

PRODUCT COMPARISON CHART

# Returnable Transport Items



Product Name	SlimFlex Square	On Metal RTI Transponder	InLine Ultra Curve	Beer Keg Tag	Nail Tag	IN Tag 200/300/500		IN Tag 500 UHF	IN Tag 500 UHF (OM)
<b>Application</b>	Flexible, UHF tag for pallet tagging. May be laser engraved with human readable information or barcode	Robust high performance transponder for curved metallic returnable transport items like beer kegs, gas cylinders etc.		Tag especially designed for kegs with optional metallic ring	Glass-fiber nail tag for easy insertion into wood for use in pallet identification	Ruggedized for severe industrial environments, food compatible		Highly robust screw-on tag with anti collision support and on-metal option up to 140°	
<b>Frequency</b>	865-956 MHz (EU, US, JP)	865-956 MHz (EU, US, JP)		123 kHz	125 kHz	125 kHz	13.56 MHz	865 MHz (EU) / 915 MHz (US)	
<b>Size</b>	85x115x3 mm	88x37x14.5 mm (including metal ring)		Ø33.6x12.9 mm, Ø43.6x12.9 mm (including metal ring)	Ø4x35.5 mm	Ø20 or 30x2.5 mm, Ø50x3 mm		Ø50x3.5 mm	Ø55x13 mm
<b>Screw hole</b>	Ø3 mm	Curve radius: 450 mm		N/A	N/A	None (IN Tag 200) or Ø5.2mm		Ø5.3 mm	
<b>Standards / Protocol Support</b>	ISO 18000-6C, EPC C1G2, ISO 17364			ISO 17364			ISO 15693, ISO 18000-3, ISO 17364	ISO 18000-6C, EPC C1G2, ISO 17364	
<b>Chip type</b>	Higgs 3	Monza3	Monza 4QT	Hitag S	Unique	Hitag S, Unique	I-Code SLix	G2XM	
<b>Memory<sup>3</sup></b>	64 bit TID, 96 bit EPC, 512 bit RW	96 bit EPC	96 bit TID, 128 bit EPC, 512 bit RW	256 bit RW, 2048 bit RW	64 bit RO	64 bit RO, 256 bit RW, 2048 bit RW	1024 bit RW	240 bit EPC, 64 bit TID, 512 bit RW	
<b>Anti-collision</b>	Yes			Yes		Hitag S - Yes	Yes	Yes	
<b>Reading distance<sup>2</sup></b>	Up to 26.2 ft (8 m)	Up to 22.9 ft (7 m)	up to 26.2 ft (8 m)					Up to 9.8 ft / 3 m	
<b>Typical use environment</b>	Plastic, Wood	Metal kegs, drums etc.		Kegs e.g. beer	Wood	Plastic, wood, glass		Plastic, wood	Metal, plastic, wood
<b>Mounting method</b>	Glue or Screw-on	Weld on metal, glue		Weld on metal, glue	Nail	Embed, glue or screw-on		Screw-on	
<b>Operating Temperature<sup>1</sup></b>	-40°C to +70°C	-30 °C to +70 °C	-40°C to +80°C	-25 °C to +85 °C	-25 °C to +85 °C	-25°C to +85°C	-40°C to +85°C	-20 °C to +85 °C	
<b>Storage Temperature<sup>1</sup></b>	-40°C to +70°C	-40 °C to +70 °C	-40°C to +80°C	-40 °C to +85 °C	-25 °C to +85 °C	-40 °C to +90 °C		-40 °C to +90 °C	
<b>Peak Temperature<sup>1</sup></b>	Shock -40 to +70°		Shock -40° to +85°			+140 °C (100h)		+140 °C (100h)	
<b>Housing Material</b>	TPE	ABS / Steel	PC-ABS / Steel	ABS / Steel	PPA	PPA		PPA	
<b>Chemical and Environmental Resistances<sup>1</sup></b>	Water, IP68 (1m, 24h), Salt mist, Petroleum, Mineral and vegetable oils	Water, IP67 (1m, 1h), salt mist, petroleum, oils	Water, IP68 (1m, 24h), Salt Mist, Petroleum, Oils, Humidity 70%/80%	Water, IP67 (1m, 1h)	Water, IP67 (1m, 1h)	Water, IP68 (1m, 24 h), salt mist, fuel B, petroleum, mineral and vegetable oils, food compatible		Water, IP68 (1m, 24h), Salt mist, Fuel B, Petroleum, Mineral and vegetable oils, Food compatible	
<b>Mechanical Resistances<sup>1</sup></b>	Vibration IEC 68.2.6, Shock IEC 68.2.29	Vibration IEC 68.2.6, Shock IEC 68.2.29, Impact IEC 62262-1K08				Vibration IEC 68.2.6, shock IEC 68.2.29		Vibration IEC 68.2.6, shock IEC 68.2.29	
<b>Axial / Radial Force<sup>1</sup></b>		1000N				800N / 500N (10 sec)		800N / 500N (10 sec)	
<b>Warranty<sup>4</sup></b>	2 years	2 years		2 years	2 years	7 years		7 years	

## Finding what you need

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

<sup>1</sup> For further specification details, please see datasheets of the respective products. I-Code SLix and F-Mem MB89118C have a minimum operating temperature of -40°C, previous chip generations had -25°C.  
<sup>2</sup> 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.  
<sup>3</sup> Unique (64 bit RO), Q5 (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)  
<sup>4</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%