

PRODUCT COMPARISON CHART

Waste Management



Product Name	Bin Tag			Bin Tag HDX		Bin Tag UHF		On Metal Bin Tag		Epoxy Disc			Plug Tag		IN Tag 200/300/500		IN Tag 500 UHF	IN Tag 500 UHF (OM)
	Application	For integration into waste management collection bins during or after molding						Especially designed for metal bins		Robust, general purpose flat disc			Easy-mounting, non-removable tag for tracking containers for hazardous, recycling, medical and sensitive waste		Ruggedized for severe industrial environments, food compatible		Highly robust screw-on tag with anti collision support and on-metal option up to 140°	
Frequency	125 kHz	134.2 kHz		915 MHz (US)		125 kHz	134.2 kHz	125 kHz			131 kHz	134.2 kHz	125 kHz	13.56 MHz	865 MHz (EU) / 915 MHz (US)			
Size	Ø30x15 mm						Ø34.5x15 mm, thread Ø33 mm		Ø20, 30 or 50x1 mm	Ø30x1.5 mm	Ø30x1 mm	9x19 or 15x19 mm		Ø20 or 30x2.5 mm, Ø50x3 mm		Ø50x3.5 mm	Ø55x13 mm	
Screw Hole	N/A						N/A		None, Ø3.2 or Ø4.3 mm	Ø3.2 mm	Ø12 mm	N/A		None (IN Tag 200) or Ø5.2mm		Ø5.3 mm		
Standards / Protocol Support	DIN30745	EN 14803, DIN 30745		EPC C1G2, ISO 18000-6C, DIN30745		EN 14803					EN 14803		ISO 15693, ISO 18000-3		ISO 18000-6C, EPC C1G2			
Chip Type¹	Unique	FDX-b BDE	HDX	Higgs 3		Unique	FDX-b BDE	Hitag S	Unique	Q5	Unique	FDX-b BDE	Hitag S, Unique	I-Code SLix	G2XM			
Memory	64 bit RO	128 bit RO	128 bit RO	96 bit EPC 512 bit RW		64 bit RO	128 bit RO	2048 bit RW	64 bit RO	264 bit RW	64 bit RO	128 bit RO	64 bit RO, 256 bit RW, 2048 bit RW	1024 bit RW	240 bit EPC, 512 bit RW			
Anti-collision							Yes				Yes			Hitag S - Yes	Yes	Yes		
Reading Distance*							Up to 6.5ft / 2m									Up to 9.8 ft / 3 m		
Typical Use Environment	Plastic						Metal, plastic		Plastic, wood			Plastic		Plastic, wood, glass		Plastic, wood	Metal, plastic	
Mounting Method	Screw-in						Screw-in		Screw-on, glue or encapsulate			Plug-in		Embed, glue or screw-on		Screw-on		
Operating Temperature²	-40 °C to +85 °C		-25 °C to +70 °C		-40 °C to +70 °C		-40 °C to +85 °C		-25 °C to +85 °C	-40 °C to +85 °C	-25 °C to +85 °C	-20 °C to +85 °C		-25 °C to +85 °C		-20 °C to +85 °C		
Storage Temperature²	-40 °C to +90 °C		-40 °C to +85 °C		-40 °C to +70 °C		-40 °C to +90 °C		-40 °C to +85 °C			-20 °C to +85 °C		-40 °C to +90 °C		-40 °C to +90 °C		
Peak Temperature²									+140 °C (1x24h)		+120 °C (1x24h)				+140 °C (100h)		+140 °C (100h)	
Housing Material	Housing PA6, potting - PUR						Housing PA6, potting - PUR		Epoxy			PA6		PPA		PPA		
Chemical and Environmental Resistances²	Water, IP67 (1m, 1 h), salt mist, fuel B, petroleum, mineral and vegetable oils						Water, IP67 (1m, 1 h), salt mist, fuel B, petroleum, mineral and vegetable oils		Water, IP67 (1m, 1h), mineral oils, ethanol, petrol, fuel			Water, IP 68 (1m, 24h)		Water, IP68 (1m, 24h), salt mist, fuel B, petroleum, mineral and vegetable oils, food compatible		Water, IP68 (1m, 24h), salt mist, fuel B, petroleum, mineral and vegetable oils		
Mechanical Resistances²	Vibration IEC 68.2.6, shock IEC 68.2.29, compression 1000N						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		
Axial / Radial Force²	1000N (10 sec)						1000N (10 sec)							800N / 500N (10 sec)		800N / 500N (10 sec)		
Warranty³	7 years						7 years		2 years			7 years		7 years		7 years		

¹ 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)
² For further specification details, please see datasheets of the respective products.
³ Storage condition must not exceed specification for temperature, chemical, mechanical, electrical condition, storage from -25°C to +50°C, humidity 20% to 80%

Animal Identification



Product Name	Glass Tags						E-Unit Rod	E-Unit Disc
Application	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	Ø2x8.5 mm	Ø2x12 mm ³	Ø3x13 mm	Ø3x15 mm	Ø4x22 mm	Ø4x34 mm	Ø1x7 mm, Ø1.8x15 mm	Ø 20, 24, 27, 28 mm or custom
Frequency	134.2 kHz		125 kHz	134.2 kHz			134.2 kHz	
Standards / Protocol Support	ISO 11784, ISO 11785			ISO 11784, ISO 11785			ISO 11784, ISO 11785	
Chip Type	EM4305	Hitag S, EM4305	Hitag S		Hitag S, EM4305		Hitag S, EM4305	
Memory ¹	512 bit RW	256 bit RW, 512 bit RW	256 bit RW		256 bit RW, 512 bit RW		256 bit RW, 512 bit RW, 2048 bit RW	
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
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		Glass	BIO Glass				
Chemical and Environmental Resistances ²	Water, IP68 (1m, 24h), saltwater, alcohol, HCL, fuel, ammonia						Depends on finished product	
Mechanical Resistances ²	Vibration IEC 68.2.6, shock IEC 68.2.29							
Parylene Coating Available (better skin adhesion)	Yes	Yes		Yes				
Warranty ⁴	2 years						2 years	

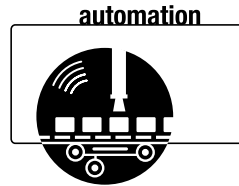
Finding what you need

HID Global has many more products to offer than fit on this page. Please refer to hidglobal.com or contact an HID representative for further assistance in evaluating these tags or selecting a solution that best fits your particular requirements.

¹ Hitag S (256 bit RW), EM4305 (512 bit RW)
² For further specification details, please see datasheets of the respective products.
³ Also available with custom programming through HID Global's Programming on Demand™ - Pet service. See hidglobal.com for details.
⁴ 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

Automation & Manufacturing



Product Name	IN Tag 200/300/500			IN Tag 500 UHF	IN Tag 500 UHF (OM)	Poly Tag 340			Volcano Tag 231	Brick Tag Nova
Application	Ruggedized for severe industrial environments, food compatible			Highly robust screw-on tag with anti collision support and on-metal option up to 140°		Durable tag for outdoor use requiring extreme impact resistance			Tag to withstand high temperatures	Tag for car immobilizers and other special applications where small size is required
Frequency	125 kHz	13.56 MHz		865 MHz (EU) / 915 MHz (US)		125 kHz	13.56 MHz		125 kHz	130 kHz
Size	Ø20 or 30x2.5 mm, Ø50x3 mm		Ø20x or 30x2.8 mm Ø50x3.3 mm	Ø50x3.5 mm	Ø55x13 mm	Ø34x8 mm			Ø26x4 mm	12.1 x 6.1 x 3.0 mm
Screw Hole	None (IN Tag 200) or Ø5.2mm			Ø5.3 mm		Ø5.4 mm			Ø4.5 mm	
Standards / Protocol Support ¹		ISO 15693, ISO 18000-3	ISO 15693	ISO 18000-6C, EPC C1G2			ISO 15693, ISO 18000-3		ISO 11784, ISO 11785	
Chip Type	Hitag S, Unique	I-Code SLIx	F-Mem	G2XM		Unique	Hitag S	I-Code SLIx	Unique, Q5, Hitag S	Nova
Memory ²	64 bit RO, 256 bit RW, 2048 bit RW	1024 bit RW	16 Kbit RW	240 bit EPC, 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	160 bit RW
Anti-collision	Hitag S - Yes	Yes	Yes	Yes			Yes		Hitag S - Yes	
Reading Distance ³				up to 9.8 ft / 3 m						
Typical Use Environment	Plastic, wood, glass			Plastic, wood	Metal, plastic, wood	Plastic, wood			Any to withstand equal temperatures	Car key or custom enclosure
Mounting Method	Embed, glue or screw-on			Screw-on		Screw-on			Screw-on	Enclose
Operating Temperature ⁴	-25 °C to +85 °C			-20 °C to +85 °C		-40 °C to +85 °C	-25 °C to +85°C		-25 °C to +85 °C	-40 °C to +90 °C
Storage Temperature ⁴	-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 +120 °C
Peak Temperature ⁴	+140 °C (100h)			+140 °C (100h)		+100 °C (100h)	+130 °C (100h)		+160 °C (100h) +200 °C (10min)	
Housing Material	PPA			PPA		PA6			PPA	Epoxy
Chemical and Environmental Resistances ⁴	Water, IP68 (1m, 24h), salt mist, fuel B, petroleum, mineral and vegetable oils, food compatible			Water, IP68 (1m, 24h), salt mist, fuel B, petroleum, mineral and vegetable oils		Water, water with salt, unleaded gasoline, petroleum, mineral and vegetable oils, humidity 90% H @ 90 °C			Water, IP68 (1m, 24h)	Water IP68 (1m, 24h), saltwater, gasoline, oil, HCL, bleach, formic acid, caustic soda
Mechanical Resistances ⁴	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	
Axial / Radial Force ⁴	800N / 500N (10 sec)			800N / 500N (10 sec)		800N / 500N (10 sec)				500N
Warranty ⁵	7 years			7 years		2 years			2 years	

¹ ISO 11784, ISO 11785 for Hitag S and EM4385 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)
³ 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.
⁴ For further specification details, please see datasheets of the respective products.
⁵ 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

Returnable Transport Items



Product Name	InLine 120/52 UHF Tag	On Metal RTI Transponder	Beer Keg Tag	Nail Tag	IN Tag 200/300/500		IN Tag 500 UHF	IN Tag 500 UHF (OM)
Application	Chemical resistant tag for all applications in logistics (pallet and container tracking), high-value assets and railroad applications where long distance reading performance is required	Multi-read capable, very robust transponder for curved metallic returnable transport items such as beer kegs, cylinders or glass bottles	Tag especially designed for kegs with optional metallic ring	Glass-fiber nail tag for easy insertion into wood for use in pallet identification	Ruggedized for severe industrial environments, food compatible		Highly robust screw-on tag with anti collision support and on-metal option up to 140°	
Frequency	865 MHz (EU) 915 MHz (US)	865-956 MHz (EU, US, JP)	123 kHz	125 kHz	125 kHz	13.56 MHz	865 MHz (EU) / 915 MHz (US)	
Size	120x52x20 mm	78x27x14 mm, 88x37x14 mm (including metal ring)	Ø33.6x12.9 mm, Ø43.6x12.9 mm (including metal ring)	Ø4x35.5 mm	Ø20 or 30x2.5 mm, Ø50x3 mm		Ø50x3.5 mm	Ø55x13 mm
Screw hole	Ø5.3 mm	curve radius: 450 mm	N/A	N/A	None (IN Tag 200) or Ø5.2mm		Ø5.3 mm	
Standards / Protocol Support	ISO 18000-6C, EPC C1G2, ISO 17364	ISO 18000-6C, EPC C1G2, ISO 17364	ISO 17364	ISO 17364	ISO 17364	ISO 15693, ISO 18000-3, ISO 17364	ISO 18000-6C, EPC C1G2, ISO 17364	
Chip type	G2XM	Monza3	Hitag S	Unique	Hitag S, Unique	I-Code SLIx	G2XM	
Memory¹	240 bit EPC, 512 bit RW	96 bit EPC	256 bit RW, 2048 bit RW	64 bit RO	64 bit RO, 256 bit RW, 2048 bit RW	1024 bit RW	240 bit EPC, 512 bit RW	
Anti-collision	Yes	Yes	Yes		Hitag S - Yes	Yes	Yes	
Reading distance²	Up to 19.7 ft (6 m)	Up to 22.9 ft (7 m)					Up to 9.8 ft / 3 m	
Typical use environment	Plastic, metal, wood	Metal kegs, drums etc.	Kegs e.g. beer	Wood	Plastic, wood, glass		Plastic, wood	Metal, plastic, wood
Mounting method	Screw-on	Weld on metal, glue	Weld on metal, glue	Nail	Embed, glue or screw-on		Screw-on	
Operating Temperature³	-40 °C to +75 °C	-30 °C to +70 °C	-25 °C to +85 °C	-25 °C to +85 °C	-25 °C to +85 °C		-20 °C to +85 °C	
Storage Temperature³	-40 °C to +90 °C	-40 °C to +70 °C	-40 °C to +85 °C	-25 °C to +85 °C	-40 °C to +90 °C		-40 °C to +90 °C	
Peak Temperature³					+140 °C (100h)		+140 °C (100h)	
Housing Material	EPDM	ABS / Steel	ABS / Steel	PPA	PPA		PPA	
Chemical and Environmental Resistances³	Water, IP68 (1m, 24h), saltwater, motor-oil, acetic acid, bleach	Water, IP67 (1m, 1h), salt mist, petroleum, oils	Water, IP67 (1m, 1h)	Water, IP67 (1m, 1h)	Water, IP68 (1m, 24h), salt mist, fuel B, petroleum, mineral and vegetable oils, food compatible		Water, IP68 (1m, 24h), salt mist, fuel B, petroleum, mineral and vegetable oils	
Mechanical Resistances³	Vibration IEC 68.2.6, shock IEC 68.2.29, impact IEC 62262-1K08	Vibration IEC 68.2.6, shock IEC 68.2.29, impact IEC 62262-1K08	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	
Axial / Radial Force³					800N / 500N (10 sec)		800N / 500N (10 sec)	
Warranty⁴	2 years	2 years	2 years	2 years	7 years		7 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 SLIx (1024 bit EEPROM, incl. 896 bit user memory)
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 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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Medical and Health



Product Name	Epoxy Disc			Piccolino Tag	Logi Tag 141	Logi Tag 161
Application	Robust, general pupose flat disc to glue or screw-on			Tiny tag for custom housing with high memory capacity and fast anti-collision	Mechanical, chemical and temperature resistant tags for harsh environments	
Frequency	125 kHz			13.56 MHz	13.56 MHz	
Size	Ø20, 30 or 50x1 mm	Ø30x1.5 mm	Ø30x1 mm	Ø9.5x1 mm	Ø14x2.9mm	Ø16x2.9mm
Screw Hole	None, Ø3.2 or Ø4.3 mm	Ø3.2 mm	Ø12 mm		N/A	
Standards / Protocol Support				ISO 15693, ISO 18000-3	ISO 15693, ISO 18000-3	
Chip Type	Hitag S	Unique	Q5	I-code SLix / SLix-S	I-Code SLix-L	I-Code SLix-L, SLix
Memory ¹	2048 bit RW	64 bit RO	264 bit RW	1024 bit RW 2048 bit RW	512 bit RW	512 bit RW, 1024 bit RW
Anti-collision	Yes			Yes	Yes	
Typical Use Environment	Plastic			Depends on finished product	Cloth	
Mounting Method	Screw-on, glue or encapsulate			Depends on finished product	Embed	
Operating Temperature ²	-25 °C to +85 °C			-25 °C to +70 °C	-25 °C to +85 °C	
Storage Temperature ²	-40 °C to +85 °C			-40 °C to +85 °C	-25 °C to +85 °C	
Peak Temperature ²	+140 °C (1x24h)		+120 °C (1x24h)		+120 °C (100h), Heat patch +220 °C (30s)	
Housing Material	Epoxy			Depends on finished product	PPS	
Chemical and Environmental Resistances ²	Water, IP67 (1m, 1h), mineral oils, ethanol, petrol, fuel			Depends on finished product	Water, IP68 (1m, 24h), HCL, Bleach, Perchlorethylen	
Mechanical Resistances ²					Vibration IEC 68.2.6, shock IEC 68.2.29, 100 drops 1.8 m	
Axial / Radial Force ²					1000N / 1000N (10 sec)	
Water Pressure ²					20 bars (100 x 3 min)	
Warranty ³	2 years			2 years	2 years	

Finding what you need

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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), 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)
² For further specification details, please see datasheets of the respective products.
³ 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	InLine 120/52 UHF Tag	InLine 230/15 UHF Tag	World Tag		Jewelry Tag	Tamper Evident Jewelry Tag	Epoxy Tag (key fob)		IN Tag 200/300/500		IN Tag 500 UHF	IN Tag 500 UHF (OM)
Application	Very robust tag for long-range outdoor applications		Best general use price/performance ratio for indoor asset identification		Tag to track and inventory high-value merchandise like jewelry		Printable, engravable tag with high mechanical and thermal stability, suits most standard applications for access control or time and attendance		Ruggedized for severe industrial environments, food compatible		Highly robust screw-on tag with anti collision support and on-metal option up to 140°	
Frequency	865 MHz (EU) / 915 MHz (US)		125 kHz		13.56 MHz		125 kHz	13.56 MHz	125 kHz	13.56 MHz	865 MHz (EU) / 915 MHz (US)	
Size	120x52x20 mm	230x15x15 mm	Ø20 or 30x2.1 mm	Ø50x2.1 mm	22x16x2.5 mm	Ø16x22x2.5 mm	45x30x1.6 mm		Ø20 or 30x2.5 mm, Ø50x3 mm		Ø50x3.5 mm	Ø55x13 mm
Screw Hole	Ø5.3 mm	Ø5.2 mm	none or Ø3.2 mm	Ø4.2 mm	85 mm (nylon string optional)	60 mm wire loop	Ø5 mm		None (IN Tag 200) or Ø5.2mm		Ø5.3 mm	
Standards / Protocol Support	ISO 18000-6C, EPC C1G2, ISO 17364				ISO 15693, ISO 18000-3			ISO 15693, ISO 18000-3		ISO 15693, ISO 18000-3	ISO 18000-6C, EPC C1G2, ISO 17364	
Chip Type	G2XM		Hitag S, Q5, Titan, Unique		I-code SLix-L		Hitag S, Unique	I-code SLix	Hitag S, Unique	I-Code SLix	G2XM	
Memory¹	240 bit EPC, 512 bit RW		64 bit RO, 256 bit RW, 264 bit RW, 1024 bit RW, 2048 bit RW		512 bit RW		64 bit RO, 256 bit RW	1024 bit RW	64 bit RO, 256 bit RW, 2048 bit RW	1024 bit RW	240 bit EPC, 512 bit RW	
Anti-collision	Yes		Hitag S - Yes		Yes		Hitag S - Yes	Yes	Hitag S - Yes	Yes	Yes	
Reading Distance²	Up to 19.7 ft (6 m)										Up to 9.8 ft / 3 m	
Typical Use Environment	Plastic, metal, wood		Plastic, glass		Valuable assets in stores e.g. jewelry		Access control & time attendance		Plastic, wood, glass		Plastic, wood	Metal, plastic, wood
Mounting Method	Screw-on		Glue or screw-on	Screw-on	Attach with string		Keyring, chain		Embed, glue or screw-on		Screw-on	
Operating Temperature³	-40 °C to +75 °C	-20 °C to +70 °C	-25 °C to +70 °C		0 °C to +60 °C		-25 °C to +85 °C		-25 °C to +85 °C		-20 °C to +85 °C	
Storage Temperature³	-40 °C to +90 °C	-40 °C to +70 °C	-40 °C to +90 °C		-20 °C to +85 °C		-40 °C to +95 °C		-40 °C to +90 °C		-40 °C to +90 °C	
Peak Temperature³			+130 °C (100h)	+100 °C (100h)			+140 °C (1x24h)				+140 °C (100h)	
Housing Material	EPDM	ABS-PC	PC		PC		Epoxy		PPA		PPA	
Chemical and Environmental Resistances³	Water, IP68 (1m, 24h), saltwater, motor-oil, acetic acid, bleach	Water, IP67 (1m, 1h), ethanol, petrol, fuel, mineral oil					Water, IP67 (1m, 1h), mineral oil, ethanol, petrol, fuel		Water, IP68 (1m, 24h), salt mist, fuel B, petroleum, mineral and vegetable oils, food compatible		Water, IP68 (1m, 24h), salt mist, fuel B, petroleum, mineral and vegetable oils	
Mechanical Resistances³	Vibration IEC 68.2.6, shock IEC 68.2.29		Vibration IEC 68.2.6, shock IEC 68.2.29,				Drop test 1.8m (10x10 cycles)				Vibration IEC 68.2.6, shock IEC 68.2.29	
Axial / Radial Force³			500N / 300N (10 sec)	500N / 100N (10 sec)					800N / 500N (10 sec)		800N / 500N (10 sec)	
Warranty⁴	2 years		2 years		2 years		5 years		7 years		7 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 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)

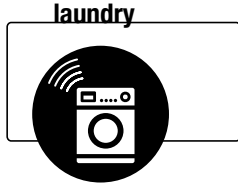
² Read range is strongly dependent upon multiple parameters including reader, environment and application. HID Global tags are tested and proven to be at the top of their class.

³ For further specification details, please see datasheets of the respective products.

⁴ 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

Laundry



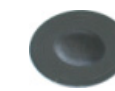
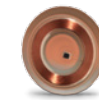
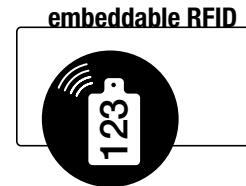
Product Name	Logi Tag 141	Logi Tag 161	Logi Button Tag 162	Logi Tag 120	Logi Tag 160
Application	Mechanical, chemical and temperature resistant tags for harsh environments such as laundries		Mechanical, chemical and temperature resistant tags for harsh environments such as laundries	Mechanical, chemical and temperature resistant tags for harsh environments such as laundries	
Frequency	13.56 MHz		13.56 MHz	125 kHz	
Size	Ø14x2.9 mm	Ø16x3 mm	Ø16x2.5 mm	Ø12.4x2 mm	Ø16x3 mm
Standards / Protocol Support	ISO 15693, ISO 18000-3		ISO 15693, ISO 18000-3		
Chip Type¹	I-Code SLix-L	I-Code SLix-L, I-Code SLix	I-Code SLix-L	Hitag S, Q5, Unique	
Memory	512 bit RW	512 bit RW, 1024 bit RW	512 bit RW	64 Bit RO, 256 bit RW, 265 bit RW, 2048 bit RW	
Anti-collision	Yes		Yes	Hitag S - Yes	
Reading Distance²	Up to 12.6" (32 cm)	Up to 13.4" (34 cm)			
Mounting Method	Embed in cloth		Sew-on	Embed in cloth	
Operating Temperature³	-25 °C to +85 °C		-25 °C to +85 °C	-40 °C to +130 °C	-25°C to +120 °C
Storage Temperature³	-25 °C to +85 °C		-25 °C to +85 °C	-40 °C to +130 °C	-25 °C to +120 °C
Peak Temperature³	+120 °C (100h), heat patch +220 °C (30s)		+120 °C (100h)		
Spin Dryer / Tunnel Finisher³	+175 °C (100 x 10 min)		+175 °C (100 x 10 min)	+175 °C (100 x 10 min)	
Thermal Shock³	-20 °C to +160 °C (100 x 5 min)				
Housing Material	PPS		PPS	PPS with epoxy potting	Epoxy
Chemical and Environmental Resistances³	Water, IP68 (1 m, 24h), HCL, bleach, perchlorethylen		Water, IP68 (1m, 24h), HCL, Bleach, Perchlorethylen	Water IP68 (1m, 24h), saltwater, gasoline, oil, HCL, bleach, formic acid, caustic soda	
Mechanical Resistances³	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 Force³	1000N / 1000N (10 sec)		800N / 500N (10 sec)		1000N / 1000N (10 sec)
Water Pressure³	20 bars (100 x 3 min)		20 bars (100 x 3 min)		
Warranty⁴	2 years		2 years	2 years	

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HID Global has many more products to offer than fit on this page. Please refer to hidglobal.com or contact an HID representative for further assistance in evaluating these tags or selecting a solution that best fits your particular requirements.

¹ Unique (64 bit RO), 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)
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 Storage condition must not exceed specification for temperature, chemical, mechanical, electrical condition, storage from -25°C to + 50°C, humidity 20% to 80%

Embeddable RFID



Product Name	Glass Tags								Clear Disc		Piccolino Tag	E-Unit Rod	E-Unit Disc	e-Module	
Application	Small size with high chemical resistance provides an ideal solution for long term immersion into liquid or customized enclosures								Clear disc tag for custom housing		Tiny tag for custom housing with high memory capacity and fast anti-collision.	Semi-finished tags - designed for customized enclosure		Embeddable RFID tags - designed for customized enclosure	
Frequency	125 kHz			131 kHz	134.2 kHz			13.56 MHz	125 kHz		13.56 MHz	134.2 kHz		13.56 MHz	
Size	Ø2x10 mm	Ø2x12 mm	Ø3x13 mm	Ø4x34 mm	Ø3x13 mm	Ø4x22 mm	Ø2x8.5 mm	Ø4x22 mm	Ø20 or 30x0.6 mm	Ø22 or 30x0.6 mm	Ø7.5x1 mm, Ø9.5x1 mm	Ø1x7 mm, Ø1.8x15 mm	Ø 20, 24, 27, 28 mm or custom	Ø 10.2 x 0.9 mm	Ø 14.5 x 0.9 mm + hole Ø 6.8 mm
Standards / Protocol Support ¹					EN14803	ISO 11784, ISO 11785	ISO 15693, ISO 18000-3			ISO 15693, ISO 18000-3	ISO 11784, ISO 11785		ISO 15693, ISO 18000-3		
Chip type	Hitag S	Q5, Hitag S, Unique	Q5, Hitag S, Titan	Unique	Unique	FDX-b BDE	EM4305	I-Code SLIx	Hitag S, Unique	Q5	I-code SLIx / SLIx-S	Hitag S, EM4305		EM4135	I-Code SLIx
Memory ²	256 bit RW, 2048 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 bit RO	512 bit RW	1024 bit RW	64 bit RO, 256 bit RW, 2048 bit RW	264 bit RW	1024 bit RW, 2048 bit RW	256 bit RW, 512 bit RW, 2048 bit RW		2.4 kbit RW	1024 bit RW
Anti-collision	Yes	Hitag S - Yes	Hitag S - Yes					Yes	Hitag S - Yes			Yes	Hitag S - Yes		Yes
Typical Use Environment	Used in customized housings for non-animal applications								Depends on finished product		Depends on finished product	Depends on finished product			
Mounting Method	External housing								Depends on finished product		Depends on finished product	Depends on finished product			
Operating Temperature ³	-25 °C to +85 °C								-20 °C to +60 °C		-25 °C to +70 °C	-25 °C to +60 °C		-25 °C to +85 °C	
Storage Temperature ³	-40 °C to +90 °C								-20 °C to +60 °C		-40 °C to +85 °C	-40 °C to +60 °C		-40 °C to +120 °C	
Peak Temperature ³	+120 °C (100h) +140 °C (10h)														
Housing Material	Glass													FR4 + Epoxy glob top	
Chemical and Environmental Resistances ³	Water, IP68 (1m, 24h), saltwater, alcohol, HCL, fuel, ammonia								Depends on finished product		Depends on finished product	Depends on finished product			
Mechanical Resistances ³	Vibration IEC 68.2.6, shock IEC 68.2.29								Depends on finished product		Depends on finished product	Depends on finished product		Vibration IEC 68.2.6, Shock IEC 68.2.29	
Warranty ⁴	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)
³ For further specification details, please see datasheets of the respective products.
⁴ 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 Readers



Product Name	Multi-Tag
Product Type	Reader Core
Base Model Number	701800013
Dimensions	25.5mm x 30.5mm x 6mm
Power Supply	5VDC +/- 10% Regulated
Power Supply Connector	N/A
Antenna Support	Single External
External Antenna Connector	N/A
RF Transmit Frequency	125kHz , 134.2kHz
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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