

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	860-960 MHz (Worldwide)	860-960 MHz (Worldwide)		13.56 MHz
Size	Ø20x1 mm	Ø20 or 30x1 mm	30 × 45 × 1.6 mm	83x25x1 mm	Ø16x2.9mm	max. 64x28 mm	55x12x2.2 mm		Ø7.5x1 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	MONZA M5	Higgs 3		ICODE SLIX (2), Vigo
Memory <sup>1</sup>	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	96 bit EPC, 64 bit TID, 512 bit RW		1024 bit RW 2560 bit 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 23 ft (7 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 <sup>2</sup>	-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 <sup>2</sup>	-40 °C to +85 °C				-40°C to +85°C	-40°C to +85°C		-40 °C to +85 °C	
Peak Temperature <sup>2</sup>	+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 <sup>2</sup>	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 200 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 <sup>2</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, Shock IEC 68.2.29, 100 drops 1.8 m		N/A	
Axial / Radial Force <sup>2</sup>	N/A		1000N (10 sec)		1000N / 1000N (10 sec)	1000N / 1000N (10 sec)		N/A	
Pressure <sup>2</sup>	N/A				70 bars (3 min, isostatic)	60 bars (extraction press)	70 bars (5 min, isostatic)		N/A
Warranty <sup>3</sup>	2 years				2 years	3 years		2 years	

<sup>1</sup> 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 (1024 bit EEPROM, incl. 896 bit user memory), ICODE SLIX2 (2560 bit user memory), Vigo (1024 bit RW)  
<sup>2</sup> For further specification details, please see datasheets of the respective product.  
<sup>3</sup> 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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