

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		860-960 MHz (Worldwide)	13.56 MHz	865 MHz (EU) / 915 MHz (US)	860-960 MHz (Worldwide)	
Size	Ø20x1 mm	Ø20 or 30x1 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	3 mm	N/A	N/A	N/A	N/A
Standards / Protocol Support	N/A		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	Higgs 3	I-Code SLix-L, SLix	G2IL	Higgs 3	I-Code SLix, Vigo F-Mem
Memory¹	2048 bit RW	64 bit RO	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	Yes
Typical Use Environment	Plastic		Cloth	Linen, garments	Cloth, plastic	Depends on finished product	
Reading Distance*	N/A		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 Temperature²	-40 °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 Temperature²	-40 °C to +85 °C		-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40 °C to +85 °C	
Peak Temperature²	+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 Resistances²	Water, IP67 (1m, 1h), mineral oils, ethanol, petrol, fuel		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 Resistances²	N/A		Vibration IEC 68.2.6, Shock IEC 68.2.29, 100 drops 1.8 m, IEC 62262-1K07	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 Force²	N/A		1000N (10 sec)	1000N / 1000N (10 sec)	1000N / 1000N (10 sec)		N/A
Pressure²	N/A		70 bars (3 min, isostatic)	60 bars (extraction press)	70 bars (5 min, isostatic)		N/A
Warranty³	2 years				3 years		2 years

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1 Unique (64 bit RO), QS (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), 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%