glass Tags							Glass Tag Ultra	Clear Disc			Inlays & Labels		Piccolino Tag		Logi Tag 081	E-Unit Rod	E-Unit Disc	E-Module	PCB Coin	Brick Tag	
Application	Small size with high chemical resistance provides an ideal solution for long term immersion into liquid or customized enclosures							Glass Tube with up to 35% better read range than standard tube of same size	Clear disc tag for custom housing			Clear inlays or printable labels for NFC or other applications		Tiny tag for custom housing with high memory capacity and fast anti-collision			Embeddable RFID tags - designed for customized enclosure			Highly robust near-field UHF coins for embedding.	Tag for car immobilizers, cables and other special applications where small size is required	
Frequency	125 kHz		134.2 kHz			13.56 MHz		134.2 kHz	125 kHz		13.56 MHz	13.56 MHz		13.56 MHz	134.2 kHz		13.56 MHz	865 MHz (EU) / 915 MHz (US)		125 kHz	13.56 MHz	
Size	Ø1.4x8 mm	Ø2x12 mm, Ø3x13 mm	Ø4x 22 mm	Ø3x13 mm, Ø4x22 mm	Ø3.85x 22.5 mm	Ø2x12 mm, Ø3x13 mm	Ø4x22 mm	Ø2x9 mm, Ø2x12.5 mm	Ø20 or 30x0.6 mm	Ø22 or 30x0.6 mm	Ø25x0.75 mm	Ø29 or 40 mm or 18x57 mm (ICODE SLIX)	Ø6x0.8 mm, Ø7.5x1 mm, Ø9.5x1 mm	Ø6x0.8 mm, Ø9.5x1 mm	Ø8x2 mm	Ø1x7 mm, Ø1.8x15 mm	Ø 20, 24, 27, 28 mm or custom	Ø 14.5 x 0.9 mm + hole Ø 6.8 mm	16x0.9 mm, 19x12 x 0.9 mm	12.1 x 6.1 x 3.0 mm	10.2 x 3 x 2.6 mm	
Standards / Protocol Support¹	ATEX		EN14803, ATEX			ISO 15693, ISO 18000-3, ATEX		ATEX			ISO 14443	ISO 14443 or 15693, NFC	ISO 15693, ISO 18000-3	ISO 15693	ISO 15693, ISO 18000-3	ISO 11784, ISO 11785		ISO 15693, ISO 18000-3	ISO 18000-6C, EPC C1G2	N/A	ISO 15693, ISO 18000-3	
Chip type	EM 4305	Q5, HITAG S, Unique	Unique	FDX-b BDE	HDX BDE	Vigo	ICODE SLIX	EM 4305	HITAG S, Unique	Q5	MIFARE 1K, DESFire EV1 4K	NTAG 213, ICODE SLIX, Trusted Tag	ICODE SLIX, Vigo	F-Mem	Vigo	HITAG S, EM4305, other on request		ICODE SLIX	Monza 4E	HDX, Nova	Vigo	
Memory²	512 bit RW	64 bit RO, 256 bit RW, 264 bit RW, 2048 bit RW	64 bit RO	128 bit RO		1664 bit RW	1024 bit RW	512 bit RW	64 bit RO, 256 bit RW, 2048 bit RW	264 bit RW	1-4 kByte RW	144 Byte, 112 byte or 8 KByte	1024 bit RW or 1664 bit RW (6 mm Vigo)	2 Kbit RW 16 Kbit RW	1024 bit RW	256 bit RW, 512 bit RW, 2048 bit RW		1024 bit RW	96 bit TID, 496 bit EPC, 128 bit RW	128 bit RO, 160 bit RW	1024 bit RW	
Anti-collision	HITAG S - Yes				Yes			HITAG S - Yes	N/A	Yes			Yes	Yes	HITAG S - Yes		Yes	Yes		Yes		
Typical Use Environment	Used in customized housings for non-animal applications							Custom enclosure			Smart poster, non-metal assets	Custom enclosure		Custom enclosure			Custom enclosure	Custom enclosure				
Mounting Method	External housing							Custom enclosure			Glue	Custom enclosure	Sew into, glue, embed	Custom enclosure			Custom enclosure	Custom enclosure				
Operating Temperature³	-25°C to +85°C (-40°C minimum for Unique and Q5 chip)							-20 °C to +60 °C			-20°C to +70° C	-40 °C to +85 °C	-20 to +85°C	-40°C to +85°C	-25 °C to +60 °C		-25 °C to +85 °C	-40°C to +85°C	-40°C to +90°C	-25°C to +70°C		
Storage Temperature³	-40 °C to +90 °C							-20 °C to +60 °C			-20°C to +70° C	-40 °C to +85 °C		-40°C to +90°C	-40 °C to +60 °C		-40 °C to +120 °C	-40°C to +85°C	-40°C to +120°C	-25°C to +70°C		
Peak Temperature³	+120 °C (100h) +140 °C (10h)							N/A				N/A			N/A			+220 °C (30s)	N/A			
Housing Material	Glass							Bio Glass	Polyethylen + Polyester (outside)			PET (inlay), Paper (label)	Epoxy	ABS/Epoxy Potting	N/A		FR4 + Epoxy glob top	PCB	Epoxy	ABS/Epoxy Potting		
Chemical and Environmental Resistances³	Water, IP68 (1m, 24 h), saltwater, alcohol, HCL, fuel, ammonia							Depends on finished product			Water, IP67 (1m, 1h)	Water, IP67 (1m, 1h)	Water, IP68 (1m, 24h)	Depends on finished product			Water, IP68 (1m, 24h), Mineral oil, petroleum, salt mist, vegetable oil	Water IP68, saltwater, gasoline, oil, HCL, bleach, formic acid, caustic soda				
Mechanical Resistances³	Vibration IEC 68.2.6, shock IEC 68.2.29							Depends on finished product			Vibration IEC 68.2.6, Shock IEC 68.2.29	Depends on finished product		Depends on finished product			Vibration IEC 68.2.6, Shock IEC 68.2.29	Vibration IEC 68.2.6, Shock IEC 68.2.29, Impact IEC 62262-IK08	Vibration IEC 68.2.6, Shock IEC 68.2.29			
Warranty⁴	2 years							2 years			2 Years	2 years		2 years			2 Years					

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¹ ISO 11784, ISO 11785 for HITAG S and EM4305 chip only
² Unique (64 bit RO), Q5 (264 bit RW), HITAG S (32 bit RO, 256 bit RW, 2048 bit RW), Titan (1024 bit RW), EM4305 (512 bit RW), ICODE SLIX (1024 bit EEPROM, incl. 896 bit user memory), Vigo (1024 or 1664 bit RW), NTAG 213 (144 Byte RW), Trusted Tag (8 KB RW)
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%

Industry & Logistics Embeddable Readers



Product Name	Multi-Tag	MIFARE Easy		Multi-ISO	
Product Type	Reader Core	Reader Core	Reader Board RS232 Compact	Reader Core	Reader Board RS232
Base Model Number	701800013 (FDX), 0701800013-1 (FDX+HDX)	0701800133-IDT	0701800029-IDT	0701800159-1	701800160
Dimensions	25.5 mm x 30.5 mm x 6 mm	25.5 mm x 30 mm x 4.8 mm	70 mm x 45 mm x 12.1 mm	25.5 mm x 30 mm x 4.8 mm	70 mm x 45 mm x 12.1 mm
Power Supply	5VDC +/- 10% Regulated	5 VDC ± 10% regulated		5 VDC ± 10% regulated	
Power Supply Connector	N/A	N/A		N/A	
Antenna Support	Single External	External	Integrated	External	Integrated
External Antenna Connector	N/A	N/A		N/A	
RF Transmit Frequency	125 kHz , 134.2 kHz	13.56 MHz		13.56 MHz	
Supported Standards	ISO 11784, ISO 11785 ISO 18000-2	ISO 14443 A		ISO14443A, ISO14443B, ISO 15693, ISO 18000-3, NFC enabled, ICODE	
Supported Tag-IC's	HITAG 1, HITAG 2, HITAG S, Q5 EM4X02, EM4X05 (ISO FDX B), EM4X50 TI-RFID systems 134.2 kHz 64Bit R/O, TI-RFID systems 134.2 kHz 64Bit R/W TI-RFID systems 134.2 kHz 1088Bit multipage	MIFARE® Standard, MIFARE® 4k, MIFARE® Pro X, MIFARE® Ultralight, MIFARE® DESFire® (serial no. only), SLE66R35, SLE44R35, ISO 14443A Tags		MIFARE™ Standard / EV1, MIFARE 4k, MIFARE Plus, MIFARE Pro, MIFARE Ultralight, MIFARE Ultralight C, MIFARE DESFire®, MIFARE DESFire EV1 /EV2, MIFARE SmartMX, NTAG 2xx, ICODE SLIX (SL2 ICS 20), ICODE EPC (SL2 ICS 10), I-CODE UID, (SL2 ICS 11), ICODE, NFC (Reader To Tag Mode) SLE 55Rxx, SRF55VxxP +S, SLE 66CL160S, SLE 66CLX320P, SR176, SR1X4K, LRI 64, LRI 512, EM4135, KSW Temp Sens® Tag-it™ HF-I Standard, Tag-it™ HF-I Pro, Jewel Tag, Sharp B, ISO14443A Tags, ISO14443B Tags, ISO15693 Tags, ISO18000-3 Tags, MasterCard PayPass and Visa payWave compliant tags	
Communication Interface	CMOS-TTL Serial Interface 9600Bits/s to 115kBits/s, 8, N, 1	CMOS-TTL Serial Interface 9600Bits/s to 57600Bits/s, 8, N, 1	RS232 Serial Interface 9600Bits/s to 57600Bits/s, 8, N, 1	CMOS-TTL Serial Interface 9600Bits/s to 460kBits/s, 8, N, 1	RS232 Serial Interface 9600Bits/s to 115kBits/s, 8, N, 1
Global Certification	RoHS, WEEE	RoHS		RoHS	
Software	DLL (C++) & Reader Utility Program	Virtual COM port, API - DLL		Virtual COM port, API - DLL (MSVC++)	
Warranty	1 Year	1 Year		1 Year	

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