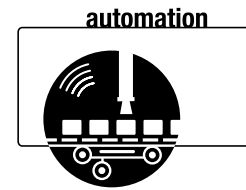


PRODUCT COMPARISON CHART

# Automation & Manufacturing



| Product Name   | IN Tag 200/300/500 (OM)   |                         |  | Logi Tag 121 OM  | Poly Tag 340   |                             |                         | Volcano Tag 231                         | Iron Tag 176  | Iron Tag 206  | Iron Tag 206F  | High-Temp. Label                                       |   |
|--|---|-------------------------|--|--|--|-----------------------------|-------------------------|---|---|---|--|--|---|
| <b>Application</b>   | Ruggedized for severe industrial environments, food compatible  |                         |  | Micro-sized and thin, high performance HF disc tag with on-metal option                          | Durable tag for outdoor use requiring extreme impact resistance  |                             |                         | Tag to withstand high temperatures      | On-metal, High Temperature UHF Tag  |   |  | High-temperature UHF label for manufacturing processes |   |
| <b>Frequency</b>   | 125 kHz   | 13.56 MHz               |  | 865 MHz (EU) 915 MHz (US)  | 13.56 MHz  | 125 kHz                     | 13.56 MHz               | 125 kHz                                 | 865 MHz (EU) / 915 MHz (US)   |   |  | 860-960 MHz (Worldwide)                                |   |
| <b>Size</b>  | Ø20 or 30x2.5 mm, Ø50x3 mm  |                         | Ø20x or 30x 2.8 mm Ø50x3.3 mm            | Ø50x or 55x3 mm  | Ø12.4x2.15 mm  | Ø34x8 mm                    |                         |   | Ø26x4 mm  | 53x23x7 mm  | 34x31x6 mm   | 31x31x6.9 mm   | 80x50x0.5 mm  |
| <b>Screw Hole</b>  | None (IN Tag 200) or Ø5.2mm   |                         |  | N/A  | Ø5.4 mm  |                             |                         | Ø4.5 mm                                 | N/A   | Ø3.3 mm   |  | Ø5 mm  |   |
| <b>Standards / Protocol Support</b> <sup>1</sup>           | ISO 15693, ISO 18000-3  |                         | ISO 15693                                | EPC C1G2, ISO 18000-6C, ATEX   | ISO 15693, ISO 18000-3, ATEX   | ISO 15693, ISO 18000-3      |                         |   | N/A   | EPC C1G2, ISO 18000-6C, DIN 40050-9, ISO 4892-2   |  |  | EPC C1G2, ISO 18000-6C  |
| <b>Chip Type</b>   | HITAG S, Unique   | ICODE SLIX (2)          | F-Mem                                    | G2IM   | Vigo   | Unique                      | HITAG S                 | ICODE SLIX (2), NTAG 216                | Unique, Q5  | Higgs 3   | Monza X  |  | Monza 4QT   |
| <b>Memory</b> <sup>2</sup>                                 | 64 bit RO, 256 bit RW, 2048 bit RW  | 1024 bit RW 2560 bit RW | 2 KByte RW, 8 KByte RW (IN Tag 300 only) | 640 bit EEPROM (96 bit TID, 256 bit EPC)   | 1024 or 2048 bit RW  | 64 bit RO                   | 256 bit RW, 2048 bit RW | 1024 bit RW, 2560 bit RW, 7104 bit RW   | 64 bit RO, 264 bit RW   | 64 bit TID, 96 bit EPC, 512 bit RW  | 96 bit TID, 128 bit EPC, 2176 or 8192 bit RW   |  | 96 bit TID, 128 bit EPC, 512 bit RW   |
| <b>Anti-collision</b>                                      | HITAG S - Yes   |                         | Yes                                      |  | Yes  | Yes                         |                         |   | No  | Yes   |  | Yes  |   |
| <b>Reading Distance</b> <sup>*</sup>                       |   |                         |  | up to 9.8 ft (3 m)   | N/A  | N/A                         |                         |   | N/A   | Up to 13.1 ft (4 m)   | up to 8.2 ft (2.5 m)   | up to 6.6 ft (2 m)                                     | up to 26.3 ft (8 m)   |
| <b>Typical Use Environment</b>                             | Plastic, wood, glass  |                         | Metal, plastic, wood, glass              |  | Metal, plastic   | Plastic, wood, glass, metal |                         |   | Any to withstand equal temperatures   | Metal   |  |  | Manufacturing   |
| <b>Mounting Method</b>                                     | Embed, glue or screw-on   |                         |  | Embed, glue  | Screw-on   |                             |                         | Screw-on                                | Glue or sticker   | Screw, clamp, glue or sticker   |  | Screw, rivet   |   |
| <b>Operating Temperature</b> <sup>*</sup>                  | -25°C to +85°C  | -40°C to +85°C          |  | -20°C to +85°C   | -40°C to +85°C   | -40 °C to +85 °C            | -25 °C to +85°C         | -40°C to +85°C                          | -25 °C to +85 °C  | -40°C to +85°C  |  |  | -40°C to +85°C  |
| <b>Storage Temperature</b> <sup>*</sup>                    | -40 °C to +90 °C  |                         |  | -40°C to +90°C   | -40 °C to +90 °C   | -40 °C to +90°C             |                         |   | -25 °C to +140 °C   | -40°C to +90°C  |  |  | -40°C to +85°C  |
| <b>Peak Temperature</b> <sup>*</sup>                       | +140 °C (100h)  |                         |  | +90 °C (100h)  | +100 °C (100h)   | +130 °C (100h)              |                         |   | +160 °C (100h) +200 °C (10min)  | +180°C (400h)   | +180° C (600h), +200° C (24h), +220° C (10h)   | +100° C (1000 h)                                       | +140°C (400h), +180°C (100h), +230°C (20h)  |
| <b>Housing Material</b>                                    | PPA   |                         |  | PPS  | PA6  |                             |                         | PPA                                     | PPA   | PP5   |  | Aramid Polymer   |   |
| <b>Chemical and Environmental Resistances</b> <sup>*</sup> | 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, IP68 (1m, 24h), Salt mist, Fuel B, Petroleum, Mineral and vegetable oils, Food compatible | Water, IP67 (1m, 1h), water with salt, unleaded gasoline, petroleum, mineral and vegetable oils, humidity 90% HR @ 90 °C |                             |                         | Water, IP68 (1m, 24h)                   | Water, IP69K (100 bar at 80°C, 30 sek., 16 l/min), salt mist, fuel B, mineral and vegetable oils, petroleum, food compatible, flame (UL94HB) and UV resistant | Water, IP67 (1m, 1h), Salt mist, Fuel B, Mineral and vegetable oils, Petroleum, Flame (UL94V0) and UV resistant | IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h; IP69K (100 bar at 80°C, 30 sek., 16 l/min) |  | Water, IP68 (1m, 24h), Salt mist, Fuel B, Petroleum, Mineral and vegetable oils, Flame resistant UL 94V-0 |
| <b>Mechanical Resistances</b> <sup>*</sup>                 | Vibration IEC 68.2.6, shock IEC 68.2.29   |                         |  | Vibration IEC 68.2.6, Shock IEC 68.2.29  | Vibration IEC 68.2.6, shock IEC 68.2.29  |                             |                         | Vibration IEC 68.2.6, shock IEC 68.2.29 | Vibration IEC 68.2.6, Shock IEC 68.2.29, Impact IEC 62262-IK07  | Vibration IEC 68.2.6, Shock IEC 68.2.29, Bending: 100x 300mm radius, 10x 100 mm radius - lengthwise             |  |  |   |
| <b>Axial / Radial Force</b> <sup>*</sup>                   | 800N / 500N (10 sec)  |                         |  | 800N / 500N (10 sec)   | 800N / 500N (10 sec)   |                             |                         | N/A                                     | 800N / 500N (10 sec)  |   |  | 50N  |   |
| <b>Warranty</b> <sup>4</sup>                               | 2 years   |                         |  | 2 years  | 2 years  |                             |                         | 2 years                                 | 2 years   |   |  |  |   |

## Finding what you need

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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\* 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.  
\*1) ISO 11784, ISO 11785 for Hitag S and EM4305 chip only  
\*2) Unique (64 bit RO), Q5 (264 bit RW), Hitag S (32 bit RO, 256 bit RW, 2048 bit RW), Titan (1024 bit RW), EM4305 (512 bit RW) ICODE SLIX (1024 bit EEPROM, incl. 896 bit user memory), ICODE SLIX2 (2560 bit user memory), NTAG 216 (888 Byte RW)  
\*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%