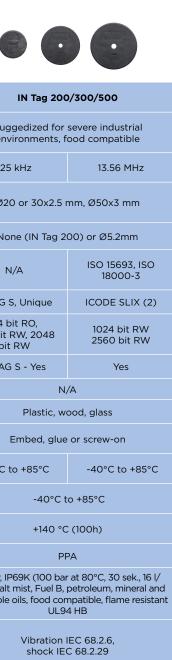# PRODUCT COMPARISON CHART

HID

Waste Management

waste management

Product Name	Bin Tag	Bin Tag HDX	Bin Tag HF	Bin Tag UHF	Plug Tag		InLine Ultra (Weld)	InLine Ultra Slim (Weld)	InLine Ultra Mini	IN Tag 200/300/500	
Application	For integration into waste management collection bins during or after 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 kHz		13.56 MHz	860-960 MHz (Worldwide)	131 kHz	134.2 kHz	860 - 960 MHz (Worldwide)			125 kHz	13.56 MHz
Size	Ø30x15 mm				Ø9x19mm (Cap Ø15x19 mm)		97x27x15 mm (Ultra) 105x35x15 mm (Ultra weld)	97x27x9 mm (Ultra) 105x35x9 mm (Ultra weld)	24x0.7x0.3 (60x18x8mm)	Ø20 or 30x2.5 mm, Ø50x3 mm	
Screw hole	N/A		Ø5.5 mm	N/A	N/A		Ø5.2 mm or optional steel ring to weld		Ø4.5 mm	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	ICODE SLIX	Higgs 3	Unique	FDX-b BDE	Monza 4QT		Monza R6	HITAG S, Unique	ICODE SLIX (2)
Memory [2]	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 bit EPC, 512 bit RW		96 bit EPC, 48 bit TID	64 bit RO, 256 bit RW, 2048 bit RW	1024 bit RW 2560 bit RW
Anti-collision	N/A	N/A	Yes		N/A		Yes			HITAG S - Yes	Yes
Reading Distance [1]	N/A	N/A	N/A	Up to 6.5ft / 2m	N/A		Up to 26.2 ft (8 m)	Up to 16.4 ft (5 m)	up to 9.8 ft (3 m)	N/A	
Typical Use Environment	Plastic				Plastic		Metal, plastic, wood, glass			Plastic, wood, glass	
Mounting Method	Screw-in				Plug-in		Screw-on or weld			Embed, glue or screw-on	
Operating Temperature [1]	-40 °C to +85 °C	-25 °C to +70 °C	-25°C to +85°C	-40 °C to +70 °C	-20 °C to +85 °C		-40°C to +85°C			-25°C to +85°C	-40°C to +85°C
Storage Temperature [1]	-40 °C to +90 °C	-40 °C to +85 °C	-40°C to +90°C	-40 °C to +70 °C	-20 °C to +85 °C		-40°C to +85°C			-40°C to +85°C	
Peak Temperature [1]	N/A	N/A	N/A	N/A	N/A		Shock -40° to +85°			+140 °C (100h)	
Housing Material	Housing PA6, potting - PUR				PA6		PC-ABS			PPA	
Chemical and Environmental Resistances [1]	Water, IP67 (1m, 1 h), salt mist, fuel B, petroleum, mineral and vegetable oils				Water, IP 68 (1m, 24 h)		Water, IP69K (100 bar at 80°C, 30 sek., 16 l/min), salt mist, petroleum, oils, humidity 70°/80%			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	
Mechanical Resistances [1]	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, Impact IEC 62262-IK09		Vibration IEC 68.2.6, Shock IEC 68.2.29, Impact IEC 62262-IK07	Vibration IEC 68.2.6, shock IEC 68.2.29	
Axial / Radial Force [1]	1000N (10 sec)				N/A		1000N			800N / 500N (10 sec)	
Warranty [3]	7 years				7 years		7 years			7 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 Unique (64 bit RO), Q5 (264 bit RW), HITAG S (32 bit RO, 256 bit RW, 2048 bit RW), ICODE SLIX (1024 bit EEPROM, incl. 896 bit user memory) , ICODE SLIX2 (2560 bit UM)
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%

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