









# Animal Identification

												
Product Name	Glass Tag Ultra <sup>1</sup>	Glass Tags <sup>1</sup>							E-Unit Rod	E-Unit Disc	E-Unit Packaged	Ear Tag
Application	Glass tube with up to 35% better read range than standard tube of same size	Small size with high chemical resistance provides an ideal solution for injection and long term immersion							Embeddable RFID tags - designed for customized enclosure			Reusable RAIN RFID management ear tag for cattle or industrial applications
Size	Ø2x9 mm, Ø2x12.5 mm	1.4x8 mm	1.4x10 mm	Ø2x12 mm	Ø3x15 mm	Ø3.85x22.5 mm, Ø3.85x32 mm	Ø4x22 mm	Ø4x34 mm	1.55 x 9 mm, 1.8 x 15 mm or 3.8 x 15 mm	Ø 20, 24 mm or custom	Ø 17.4 or 29 mm	116 x 77 x 1.7 mm
Frequency	134.2 kHz			134.2 kHz				134.2 kHz			860 MHz to 960 MHz	
Standards / Protocol Support	ISO 11784, ISO 11785			ISO 11784, ISO 11785				ISO 11784, ISO 11785			IEC 62262-IK08, EPC Gen2, ISO/IEC 18000-6C	
Chip Type	EM4305	HITAG S, EM4305		HITAG S	HDX	HITAG S, EM4305		HITAG S, EM4305, HDX	EM 4305, HDX		Monza M5/M7	
Memory	512 bit RW	256 bit RW, 512 bit RW, 2048 bit RW		256 bit RW	128 bit OTP	256 bit RW, 512 bit RW		256 bit RW, 512 bit RW, 128 bit OTP	512 bit RW, 128 bit OTP		128 bit	
Tagging Method	Subcutaneous			Subcutaneous	External housing		External housing e.g. ceramic bolus (stomach)		Ear tag or custom application			Ear Tag
Operating Temperature	-25 °C to +85 °C							-25 °C to + 60 °C			-40 to +85° C	
Storage Temperature	-40 °C to +90 °C							-40 °C to + 60 °C			-40 to +85° C	
Housing Material	BIO Glass										Thermoplastics Polyurethane (TPU)	
Chemical and Environmental Resistances	Water, IP68 (1m, 24h), saltwater, alcohol, HCL, fuel, ammonia							Resist on injection process			Mineral oil, Petroleum, Salt mist, UV light	
Parylene Coating Available (better tissue adhesion)	Yes			Yes	No							
Warranty <sup>2</sup>	2 years							2 years			2 Years	

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

<sup>1</sup> Optionally available with on-demand custom programming, see <http://www.hidglobal.com/main/services/on-demand/pet-programming/>

<sup>2</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%

For unpackaged tags: Warranty would depend on finished product and can only be given as long as raw product is not processed / packaged

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

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