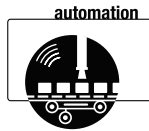


PRODUCT COMPARISON CHART

Automation & Manufacturing



Product Name	IN Tag 200/300/500			IN Tag 500 UHF	IN Tag 500 UHF (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			Highly robust screw-on tag with anti collision support and on-metal option up to 140°		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	Ø50x3.5 mm	Ø55x13 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			Ø5.3 mm		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	ISO 18000-6C, EPC C1G2		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	I-Code SLiX	F-Mem	G2XM		Vigo	Unique	Hitag S	I-Code SLiX	Unique, Q5	Higgs 3	Monza X	Monza 4QT
Memory ²	64 bit RO, 256 bit RW, 2048 bit RW	1024 bit RW	2 KByte RW, 8 KByte RW (IN Tag 300 only)	240 bit EPC, 64 bit TID, 512 bit RW		1024 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		Yes	Yes			No	Yes		Yes
Reading Distance ³	N/A		N/A	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			Plastic, wood	Metal, plastic, wood	Metal, Plastic	Plastic, wood			Any to withstand equal temperatures	Metal		manufacturing
Mounting Method	Embed, glue or screw-on			Screw-on		Embed, glue	Screw-on			Screw-on	Glue or sticker	Screw, clamp, glue or sticker	screw, rivet
Operating Temperature ⁴	-25°C to +85°C	-40°C to +85°C		N/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 +85°C		-40°C to +85°C
Storage Temperature ⁴	-40 °C 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 +90°C		-40°C to +85°C
Peak Temperature ⁴	+140 °C (100h)			+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			PPA		PPS	PA6			PPA	PPA		Aramid Polymer
Chemical and Environmental Resistances ⁵	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, 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 ⁵	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	Vibration IEC 68.2.6, Shock IEC 68.2.29, Impact IEC 62262-1K07		Vibration IEC 68.2.6, Shock IEC 68.2.29, Bending: 100x 300mm radius, 10x 100 mm radius - lengthwise
Axial / Radial Force ⁵	800N / 500N (10 sec)			800N / 500N (10 sec)		800N / 500N (10 sec)	800N / 500N (10 sec)			N/A	800N / 500N (10 sec)		50N
Warranty ⁴	7 years			7 years		2 years	2 years			2 years	2 years		

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) 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)
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%

Finding what you need

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2015-03-30:hid-tag-products-ct-en-PLT-00649