



Bin Tag UHF



UHF TAG FOR WASTE MANAGEMENT FITTING INTO STANDARD PLASTIC BINS

- Designed to fit into the tag nest of most plastic bins
- Significantly higher read-range and memory capacity than LF/HF tags
- May be pre-installed or used for retrofitting existing bins
- Compliant to UHF standards EPC Class 1 Gen 2 and ISO 18000-6C
- No line of sight necessary to operate

HID Global's Bin Tag UHF features a passive contactless transponder designed to communicate with a reader via radio frequency identification (RFID) technology.

The Bin Tag UHF is specifically designed for Waste Management applications of plastic bins, with a form factor being compliant to DIN30745. The tag is highly water, chemical and shock resistant and fits into the standard tag nest of most plastic bins. The tag is easy to insert and hard to remove without special tools.

Compared to other Bin Tags operate usually in the low frequency area, the UHF bin tag offers a much higher read-range (up to 6.5ft or 2m) and large memory capacity to read/write customer specific data directly on the tag.

Featuring 512 bits user memory and 96 bits EPC number, the tag offers anti-collision functionality, fast data rate communication and a large read range compared to its size. Additionally the Bin Tag UHF is compliant with EPC global-certified UHF Gen 2 readers and modules.

KEY TECHNOLOGY HIGHLIGHTS:

- UHF EPC Class 1 Gen2 and ISO 18000-6C
- 96 bit EPC number
- 512 bit read/write user memory
- Optimized for standard plastic bins
- Water and shock proof
- Highly chemical resistant
- Up to 6.5 ft / 2 meter read range at a very small form factor

TYPICAL APPLICATION AREAS:

- Waste management: commercial and industrial bins tagging
- Plastic bins with standard bin-tag nest
- For tagging metal containers, see the HID InLine Ultra Plus tags


SPECIFICATIONS

Bin Tag UHF	
Base Model Number	698103
Dimensions	Ø30x15 mm ± 0.3 mm
Fixation Hole	Ø5.5 mm
Weight	9.6 g
Material	Housing: PA6, Potting PUR
Color	Black
Chip Type	Higgs 3 - 96 bit EPC, 512 bit user memory
Operating Frequency	915 MHz (US)
Standards	UHF EPC Class 1 Gen 2, ISO 18000-6C, DIN 30745 (form factor)
Chemical / Mechanical Resistance to	
Water IP67	68° F / 20° C (1m, 1h)
Salt Mist	68° F / 20° C (100h)
Petroleum	68° F / 20° C (100h)
Mineral and vegetable oils	68° F / 20° C (100h)
Vibration	IEC 68.2.6 (10g, 10...2000Hz, 3 axis, 2.5h)
Shock	IEC 68.2.29 (40g, 18ms, 6 axis, 2000 times)
Axial/Radial Force	1000 N - 10 sec.
Storage Temperature	-40°-158° F / -40° to +70° C (1x1000h)
Operating Temperature	-40°-158° F / -40° to +70° C
Shock / Fatigue Temperature	-40°-194° F / -40° to +90° C (100x5min with 30 sec. transition)
Reading Distance	Up to 6.5ft (2m) in plastic bins (2W reader ERP, free space)