### Waste Management

waste management						٩	0					
Product Name	Bin	Тад	Bin Tag HDX	Bin Tag HF	Bin Tag UHF	Plug	a Tag	InLine Ultra (Weld)	InLine Ultra Slim (Weld)	IN Tag 200	0/300/500	I
Application	For integration into waste management collection bins during or after n			er 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	2 kHz	13.56 MHz	860-960 MHz (Worldwide)	131 kHz	134.2 kHz	860 - 960 MH	Hz (Worldwide)	125 kHz	13.56 MHz	
Size		Ø30x15 mm			Ø9x19mn		ap Ø15x19 mm)	97x27x15 mm (Ultra) 105x35x15 mm (Ultra weld)	97x27x9 mm (Ultra) 105x35x9 mm (Ultra weld)	Ø20 or 30x2.5 i	mm, Ø50x3 mm	
Screw hole		N/A			N/A	N	/A		optional steel to weld	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	I-Code SLIx	Higgs 3	Unique	FDX-b BDE	Monza 4QT		Hitag S, Unique	I-Code SLIx	
Memory <sup>2</sup>	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 b	it EPC, 512 bit RW	64 bit RO, 256 bit RW, 2048 bit RW	1024 bit RW	
Anti-collision	Ν	N/A N/A			Yes		/A	١	/es	Hitag S - Yes	Yes	
Reading Distance <sup>1</sup>	Ν	/Α	N/A	N/A	Up to 6.5ft / 2m	N/A		Up to 26.2 ft Up to 16.4 ft (8 m) (5 m)		N,	/A	
Typical Use Environment			Plastic			Plastic		Metal, plastic, wood, glass		Plastic, wood, glass		
Mounting Method		Scre	ew-in		N/A	Plug-in Screw-on or weld		on or weld	Embed, glue or screw-on			
Operating Temperature <sup>1</sup>	-40 °C 1	:o +85 °C	-25 °C to +70 °C	-25°C to +85°C	-40 °C to +70 °C	-20 °C t	co +85 °C	-40°C	to +80°C	-25°C to +85°C	-40°C to +85°C	
Storage Temperature <sup>1</sup>	-40 °C t	o +90 °C	-40 °C to +85 °C	-40°C to +90°C	-40 °C to +70 °C	-20 °C t	co +85 °C	-40°C to +80°C		-40°C to +85°C		
Peak Temperature <sup>1</sup>	Ν	/A	N/A	N/A	N/A	N	/A	Shock -4	0° to +85°	+140 °C	C (100h)	
Housing Material		Hou	ising PA6, potting -	PUR		P	46	PC	-ABS	PI	PA	
Chemical and Environmental Resistances <sup>1</sup>	Water, IP67 (1m, 1 h), salt mist, fuel B, petroleum, mineral and vegetable oils					Water, IP 68 (1m, 24 h)		sek., 16 l/min), sa	00 bar at 80°C, 30 alt mist, petroleum, lity 70°/80%	Water, IP68 (1m, 24h), Salt mist, Fuel B, petroleum, mineral and vegetable oils, food compatible, flame resistant UL94 HB		V
Mechanical Resistances <sup>1</sup>	,	Vibration IEC 68.2.6	, shock IEC 68.2.29,	compression 10001	Ν		IEC 68.2.6, C 68.2.29		68.2.6,shock IEC t IEC 62262-IK09		IEC 68.2.6, C 68.2.29	
Axial / Radial Force <sup>1</sup>			1000N (10 sec)			Ν	/A	10	00N	800N / 50	ON (10 sec)	
Warranty <sup>3</sup>			7 years			7 y	ears	ر 7	/ears	7 ye	ears	
7	For further specification d	etails, please see datasheets	of the respective products .	Read range is strongly dep	endent upon multiple	2 Unique (64 bit RO), Q5 (264 bit RW), Hitag S (32 bit RO, 256 bit RW, 2048 bit RW), I-Code SLIx (1024 bit EEPROM, incl. 896 b						oit u

1 For further specificatio For further specification details, please see datasheets of the respective products .Read range is strongly dependent upon multi, parameters including reader, environment and application. HID Global tags are tested and proven to be at the top of their class. Unique (64 bit RO), Q5 (264 bit RW), Hitag S (32 bit RO, 256 bit RW, 2048 bit RW), I-Code SLIx (1024 bit EEPROM, incl. 896 bit user memory)
Warranty: Storage condition must not exceed specification for temperature, chemical, mechanical, electrical condition, storage from -25°C to + 50°C, humidity 20% to 80%





7 years

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2014-01-31-idt-waste-management-ct-en

### Animal Identification

animal identification									
Product Name	Glass Tag Ultra		Glass Tags						
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 RI implants. Pleas
Size	Ø2x9 mm³, Ø2x12.5 mm³	1.4x8 mm <sup>3</sup>	Ø2x12 mm³	Ø2x12 mm	Ø3x15 mm	Ø3.85x22.5 mm	Ø4x22 mm	Ø4x34 mm	Ø1x7 mm, Ø1.8>
Frequency		134.2 kHz		125 kHz		134.2	2 kHz		
Standards / Protocol Support	ISO 11784, ISO 11785			N/A		ISO 11784,	ISO 11785		IS
Chip Type	EM4	4305	Hitag S, EM4305	Unique	Hitag S	HDX	Hitag S,	, EM4305	I
Memory <sup>1</sup>	512 b	512 bit RW 256 bit RW, 5 RW, 2048 bit			256 bit RW	128 bit OTP	256 bit RW, 512 bit RW		256 bit RV
Tagging Method		Subcutaneous		External housing e.g. pigeon ring	Subcutaneous, primarily horses	External housing External housing e.g. ceramic bol (stomach)			Ear tag o customized im
Operating Temperature <sup>2</sup>				-25 °C t	o +85 °C				
Storage Temperature <sup>2</sup>				-40 °C t	o +90 °C				
Peak Temperature <sup>2</sup>		+120 °C (100h	) +140 °C (10h)		+120 °C (100h)	+1	20 °C (100h) +140 °C (10	Dh)	
Housing Material		BIO Glass							
Chemical and Environmental Resistances <sup>2</sup>		Water, IP68 (1m, 24h), saltwater, alcohol, HCL, fuel, ammonia							Depen
Mechanical Resistances <sup>2</sup>		Vibration IEC 68.2.6, shock IEC 68.2.29							
Parylene Coating Available (better tissue adhaesion)	Yes				Yes				
Warranty <sup>4</sup>				2 ye	ears				
	1. For further specification details								

For further specification details, please see datasheets of the respective products.
Hitag S (256 bit RW), EM4305 (512 bit RW)
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





2 years

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### Automation & Manufacturing

automation				C	0			0	•	
Product Name	IN Tag 200	IN Tag 200/300/500			IN Tag 500 UHF (OM)	Logi Tag 121 OM	Po	bly Tag 340	Volcano Tag 231	Iron Tag
Application	n Ruggedized for severe industrial environments, food compatible			collision support an	ew-on tag with anti d on-metal option up 140°	Micro-sized and thin, high performance HF disc tag with on-metal option	-	or use requiring extreme impact resistance	Tag to withstand high temperatures	On-meta temperature
Frequency	125 kHz	13.56	6 MHz	865 MHz (EU)	/ 915 MHz (US)	13.56 MHz	125 kHz 13.56 MHz		125 kHz	865 MHz (E MHz (I
Size	Ø20 or 30x2.5 m Ø50x3 mm	nm,	Ø20x or 30x2.8 mm Ø50x3.3 mm	Ø50x3.5 mm Ø55x13 mm		Ø12.4x2.15 mm	Ø34x8 mm		Ø26x4 mm	53x23x7
Screw Hole	None (IN Tag 200) or Ø5.2mm			Ø5.	3 mm	N/A	N/A Ø5.4 mm			N/A
Standards / Protocol Support <sup>1</sup>	ISO 15693, ISO 180	000-3	ISO 15693	ISO 18000-0	6C, EPC C1G2	ISO 15693, ISO 18000-3, ATEX	ISO 156	693, ISO 18000-3	N/A	EPC C1 ISO 1800
Chip Type	Hitag S, Unique	I-Code SLIx	F-Mem	Gź	G2XM		Unique	Hitag S I-Code SLIx	Unique, Q5, Hitag S	Higgs
Memory <sup>3</sup>	64 bit RO, 256 bit RW, 2048 bit RW	1024 bit RW	16 Kbit RW	240 bit EPC, 64	240 bit EPC, 64 bit TID, 512 bit RW		64 bit RO	256 bit RW, 2048 bit RW 1024 bit RW	64 bit RO, 256 bit RW, 264 bit RW, 2048 bit RW	64 bit TID, 90 512 bit
Anti-collision	Hitag S - Yes	Yes	Yes	Y	/es	Yes		Yes	Hitag S - Yes	Yes
Reading Distance 1	N/A		N/A	Up to 9.8 ft / 3 m		N/A		N/A	N/A	Up to 13.1 ft
Typical Use Environment	Plastic, w	ood, glass		Plastic, wood	Metal, plastic, wood	Metal, Plastic	Plastic, wood		Any to withstand equal temperatures	Meta
Mounting Method	Embed, glue	e or screw-on		Screw-on		Embed, glue	Screw-on		Screw-on	Glue or s
Operating Temperature <sup>1</sup>	-25°C to +85°C	-40°C t	to +85°C	Ν	I/A	-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
Storage Temperature <sup>1</sup>	-40 °C t	to +90 °C		-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
Peak Temperature 1	+140 °C	C (100h)		+140 °0	C (100h)	+90 °C (100h)	+100 °C (100h)	+130 °C (100h)	+160 °C (100h) +200 °C (10min)	+180°C (4
Housing Material	PI	PA		P	PA	PPS		PA6	PPA	PPA
Chemical and Environmental Resistances <sup>1</sup>	mineral and vedetable oils food compatible flame			Water, IP68 (1m, 24h), 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, water with salt, unleaded gasoline, petroleum, mineral and vegetable oils, humidity 90% HR @ 90 °C		Water, IP68 (1m, 24h)	Water, IP69K at 80°C, 30 min), salt mi mineral and oils, petroleu compatible (UL94HB) resista
Mechanical Resistances 1	Vibration IEC 68.2.0	6, shock IEC 68	3.2.29	Vibration IEC 68.2.	6, shock IEC 68.2.29	Vibration IEC 68.2.6, Shock IEC 68.2.29	Vibration IEC 6	58.2.6, shock IEC 68.2.29	Vibration IEC 68.2.6, shock IEC 68.2.29	Vibration IE shock IEC
Axial / Radial Force 1	800N / 50	ON (10 sec)		800N / 50	00N (10 sec)	800N / 500N (10 sec)	800N	/ 500N (10 sec)	N/A	1000
Warranty <sup>4</sup>	7 y	ears		7 y	vears	2 years		2 years		2 yea

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.

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) I-Code SLIx-L (512 bit EEPROM, incl. 256 bit user memory), I-Code 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%

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





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2014-01-31-idt-automation-ct-en

## ReturnableTransport Items

Product Nm   SimFlex Square   Inline Tag Data   On Media DRT Data Data   Inline Tag Data <t< th=""><th>IN Tag , Hi ant &amp; Ø50</th></t<>	IN Tag , Hi ant & Ø50
Application   Ragging, May be laser engraved with human radable information or adable information readable inforead readable informatine readable informa	' ant
Frequency   B60-960 MH2 (Worldwide)   metab), 860 - 960 MH2 (non-metal)   860-960 MH2 (Worldwide)   125 kHz   125 kHz <th< th=""><th>¢50</th></th<>	¢50
Size     85x15x3 mm     120x68x3.7 mm     88x37x14.5 mm (including metal ring)     043,6x12.9 mm (including metal ring)     04x355.5 mm     020 or 30x2.5 mm, 950x3 mm       Screw hot     Ø3 mm     Ø4.2 mm     Q42.0 m     N/A     N/A     N/A     None (IN Tag 2-) or 95.2 mm       Standards / Protocol Support     ISO 18000-6C, EPC IGZ ISO 17364     ISO 18000-6C, EPC IGZ ISO 17364     ISO 18000-6C, EPC IGZ ISO 17364     ISO 17364     IN/A     N/A     N/A     None (IN Tag 2-) or 95.2 mm       Standards / Protocol Support     ISO 18000-6C, EPC IGZ ISO 17364     ISO 18000-6C, EPC IGZ ISO 17364     ISO 18000-6C, EPC IGZ ISO 17364     ISO 17364     ISO 17364     ISO 17364     ISO 17364     ISO 17364       Memory     64 bit TID, 96 bit EPC 1S2 ISO 17364     Monza3     Monza3     Monza4     Minza4     Hitag S     Iso 160, EPC IS2 ISO 1800     Iso 17364     Iso 173640     Iso 173640 <t< th=""><th>Ø5C</th></t<>	Ø5C
Standards / Protocol SupportISO 18000-6C, EPC C13264ISO 18000-6C, EPC C13264ISO 18000-6C, EPC C13264ISO 18000-6C, EPC C13264ISO 17364ISO 17	
Standards / Protocol SupportISO ISOU-6C, EPC Cli2, ISO I/364ISO I/3	
Memory64 bit TID, 96 bit EPC, 512 bit RW64 bit TID, 96 bit EPC, 512 bit RW64 bit TID, 96 bit EPC, 512 bit RW96 bit EPC96 bit EPC, 512 bit RW, 2048 bit RW, 2048 bit RW, 2048 bit RW64 bit RO64 bit RO, 256 bit RW, 2048 bit RW1024 bit RWAnti-collisionYesYesN/AHitag S - YesYesReading distanceUp to 26.2 ft (8 m)Up to 19.7 ft (6 m) on metal, up to 24.6 ft (75 m) off-metalUp to 22.9 ft (7 m)up to 26.2 ft (8 m)N/AAlitag S - YesN/ATypical use environmentPlastic, WoodContainer taggingMetal kegs. Turs etc.Kegs e.g. beerWoodPlastic, WoodPlastic, JassMounting methodGlue or Screw-onScrewScrewWeld on metal, glueWeld on metal, glueWeld on metal, glueMailEmbed, glue or screw-on	- ISO
Memory   bit RW   64 bit RD, 96 bit EPC   96 bit EPC   512 bit RW   2048 bit RW   2048 bit RO   2048 bit RO   2048 bit RW   1024 bit RW     Anti-collision   Yes   Anti-collision   Yes   Anti-collision   Yes   Anti-collision   Hitag S - Yes   Yes     Reading distance <sup>2</sup> Up to 26.2 ft (8 m)   Up to 19.7 ft (6 m) or, metal, up to 24.6 ft (7 m)   Up to 22.9 ft (7 m)   up to 26.2 ft (8 m)   N/A   N/A   Anti-collision   Plastic, Wood   Plastic, Wood   Plastic, Wood   Container tagging   Metal kegs, trus etc.   Kegs e.g. beer   Wood   Mounting metal, glass   Metal kegs, glass     Mounting method   Glue or Screw-on   screw   Screw   Weld on metal, glue   Weld on metal, glue   Nail   Embed, glue or screw-on	
Reading distance <sup>2</sup> 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 29.9 ft (7 m) up to 26.2 ft (8 m) N/A N/A N/A   Typical use environment Plastic, Wood Container tagging Metal kegs, drums etc. Kegs e.g. beer Wood Plastic, wood, glass   Mounting method Glue or Screw-on screw Weld on metal, glue Weld on metal, glue Nail Embed, glue or screw-on	240
Reading distance <sup>2</sup> Up to 26.2 ft (8 m)   metal, up to 24.6 ft (7.5 m) off-metal   Up to 22.9 ft (7 m)   up to 26.2 ft (8 m)   N/A   N/A   N/A     Typical use environment   Plastic, Wood   Container tagging   Metal kegs, drums etc.   Kegs e.g. beer   Wood   Plastic, wood, glass     Mounting method   Glue or Screw-on   screw   Weld on metal, glue   Weld on metal, glue   Nail   Embed, glue or screw-on	
Mounting method   Glue or Screw-on   screw   Weld on metal, glue   Weld on metal, glue   Nail   Embed, glue or screw-on	
	Plas
Operating Temperature <sup>1</sup> -40°C to +70°C     -40°C to +85°C     -30°C to +70°C     -40°C to +80°C     -25°C to +85°C     -25°C to +85°C     -40°C to +85°C	
Storage Temperature <sup>1</sup> -40°C to +70°C     -40°C to +85°C     -40°C to +85°C     -40°C to +85°C     -25°C to +85°C     -40°C to +90°C	
Peak Temperature'     Shock -40 to +70°     Shock -40° to +85°     N/A     Shock -40° to +85°     N/A     N/A     +140 °C (100h)	
Housing Material   TPE   ABS/PC   ABS / Steel   PC-ABS / Steel   ABS / Steel   PPA   PPA	
Chemical and Environmental ResistancesWater, IP68 (1m, 24h), salt mist, petroleum, mineral and vegetable oils, UV resistant, food compatibleWater, IP69K (100 bar at 80°C, 30 sek., 16 l/min), Salt Mist, Petroleum, Oils,Water, IP69K (1m, 1h), salt mist, petroleum, oilsWater, IP69K (1m, 24h), salt mist, fuel B, salt mist, petroleum, Oils, humidity 70°/80%Water, IP67 (1m, 1h)Water, IP67 (1m, 1h)Water, IP67 (1m, 1h)	Wate petrolei com
Mechanical Resistances <sup>1</sup> Vibration IEC 68.2.6, Shock IEC 68.2.9, Vibration IEC 68.2.6, shock IEC 68.2.9, Impact IEC 62262-IKO8 N/A Vibration IEC 68.2.6, shock IEC 68.2.9	Vibra
Axial / Radial Force <sup>1</sup> 1000N     500N     1000N     N/A     N/A     800N / 500N (10 sec)	
Warranty <sup>4</sup> 2 Years 2 years 2 years 2 years	

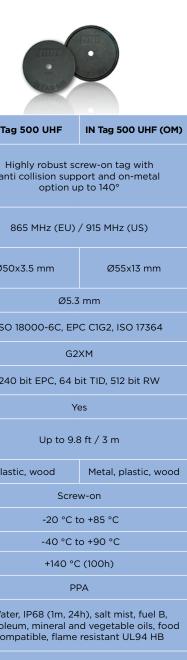
For further specification details, please see datasheets of the respective products.
Read range is strongly dependent upon multiple parameters including reader, environment and application. HID Global tags are tested and proven to be at the top of their class.

3 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 SLIx-L (512 bit EEPROM, incl. 256 bit user memory), I-Code SLIx (1024 bit EEPROM, incl. 896 bit user memory), I-Code 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%





ration IEC 68.2.6, shock IEC 68.2.29

800N / 500N (10 sec)

7 years

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## Medical and Health

medical and health

medical and health		•			sa cymor Ta		
Product Name		Epoxy D	isc	Logi Tag 141	Logi Tag 161	SlimFlex Laundry	
Application	Robust, gener	ral pupose flat o	disc to glue or screw-on		temperature resistant tags nvironments	Flexible but robust small UHF Tag	Tiny tag for c capa
Frequency		125 kH	Z	13.56	5 MHz	860-960 MHz (Worldwide)	
Size	Ø20, 30 or 50x1 mm	Ø30x1.5 mm	Ø30x1 mm	Ø14x2.9mm	Ø16x2.9mm	55x12x2.3 mm	Ø7.5x1 mm, mm
Screw Hole	None, Ø3.2 or Ø4.3 mm	Ø3.2 mm	Ø12 mm	N	/Α	N/A	
Standards / Protocol Support		N/A		ISO 15693, ISO	18000-3, ATEX	EPC C1G2, ISO 18000-6C	ISO 156 ISO 1800
Chip Type	Hitag S	Unique	Q5	I-Code SLIx-L	I-Code SLIx-L, SLIx	G2IM	I-Code SLI
Memory <sup>1</sup>	2048 bit RW	64 bit RO	264 bit RW	512 bit RW	512 bit RW, 1024 bit RW	96 bit TID, 256 bit EPC, 512 bit RW	1024 bit
Anti-collision	Yes		N/A	Y	es	Yes	
Typical Use Environment		Plastic	2	Cl	oth	Cloth, plastic	Dep
Reading Distance*		N/A		up to 12.6" (32 cm)	up to 13.4" (34 cm)	up to 8.2 ft (2.5 m)	
Mounting Method	Sci	rew-on, glue or	encapsulate	Em	bed	embed, glue	Dep
Operating Temperature <sup>2</sup>		-25 °C to +	85 °C	-40°C 1	to +85°C	-40°C to +85°C	-40°C to
Storage Temperature <sup>2</sup>		-40 °C to +	-85 °C	-40°C 1	to +85°C	-40°C to +85°C	
Peak Temperature <sup>2</sup>	+140 °C (1x24h)		+120 °C (1x24h)	+120 °C (100h), Hea	t patch +220 °C (30s)	+120 °C (100h), Heat patch +220°C (30s)	
Housing Material		Epoxy	/	Р	PS	TPE	
Chemical and Environmental Resistances <sup>2</sup>	Water, IP67 (1	m, 1h), mineral	oils, ethanol, petrol, fuel	Water, IP68 (1m, 24h), HC	CL, bleach, perchlorethylen	Water IP68 (1m, 24h), mineral oil, petroleum, salt mist, vegetable oil, HCL (10%), Bleach (5%); UV light; food compatible	Dep
Mechanical Resistances <sup>2</sup>		N/A		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	
Axial / Radial Force <sup>2</sup>		N/A		1000N / 100	DON (10 sec)	1000N / 1000N (10 sec)	
Pressure <sup>2</sup>		N/A		70 bars (3 n	nin, isostatic)	70 bars (10 sec.)	
Warranty <sup>3</sup>		2 year	s	2 y	ears	2 years	

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 SLIx-L (512 bit EEPROM, incl. 256 bit user memory), I-Code SLIx-S (2048 bit EEPROM, incl. 1280 bit user memory), Vigo (1024 bit RW)
For further specification details, please see datasheets of the respective product.
Warranty: Storage condition must not exceed specification for temperature, chemical, mechanical, electrical condition, storage from -25°C to + 50°C, humidity 20% to 80%





#### Piccolino Tag

r custom housing with high memory pacity and fast anti-collision

13.56	MHz					
n, Ø9.5x1 m	Ø9.5x1 mm					
N,	Ά					
5693, 200-3	ISO 15693					
_lx, Vigo	F-Mem					
oit RW	16 Kbit RW					
Ye	ès					
pends on finished product						
N/A						
pends on finished product						
o +85°C	-20°C to +85°C					
-40 °C t	o +85 °C					
N,	/Α					
Epo	оху					
pends on finished product						
N/A						
N/A						
N,	/Α					

2 years

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2014-01-31-idt-medical-ct-en

## Laundry

laundry					•	LOGITAG 120 Unique	
Product Name	SlimFlex <sup>™</sup> Laundry	Logi Tag 121	Logi Tag 141	Logi Tag 161	Logi Button Tag 162	Logi Tag 120	
Application	Flexible but robust small UHF tag	Mechanical,	chemical and temperature resista	nt tags for harsh environments such	as laundries	Mechanical, chemical ar tags for harsh environr	
Frequency	860-960 MHz		13.5	6 MHz			kHz
Size	55x12x2.3 mm	Ø12.4x2.0 mm	Ø14x2.9 mm	Ø16x3 mm	Ø16x2.5 mm	Ø12.4x2 mm	
Standards / Protocol Support	EPC C1G2, ISO 18000-6C		ISO 15693, ISC	) 18000-3, ATEX		AT	ΓEX
Chip Type <sup>1</sup>	G2IM	Vigo	Vigo I-Code SLIx-L I-Code SLIx-L, I-Code SLIx I-Code SLIx-L		Hitag S, Q5, Unique		
Memory	96 bit TID, 256 bit EPC, 512 bit RW	1024 bit RW	512 bit RW	512 bit RW, 1024 bit RW	512 bit RW	64 Bit RO, 256 bit RW, 264 bit RW, 2048 bit RW	
Anti-collision	Yes		Hitag S - Yes				
Reading Distance <sup>2</sup>	up to 8.2 ft (2.5 m)	N/A	N,	I/A			
Mounting Method	Embed, glue		Embed in cloth Sew-on				
Operating Temperature <sup>3</sup>	-40 °C to +85 °C		-40 °C	to +85 °C		-25°C to +85°C	
Storage Temperature <sup>3</sup>	-40 °C to +85 °C		-40 °C	to +85 °C		-40 °C to +130 °C	
Peak Temperature <sup>3</sup>	+120 °C (100h), heat patch +220 °C (30s)	N/A	+120 °C (100h), He	at patch +220°C (30s)	+120 °C (100h)	+160 °	C (3
Spin Dryer / Tunnel Finisher <sup>3</sup>	N/A	N/A		+175 °C (100 x 10 min)		N/A	
Thermal Shock <sup>3</sup>	+20°C to +160°C (200 x 5 min)	-40°C to +90°C (100 x 5 min)		20°C to +160°C (100 x 5 min)		-20°C to +160°	°C (1
Housing Material	TPE		F	PPS		PPS with epoxy potting	
Chemical and Environmental Resistances <sup>3</sup>	Water IP68 (1m, 24h), mineral oil, petroleum, salt mist, vegetable oil, HCL (10%), bleach (5%); UV light; food compatible	Water IP68 (1m, 24h), Mineral oil, petroleum, salt mist, vegetable oil, food compatible	oil, petroleum, salt mist,				salt ic ac
Mechanical Resistances <sup>3</sup>	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	6, sh
Axial / Radial Force <sup>3</sup>	1000N / 1000N (10 sec)	800N / 500N (10 sec)	1000N / 10	000N (10 sec)	N/A	800N / 500N (10 sec)	
Pressure <sup>3</sup>	70 bars (10 sec.)		70 bars (10	sec., isostatic)		70 bars (3 n	nin, i
Warranty <sup>4</sup>	2 years		ر 2	/ears		2 ye	ears

Unique (64 bit R0), Q5 (264 bit RW), Hitag S (256 bit RW, 2048 bit RW), I-Code SLix-L (512 bit EEPROM, incl. 256 bit user memory), I-Code SLix (1024 bit EEPROM, incl. 896 bit user memory), I-Code SLix-S (2048 bit EEPROM, incl. 1280 bit user memory), Vigo (1024 bit RW)
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.

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





Logi Tag 160
d temperature resistant nents such as laundries
(Hz
Ø16x3 mm
EX
Unique
64 bit RO
N/A
A
in cloth
-40°C to +85°C
-40 °C to +120 °C
C (35h)
+175 °C (100 x 10 min)
C (100 x 5 min)
Ероху

altwater, gasoline, oil, acid, caustic soda

shock IEC 68.2.29

1000N / 1000N (10 sec)

, isostatic)

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2014-01-31-idt-laundry-ct-en

## Asset Tracking & Logistics

asset tracking and logistics					Horid	240	Contraction of the second		
Product Name	InLine Ultra (Weld)	InLine Ultra Slim (Weld)	SlimFlex Tag Standard	Seal Tag	World	Tag	Jewelry Tag	Tamper Evident Jewelry Tag	
Application	Robust high performance, general purpose UHF transponder for metal and non metal outdoor use		Flexible, ruggedized UHF tag for industrial / outdoor environments SlimFlex tag with built-in tamper evident cable tie		Best general use pric for indoor asset		Tag to track and inventory high-value merchandise like jewelry		
Frequency	860 - 960 MHz (	(Worldwide)	860-960 MHz	(Worldwide)	125 k	Hz	13.56	6 MHz	
Size	97x27x15 mm (Ultra) 105x35x15 mm (Ultra weld)	97x27x9 mm (Ultra) 105x35x9 mm (Ultra weld)	77x25x3 mm (screw) 83x25x3 mm (slot) 87x25x3 mm (cable tie hole)	83x25x3 mm	Ø20 or 30x2.1 mm	Ø50x2.1 mm	22x16.5x3.3 mm	Ø16.5x22.75x2.5 mm	
Screw Hole	Ø5.2 mm or optional	steel ring to weld	Ø3 mm (screw) 2x6 mm (slot) Ø7 mm (cable tie hole)	Cable Tie: 360x6.4x2.15 mm, black	none or Ø3.2 mm	Ø4.2 mm	85 mm (Nylon or cotton string optional)	60 mm wire length	
Standards / Protocol Support	ISO 18000-6C, EPC C1G2, ISO 17364, DIN 40050-9		EPC C1G2, IS	O 18000-6C	N/A		ISO 15693, ISO 18000-3		
Chip Type	Monza 4QT		Higg	is 3	Hitag S, Q5, Titan, Unique		I-code SLIx-L		
Memory	96 bit TID, 128 bit EPC, 512 bit RW		64 bit TID, 9 512 bit		64 bit RO, 256 bit RW, 264 bit RW, 1024 bit RW, 2048 bit RW		512 bit RW		
Anti-collision	Yes		Ye	S	Hitag S	- Yes	Y	⁄es	
Reading Distance <sup>2</sup>	up to 26.2 ft (8 m)	up to 16.4 ft (5 m)	Up to 26.3	5 ft (8 m)	N/A		N/A		
Typical Use Environment	Metal, Plastic, V	Vood, Glass	Plastic, di	ry wood	Plastic, glass		Valuable assets in stores e.g. jewelry		
Mounting Method	Screw-on c	or Weld	Glue or screw-on	Integrated cable tie	Glue or screw-on	Screw-on	Attach v	vith string	
Operating Temperature <sup>3</sup>	-40°C to	+80°C	-40°C to	o +70°C	-25 °C to	• +70 °C	0 °C to +60 °C		
Storage Temperature <sup>3</sup>	-40°C to +80°C		-40°C to	o +70°C	-40 °C to +90 °C		-20 °C to +85 °C		
Peak Temperature <sup>3</sup>	Shock -40°	to +85°	Shock -40°0	C to +70°C	+130 °C (100h)	+100 °C (100h)	Ν	I/A	
Housing Material	PC-ABS		TP	E	PC	2	ţ	РС	
Chemical and Environmental Resistances <sup>3</sup>	Water, IP69K (100 bar at 80°C, 30 sek., 16 l/min), salt mist, petroleum, oils, humidity 70°/80%		Water, IP68 (1m, 24h), salt mist, petroleum, mineral and vegetable oils		N/A		N/A		
Mechanical Resistances <sup>3</sup>	Vibration IEC 68.2.6, s impact IEC 62		Vibration IEC 68.2.6, shocl 62262		Vibration IEC 68.2.6, shock IEC 68.2.29,		N/A		
Axial / Radial Force <sup>3</sup>	1000	N	1000N		500N / 300N (10 sec) (10 sec)		N/A		
Warranty <sup>4</sup>	7 уеа	rs	2 уе	ars	2 ye	ars	2 y	rears	

 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 SLIx-L (512 bit EEPROM, incl. 256 bit user memory), I-Code SLIx (1024 bit EEPROM, incl. 896 bit user memory), I-Code SLIx-S (2048 bit EEPROM, incl. 1280 bit user memory), Titan (1024 bit RW)
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.

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





#### Epoxy Tag (key fob)

Printable, engravable tag with high mechanical and thermal stability, suits most standard applications for access control or time and attendance

125 kHz

13.56 Mhz

45x30x1.6 mm

Ø5 mm

N/A	ISO 15693, ISO 18000-3
Hitag S, Unique	I-code SLIx
64 bit RO, 256 bit RW	1024 bit RW
Hitag S - Yes	Yes
NZ	Ά

Access control & time attendance

Keyring, chain

-25 °C to +85 °C

-40 °C to +95 °C

+140 °C (1x24h)

Ероху

Water, IP67 (1m, 1h), mineral oil, ethanol, petrol, fuel

Drop test 1.8m (10x10 cycles)

N/A

2 years

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2014-01-31-idt-assettracking-ct-en

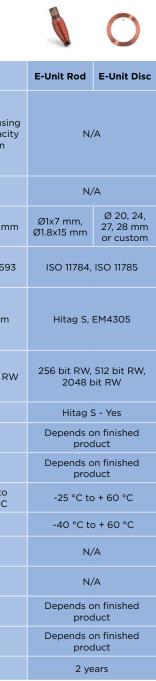
## Embeddable RFID

										æ	
Product Name Glass	Tags				Glass Tag Ultra	Clear Disc			Piccolino Tag		
Application Small size with high chemical resis for long term immersion into lic					Glass Tube with up to 35% better read range than standard tube of same size	Clear di	sc tag for cu	stom housi	ing	Tiny tag for cu with high mer and fast an	nory capacity
Frequency 125 kHz	131 kHz	134.2	2 kHz	13.56 MHz	134.2 kHz	125 kl	Hz	13.56	6 MHz	13.56 MHz	
<b>Size</b> Ø1.4x8 mm Ø2x12 mm Ø3x13 mm Ø4x 22 mm	Ø3x13 mm	Ø3x13 mm, Ø4x22 mm	Ø3.85x22.5 mm	Ø4x22 mm	Ø2x9 mm, Ø2x12.5 mm	Ø20 or 30x0.6 mm	Ø22 or 30x0.6 mm	Ø25x0	).75 mm	Ø7.5x1 mm, Ø9.5x1 mm	Ø9.5x1 mn
Standards / ATEX	ISO 15693, EN14803, ATEX ISO 18000- 3, ATEX			ATEX	EN14443		ISO 15693, ISO 18000-3	ISO 15693			
Chip type EM 4305 Q5, Hitag S, Q5, Hitag S, Unique Titan Unique	Unique	FDX-b BDE	HDX BDE	I-Code SLIx	EM 4305	Hitag S, Unique	Q5	MIFARE 1K, DESFire EV1 4K	Legic MIM 256, 1024	I-Code SLIx, Vigo	F-Mem
Memory²     512 bit RW     64 bit RO, 256 bit RW, 264 bit RW, 2048 bit RW     256 bit RW, 264 bit RW, 1024 bit RW, 2048 bit RW     64 bit RO	64 bit RO	128 b	bit RO	1024 bit RW	512 bit RW	64 bit RO, 256 bit RW, 2048 bit RW	264 bit RW	1-4 kByte RW	256 or 1024 bit RW	1024 bit RW	16 Kbit RV
Anti-collision     N/A     N/A     Hitag S - Yes     Hitag S - Yes		N/A		Yes		Hitag S - Yes	N/A	Yes	N/A	Ye	es.
Typical Use Environment Used in customized	housings for r	non-animal appli	cations			Depends on finished product				N/A	
Mounting Method	External hous	ing					Depends finished pro			N/A	
Operating Temperature <sup>3</sup> -25°C to +85°C (-40	°C minimum f	or Unique and G	15 chip)				-20 °C to +6	60 °C		-40 °C to +85 °C	-20 to +85°C
Storage Temperature <sup>3</sup>	-40 °C to +90 °C						-20 °C to +6	60 °C		-40 °C t	o +85 °C
Peak Temperature <sup>3</sup> +120 °	+120 °C (100h) +140 °C (10h)						N/A			N/	Ά
Housing Material Glas	ss				Bio Glass	Polyeth	ylen + Polyes	ster (outsic	le)	Epo	ху
Chemical and Environmental Resistances <sup>3</sup> Water, IP68 (1m, 24 h).	, saltwater, alc	ohol, HCL, fuel, a	ammonia			Depe	nds on finish	ed product	t	Deper finished	
Mechanical Resistances <sup>3</sup> Vibration IE	EC 68.2.6, sho	ck IEC 68.2.29				Depe	nds on finish	ed product	t	Deper finished	
Warranty <sup>4</sup>	2 years						2 years			2 ye	ars

1 ISO 11784, ISO 11785 for Hitag S and EM4305 chip only

2 Unique (64 bit R0), Q5 (264 bit RW), Hitag S (32 bit R0, 256 bit RW, 2048 bit RW), Titan (1024 bit RW), EM4305 (512 bit RW), Vigo (1024 bit 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%





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2014-02-04-idt-embedded-rfid-ct-en

# Industry & Logistics Readers



Product Name	Multi-Tag
Product Type	Reader Core
Base Model Number	701800013
Dimensions	25.5 mm x 30.5 mm x 6 mm
Power Supply	5VDC +/- 10% Regulated
Power Supply Connector	N/A
Antenna Support	Single External
External Antenna Connector	N/A
<b>RF Transmit Frequency</b>	125 kHZ , 134.2 kHz
Supported Standards	ISO 11784, ISO 11785 ISO 18000-2
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
Communication Interface	CMOS-TTL Serial Interface 9600Bits/s to 115kBits/s, 8, N, 1
Global Certification	RoHS, WEEE
Software	DLL (C++) & Reader Utility Program
Warranty	6 Months



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2014-01-31-idt-industry-logistics-readers-ct-en