Bin Tag

RFID tags that withstand the harsh environments of waste management

HID Bin Tag passive contactless transponders empower cost-effective waste management, enabling pay-as-you-throw and recycling incentive programs, while eliminating error-prone and expensive manual data collection.

Bin Tag devices communicate with readers via radio frequency identification (RFID) technology. Each durable Bin Tag transponder offers superior resistance to water, salt mist, mineral oil and petroleum, as well as high tolerance to shock and temperature variations. Each tag installs easily into standard nests, manufactured into most waste bins, including metal bins and DIN 30745 plastic bins. The unique four-cavity spanner screw drive helps prevent fraudulent removal of tags in the field.

Depending on reader configuration or standards requirements, organizations employing DIN 30745 form factor transponders can choose LF, HF or RAIN UHF tags. Each low-frequency Bin Tag transponder is equipped with 64-bit or 128-bit read-only memory; it may be pre-programmed with a unique number, or supplied in a programmable format according to BDE standards.

For read-write capability, the high-frequency Bin Tag HF version includes 1024-bit EEPROM, and the RAIN UHF tag version provides a 512-bit user memory plus 96-bit EPC.

All HID Bin Tag transponders perform superbly when mounted on plastic containers. For metal bins, HID offers specialized RFID Tags designed for consistent performance, where metallic composition might otherwise negatively affect the reading due to signal reflection. (For tracking large, industrial metal containers with RAIN UHF, consider the HID InLine Tag™ family of RFID tags.)

HID Eco-ID™ Bin Tag in LF (HDX red and Unique black) features a unique Arch design that reduces material usage and weight by 20%, lowering transportation emissions. Made from eco-friendly polypropylene, it cuts carbon emissions by more than half. The tag is fully recyclable with waste bins and offers enhanced durability through increased mechanical resistance and waterproofness.

HID Bin Tag transponders perform exceptionally well, withstand abuse and help waste management organizations achieve optimal data integrity easily and efficiently.

KEY BENEFITS:

- Easily integrated – standard sizing for easy installation or retrofit
- Tamper resistant – custom spanner screw drive to deter fraudulent removal
- Broad compatibility – a choice of frequencies and memory capacities address common global installations and protocols
- Reliable, consistent performance – no line-of-sight required, supports all major RFID frequencies and standards
- Eco-friendly - materials minimize environmental impact, reduce pollution, and improve public health by being renewable, biodegradable, recyclable, and free from harmful chemicals.

TECHNOLOGY HIGHLIGHTS:

- DIN 30745 tag dimensions fit most plastic bins
- Available configurations for optimized performance on metal bins
- Highly resistant to physical impact, chemical exposure and temperature variation
- Low-, high- and ultrahigh-frequency (LF, HF, RAIN UHF)
- Available in Unique, HDX, FDX-B, HF or EPC Global Class1 Gen2 compliant formats to suit all common waste management implementations
- Warranty: 7 years

For further information, contact tagsales@hidglobal.com

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HID can create a custom tag solution to fit your application requirements for chip type, dimensions, programming and materials.

APPLICATION AREAS:

Waste Management

- Residential, commercial and industrial bin tracking
- Recycling compliance monitoring
- Improved invoicing and service accuracy
- Route optimization systems
- Institution of incentive-based waste and recycling programs

	BIN TAG				
	Unique	**FDX-B BDE**	**HDX BDE**	**HF**	**UHF**
					
Base Model Number	701133-106 601134-106 (ECO-ID™)	784104-102Y	6B7104-102R 6B7134-106R (ECO-ID™)	729103-102B	6M6103-002G
	ELECTRONIC				
Operating Frequency	125 kHz	134.2 kHz		13.56 MHz	860-960 MHz (Global)
Chip Type	Unique	FDX-B BDE	HDX BDE	ICODE SLIX	M730
Memory	64 bit, read only	128 bit, read only		1024 bit EEPROM	128 bit EPC
Anti-Collision				Yes	
Reading Distance	Dependent upon reader, environment and application				Up to 39.3 ft (12 m)
	PHYSICAL				
Dimensions	1.18 x 0.59 in, thread 1.12 in (Ø 30 x 15 mm, thread Ø 28.5 mm)				
Mounting Method	Screw-in				
Fixation Hole Size	Ø 0.22 in (5.5 mm)				
Affixes To	Plastic				
Housing Material	PA6, potting PUR / ECO-ID™ : Special compounded - Eco-Friendly polypropylene overmolded				
Color	Black	Yellow	Red	Blue	Green
Weight	0.21 to 0.39 oz (6 to 11g)				
	CHEMICAL AND MECHANICAL RESISTANCE				
Water	IP67, 68° F (20° C), 3.3 ft (1 m x 1 h ECO-ID™ : IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h	IP67, 68° F (20° C), 3.3 ft (1 m) x 1 h	IP67, 68° F (20° C), 3.3 ft (1 m) x 1 h ECO-ID™ : IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h	IP67, 68° F (20° C), 3.3 ft (1 m) x 1 h	
Withstands Exposure to	Fuel B, mineral oil, petroleum, salt mist, vegetable oil				
Environmental Test Conditions	68° F (20° C), 100 h				
Axial / Radial Force	1000 N, 10 sec				
Vibration	IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h]				
Shock	IEC 60068-2-27:2008 [40 g, 18 ms, 6 axis, 2000 times]				
	THERMAL				
Storage	-40° to +185° F (-40° to +85° C)				
Operating	-40° to +185° F (-40° to +85° C)		-13 ° to + 185 °F (-25 ° to + 85 °C)	-40° to +185° F (-40° to +85° C)	
Shock/Fatigue	-40° to +194° F (-40° to +90° C), 100 x 10 min with 30 sec transition ECO-ID™ : -40° to +185° F (-40° to +85° C), 100 x 5 min with 30 sec transition				
	OTHER				
Standards	Unique: DIN 30745; FDX-B BDE: EN 14803, DIN 30745; HDX: EN 14803, DIN 30745; HF: ISO 15693, ISO 18000-3, DIN 30745; RAIN UHF: UHF EPC C1G2, ISO 18000-6C, DIN 30745				
Box Size	800 pcs				
Options	Custom embossed logo				
Warranty	7 Years				

HID

hidglobal.com

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