

PRODUCT COMPARISON CHART

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) | IN Tag 200/300/500 | IN Tag 500 UHF | IN Tag 500 OM |
|--|--|---------------------|----------------|-------------------------|--|---|--|---|---|-----------------------------|
| 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 | Highly robust screw-on tag with anti collision support and on-metal option up to 140° | |
| 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 | 865 MHz (EU) / 915 MHz (US) |
| Size | Ø30x15 mm | | | | Ø9x19mm (Cap Ø15x19 mm) | | 97x27x15 mm (Ultra) 105x35x15 mm (Ultra weld) | 97x27x9 mm (Ultra) 105x35x9 mm (Ultra weld) | 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 | None (IN Tag 200) or Ø5.2mm | | Ø5.3 mm |
| 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 | I-Code SLiX | Higgs 3 | Unique | FDX-b BDE | Monza 4QT | Hitag S, Unique | I-Code SLiX |
| 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 | 64 bit RO, 256 bit RW, 2048 bit RW | 1024 bit RW |
| Anti-collision | N/A | N/A | Yes | | N/A | | Yes | Hitag S - Yes | 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) | N/A | Up to 9.8 ft / 3 m | |
| Typical Use Environment | Plastic | | | | Plastic | Metal, plastic, wood, glass | | Plastic, wood, glass | Plastic, wood | Metal, plastic |
| Mounting Method | Screw-in | | | N/A | Plug-in | Screw-on or weld | | Embed, glue or screw-on | 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 +80°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 +80°C | | -40°C to +85°C | | -40 °C to +90 °C |
| Peak Temperature ¹ | N/A | N/A | N/A | N/A | N/A | Shock -40° to +85° | | +140 °C (100h) | | +140 °C (100h) |
| Housing Material | Housing PA6, potting - PUR | | | | PA6 | PC-ABS | | PPA | PPA | |
| Chemical and Environmental Resistances ¹ | Water, IP67 (1m, 1h), 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 | Water, IP69K (100 bar at 80°C, 30 sek., 30 sek., 16 l/min), Salt mist, Fuel B, petroleum, mineral and vegetable oils, food compatible | |
| 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 62262-1K09 | | Vibration IEC 68.2.6, shock IEC 68.2.29 | Vibration IEC 68.2.6, shock IEC 68.2.29 | |
| Axial / Radial Force ¹ | 1000N (10 sec) | | | | N/A | 1000N | | 800N / 500N (10 sec) | 800N / 500N (10 sec) | |
| Warranty ³ | 7 years | | | | 7 years | 7 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 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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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), OS (264 bit RW), Hitag S (32 bit RO, 256 bit RW, 2048 bit RW), I-Code SLiX (1024 bit EEPROM, incl. 896 bit user memory)

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%

PRODUCT COMPARISON CHART

Asset Tracking & Logistics



| Product Name | Brick Tag Ceramic | InLine Ultra (Weld) | InLine Ultra Slim (Weld) | SlimFlex Tag Standard | | Seal Tag | | World Tag | | Epoxy Tag | | |
|---|---|---|--|--|---|---|------------------------------------|--|------------------|--|------------------------|---|
| Application | Miniature UHF tags for tracking small metal assets | Robust high performance, general purpose UHF transponder for metal and non metal outdoor use | | Flexible, ruggedized tag for industrial / outdoor environments | | SlimFlex tag with built-in tamper evident, easy to fix cable tie | | Best general use price/performance ratio for indoor asset identification | | Printable, engravable tag with high mechanical and thermal stability | | |
| Frequency | 865 MHz (EU) / 915 MHz (US) | 860 - 960 MHz (Worldwide) | | 13.56 Mhz | 860-960 MHz (Worldwide) | 13.56 Mhz | 860-960 MHz (Worldwide) | 125 kHz | | 125 kHz | 13.56 Mhz | 860-960 MHz (Worldwide) |
| Size | 5x5x3, 10x5x3, 23x9x3 mm | 97x27x15 mm (Ultra) 105x35x15 mm (Ultra weld) | 97x27x9 mm (Ultra) 105x35x9 mm (Ultra weld) | 83x25x3 mm | 77x25x3 mm (screw) 83x25x3 mm (slot) 87x25x3 mm (cable tie) | 85x25x3 mm | | Ø20 or 30x2.1 mm | Ø50x2.1 mm | 45x30x1.6 mm | | 83x25x1 mm |
| Screw Hole | | Ø5.2 mm or optional steel ring to weld | | 2x6 mm (slot) | Ø3 mm (screw) 2x6 mm (slot) Ø7 mm (cable tie) | Cable Tie: 380x6.4x2.15 mm, black | | None or Ø3.2 mm | Ø4.2 mm | Ø5 mm | | 3 mm |
| Standards / Protocol Support | ISO 18000-6C, EPC C1G2, | ISO 18000-6C, EPC C1G2, ISO 17364, DIN 40050-9 | | ISO 15693, ISO 18000-3 | EPC C1G2, ISO 18000-6C | ISO 15693, ISO 18000-3 | EPC C1G2, ISO 18000-6C | N/A | | N/A | ISO 15693, ISO 18000-3 | EPC C1G2, ISO 18000-6C |
| Chip Type | Higgs 3 | Monza 4QT | | I-code SLix | Higgs 3 | I-code SLix | Higgs 3 | Hitag S, QS, Titan, Unique | | Hitag S, Unique | I-code SLix | Higgs 3 |
| Memory¹ | 64 bit TID, 96 bit EPC, 512 bit RW | 96 bit TID, 128 bit EPC, 512 bit RW | | 1024 bit RW | 64 bit TID, 96 bit EPC, 512 bit RW | 1024 bit RW | 64 bit TID, 96 bit EPC, 512 bit RW | 64 bit RO, 256 bit RW, 264 bit RW, 1024 bit RW, 2048 bit RW | | 64 bit RO, 256 bit RW | 1024 bit RW | 64 bit TID, 96 bit EPC, 512 bit RW |
| Anti-collision | Yes | Yes | | Yes | | | Hitag S - Yes | | Hitag S - Yes | Yes | | |
| Reading Distance² | up to 26.2 ft (8 m) | up to 26.2 ft (8 m) | up to 16.4 ft (5 m) | | Up to 26.3 ft (8 m) | | Up to 26.3 ft (8 m) | N/A | | N/A | | up to 26.3 ft (8 m) |
| Typical Use Environment | Metal | Metal, Plastic, Wood, Glass | | Plastic, dry wood | | Industrial bags, containers | | Plastic, glass | | Asset tracking or access control & time attendance | | Asset Tracking |
| Mounting Method | Glue | Screw-on or Weld | | Glue or screw-on | | Integrated cable tie | | Glue or screw-on | Screw-on | Screw-on, keyring, chain | | screw-on, glue or encapsulate |
| Operating Temperature³ | -40°C to +85°C | -40°C to +80°C | | -40°C to +70°C | | | -25 °C to +70 °C | | -25 °C to +85 °C | -40°C to +85°C | | -40°C to +85°C |
| Storage Temperature³ | -40°C to +85°C | -40°C to +80°C | | -40°C to +70°C | | | -40 °C to +90 °C | | -40 °C to +95 °C | -40°C to +85°C | | -40°C to +85°C |
| Peak Temperature³ | | Shock -40° to +85° | | Shock -40°C to +70°C | | | +130 °C (100h) | +100 °C (100h) | +140 °C (1x24h) | +160 °C (1x10h) | | +160 °C (1x10h) |
| Housing Material | Ceramic | PC-ABS | | TPE | | TPE / Nylon 6.6 | | PC | | Epoxy | | |
| Chemical and Environmental Resistances⁴ | Water, IP68 (2m, 24h), Salt mist, Petroleum, Mineral and vegetable oils | Water, IP69K (100 bar at 80°C, 30 sek., 16 l/min), salt mist, petroleum, oils, humidity 70%/80% | | Water, IP68 (2m, 24h), Salt mist, Petroleum, Mineral and vegetable oils, UV, Food compatible | | N/A | | N/A | | Water, IP67 (1m, 1h), mineral oil, ethanol, petrol, fuel | | Water, IP69K (100 bar at 80°C, 30 sek., 16 l/min), Salt Mist, Petroleum, Oils |
| Mechanical Resistances⁴ | 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-IK06 | | Vibration IEC 68.2.6, Shock IEC 68.2.29, Impact IEC 62262-IK06, Cable tie pull resistance >600N | | 100 drops 1.8m | | Vibration IEC 68.2.6, Shock IEC 68.2.29, 100 drops 1.8 m, IEC 62262-IK07 | | |
| Axial / Radial Force⁴ | | 1000N | | 1000N | | | 500N / 300N (10 sec) | 500N / 100N (10 sec) | N/A | | 1000N (10 sec) | |
| Warranty⁴ | 2 Years | 7 years | | 2 years | | | 2 years | | 2 years | | | |

1 Unique (64 bit RO), QS (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), Titan (1024 bit RW)
 2 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.

3 For further specification details, please see datasheets of the respective products.
 4 Warranty: Storage condition must not exceed specification for temperature, chemical, mechanical, electrical condition, storage from -25°C to +50°C, humidity 20% to 80%

Finding what you need

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