

# EXO Pro Tag

Highly robust, all-purpose RAIN UHF tags mount to any surface material deliver long read ranges



HID Global's EXO Pro transponders are the most advanced general-purpose RAIN UHF tags available. Choose from options that mount on metal or any material while enabling read ranges of up to 56.4 ft (17.2m).

EXO Pro devices improve data collection speed and accuracy for logistics applications, while making tracking more cost-effective. Members of the EXO family are highly rugged to withstand impact, high-pressure washing IP68, IP69K or chemical disinfection.

RAIN technology enables anti-collision functionality, fast data-rate communication and password data protection for precise, reliable reading and updating. All EXO Pro transponders are compliant with EPC global-certified UHF Class 1 Gen 2 readers and modules, including broadband capability for international operations.

The tough and versatile EXO Pro Tag transponders are available for mounting on metal, plastic or wood using standard screws, rivets, industrial adhesives or welding. The tags are lightweight, waterproof and resist high-pressure/high temperature washing conditions. The special material and over molded construction of some EXO Pro tags provides even greater impact protection, extra resilience against aggressive chemicals like Caustic Soda.

EXO Pro RFID tags include HID Global's patented 3D antenna, enabling omnidirectional read range performance independent of mounting material.

The EXO Pro InLine Combo and 750 Combo version include an ICODE SLIX2 chip for industrial HF or NFC interaction in addition to RAIN logistics. Slim versions of the tags enable optimal performance for space-restricted applications, and are configured for attachment via screw or weld.

In short, EXO Pro tags provide the durability of an encased RFID tag in a small footprint for harsh environments with some of the options in the range being the most rugged tags on the market, even withstanding a "sledgehammer test".



## KEY BENEFITS:

- **Extreme durability** – resistant to outdoor elements as well as blunt and sharp impact
- **Multiple mounting options** – glue, screw, rivet or weld
- **Enhanced reliability** – read-write on any material, up to 56.4 ft (17.2m)
- **Broadband frequency** – for worldwide use

## TECHNOLOGY HIGHLIGHTS:

- Worldwide operating frequencies from 860 to 960 MHz + optional NFC
- Fully interoperable; standards compliant
- Reliable performance on both metal and non-metal surfaces
- Waterproof under high pressure / high temperature conditions; chemical and impact resistant
- Mounting options include nails, screws, rivets, welding and glues
- Large memory of up to 512-bit user memory and 128-bit EPC; 2560 bit HF/NFC

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



## APPLICATION AREAS

Asset tracking and logistics

- Postal and road toll management
- Truck, wagon and train tracking
- Supply chain management:
- Pallet and goods tracking
- Furniture, boxes and tools

Returnable transport items

- Shipping container tracking
- Metal keg and gas cylinder identification

Waste management

- Commercial and industrial bin identification

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|                                                    | EXO Pro                                                                                                                                                                                                                |                                                                                                                                                                               |                                                                                                                       |                                                                                    |                                                                                     |                                                                                     |                                                                                                                       |                                                                                                                                   |  |  |  |  |  |  |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
|                                                    | 400 HT                                                                                                                                                                                                                 | Midrange                                                                                                                                                                      | InLine                                                                                                                | 600                                                                                | 750                                                                                 | 800                                                                                 | InLine Combo                                                                                                          | 750 Combo                                                                                                                         |  |  |  |  |  |  |
|                                                    |                                                                                                                                       |                                                                                              |                                      |  |  |  |                                    |                                                |  |  |  |  |  |  |
| Base Model Number                                  | CP16451 (EU)<br>CP16453 (US)                                                                                                                                                                                           | AST1-174-3310 (EU)<br>AST1-174-3300 (US)                                                                                                                                      | 6M6980-402<br>6M6981-402 (pro weld)                                                                                   | CP08785<br>CP16007 (M730)                                                          | CP08726<br>CP16100 (M730)                                                           | CP08725<br>CP16130 (M730)                                                           | 6PC980-502                                                                                                            | CP20294                                                                                                                           |  |  |  |  |  |  |
|                                                    | ELECTRONIC                                                                                                                                                                                                             |                                                                                                                                                                               |                                                                                                                       |                                                                                    |                                                                                     |                                                                                     |                                                                                                                       |                                                                                                                                   |  |  |  |  |  |  |
| Operating Frequency                                | (EU) - 865-868 MHz (ETSI)<br>(US) - 902-928 MHz (FCC)                                                                                                                                                                  |                                                                                                                                                                               | 865-928 MHz (Global)                                                                                                  |                                                                                    |                                                                                     |                                                                                     | 865-928 MHz (Global) / NFC                                                                                            |                                                                                                                                   |  |  |  |  |  |  |
| Chip Type                                          | Monza R6-P                                                                                                                                                                                                             | M750                                                                                                                                                                          | M730                                                                                                                  | Monza 4QT<br>M730                                                                  |                                                                                     |                                                                                     | M730 +<br>ICODE SLIX2                                                                                                 |                                                                                                                                   |  |  |  |  |  |  |
| Memory                                             | 128/96 bit EPC<br>32/64 bit UM                                                                                                                                                                                         | 96 bit EPC<br>32 bits UM                                                                                                                                                      | 128 bit EPC   96 bit TID   512 bit UM (M4QT)<br>128 Bit EPC (M730)                                                    |                                                                                    |                                                                                     |                                                                                     | 128 bit EPC   96 bit TID + 2560 bit ICODE SLIX2                                                                       |                                                                                                                                   |  |  |  |  |  |  |
| Anti-Collision                                     | Yes                                                                                                                                                                                                                    |                                                                                                                                                                               |                                                                                                                       |                                                                                    |                                                                                     |                                                                                     |                                                                                                                       |                                                                                                                                   |  |  |  |  |  |  |
| Reading Distance<br>(2W reader ERP,<br>free space) | Up to 13.1 ft (4 m)                                                                                                                                                                                                    | Up to 32.8 ft (10 m)                                                                                                                                                          |                                                                                                                       | Up to 42.65 ft (13 m)                                                              | Up to 47.24 ft<br>(14.4 m)                                                          | Up to 49.21 ft (15 m)                                                               | Up to 32.8 ft (10 m)                                                                                                  | Up to 56.4 ft (17.2 m)                                                                                                            |  |  |  |  |  |  |
|                                                    | PHYSICAL                                                                                                                                                                                                               |                                                                                                                                                                               |                                                                                                                       |                                                                                    |                                                                                     |                                                                                     |                                                                                                                       |                                                                                                                                   |  |  |  |  |  |  |
| Dimensions                                         | 1.45 x 1.6 x 0.3 in<br>(37.0 x 14.0 x<br>7.5 mm)                                                                                                                                                                       | 2.5 x 0.69 x 0.25 in<br>(63.5 x 17.5 x 6.4 mm)                                                                                                                                | 3.8 x 1.1 x 0.6 in<br>(97 x 27 x 15 mm);<br>Weld: 4.1 x 1.4 x 0.6<br>in (105 x 35 x 15 mm)                            | 3.15 x 0.59 x 0.48 in<br>(80 x 15 x 12.5 mm)                                       | 2.01 x 1.9 x 0.50 in<br>(51 x 48 x 12.6<br>mm)                                      | 4.33 x 0.98 x 0.51 in<br>(110 x 25 x 12.85 mm)                                      | 3.8 x 1.1 x 0.6 in<br>(97 x 27 x 15 mm)                                                                               | 2.01 x 1.9 x 0.50 in<br>(51 x 48 x 12.6 mm)                                                                                       |  |  |  |  |  |  |
| Mounting Method                                    | Screw, weld (special models to glue on metal available on request)                                                                                                                                                     |                                                                                                                                                                               |                                                                                                                       |                                                                                    |                                                                                     |                                                                                     |                                                                                                                       |                                                                                                                                   |  |  |  |  |  |  |
| Screw Mounting<br>Hole                             | Ø 0.12 in (3 mm)                                                                                                                                                                                                       | Ø 0.075 in (2 mm)                                                                                                                                                             | Ø 0.2 in (5.2 mm)                                                                                                     | Ø 0.2 in (4.9 mm)                                                                  | Ø 0.2 in (5.5 mm)                                                                   | Ø 0.2 in (4.9 mm)                                                                   | Ø 0.2 in (5.2 mm)                                                                                                     | Ø 0.22 in (5.5 mm)                                                                                                                |  |  |  |  |  |  |
| Affixes To                                         | All surfaces, including metal, plastic, wood                                                                                                                                                                           |                                                                                                                                                                               |                                                                                                                       |                                                                                    |                                                                                     |                                                                                     |                                                                                                                       |                                                                                                                                   |  |  |  |  |  |  |
| Housing Material                                   | Thermoplastic                                                                                                                                                                                                          | Ryton PPS                                                                                                                                                                     | High-impact plastic,<br>Weld : stainless steel ring                                                                   | ABS Rigid Plastic                                                                  |                                                                                     |                                                                                     | High-impact plastic                                                                                                   | ABS Rigid Plastic                                                                                                                 |  |  |  |  |  |  |
| Color                                              | Black                                                                                                                                                                                                                  |                                                                                                                                                                               | Gray                                                                                                                  |                                                                                    |                                                                                     |                                                                                     |                                                                                                                       |                                                                                                                                   |  |  |  |  |  |  |
| Weight                                             | 0.2 oz (5.7 g)                                                                                                                                                                                                         | 0.35 oz (10 g)                                                                                                                                                                | 0.8 oz (23 g)<br>Weld: 0.9 oz (26 g)                                                                                  | 0.4 oz (12.5 g)                                                                    | 0.9 oz (25.6 g)                                                                     | 0.9 oz (26 g)                                                                       | 0.8 oz (23 g)                                                                                                         | 0.9 oz (25.3 g)                                                                                                                   |  |  |  |  |  |  |
|                                                    | CHEMICAL AND MECHANICAL                                                                                                                                                                                                |                                                                                                                                                                               |                                                                                                                       |                                                                                    |                                                                                     |                                                                                     |                                                                                                                       |                                                                                                                                   |  |  |  |  |  |  |
| Water                                              | IP68, IP69K, 68° F<br>(20° C),<br>1 m x 24 h                                                                                                                                                                           | IP69K (100 bar at<br>80°C, 30 sek., 16<br>l/min)                                                                                                                              | IP68, IP69K, 68° F (20° C), 1 m x 24 h                                                                                |                                                                                    |                                                                                     |                                                                                     |                                                                                                                       |                                                                                                                                   |  |  |  |  |  |  |
| Withstands<br>Exposure To                          | 5% caustic soda,<br>10% salt water,<br>vegetable oil, Motor<br>oil, 68° F (20° C),<br>168hr                                                                                                                            | Dilute mineral<br>acids, dilute alkali<br>solutions (<20%),<br>alcohols, petroleum,<br>salt mist, vegetable<br>oil, hydraulic fluid<br>and most industrial<br>cleaning agents | Mineral oil, petroleum,<br>salt mist, vegetable oil,<br>up to 80% humidity at<br>158° F (70° C); Caustic<br>Soda (5%) | 5% caustic soda, 10% salt water, vegetable oil, Motor oil,<br>68° F (20° C), 168hr |                                                                                     |                                                                                     | Mineral oil, petroleum,<br>salt mist, vegetable oil,<br>up to 80% humidity at<br>158° F (70° C); Caustic<br>Soda (5%) | 168 hr: 5% Caustic Soda,<br>10% salt water, vegetable<br>oil up to 80% humidity at<br>158° F (70° C), motor oil<br>24 hr: Acetone |  |  |  |  |  |  |
| Vibration & Shock                                  | MIL STD 810-G                                                                                                                                                                                                          | IEC 68.2.6 / IEC 60068-2-27:2008                                                                                                                                              |                                                                                                                       | MIL STD 810-G                                                                      |                                                                                     |                                                                                     | IEC 68.2.6 / IEC 60068-2-27:2008                                                                                      | MIL STD 810-G                                                                                                                     |  |  |  |  |  |  |
| Impact                                             | 6PC980-502                                                                                                                                                                                                             | 1.75kg Steel, 0.76m                                                                                                                                                           | IEC 62262-IK08                                                                                                        | 10kg steel, 1m                                                                     | 4Kg steel, 1m                                                                       | 10kg steel, 1m                                                                      | IEC 62262-IK08                                                                                                        | IEC 62262-IK11                                                                                                                    |  |  |  |  |  |  |
| Axial/Radial<br>Force                              |                                                                                                                                                                                                                        |                                                                                                                                                                               | 1000 N, 10 sec                                                                                                        |                                                                                    |                                                                                     |                                                                                     |                                                                                                                       |                                                                                                                                   |  |  |  |  |  |  |
| THERMAL THERMAL                                    |                                                                                                                                                                                                                        |                                                                                                                                                                               |                                                                                                                       |                                                                                    |                                                                                     |                                                                                     |                                                                                                                       |                                                                                                                                   |  |  |  |  |  |  |
| Storage                                            | -40° to +185° F (-40° to +85° C), 1x1000 h -40° to +185° F (-40° to +85° C), 1x1000 h                                                                                                                                  |                                                                                                                                                                               |                                                                                                                       |                                                                                    |                                                                                     |                                                                                     |                                                                                                                       |                                                                                                                                   |  |  |  |  |  |  |
| Operating<br>Temperature                           | -40° to +185° F (-40° to +85° C)                                                                                                                                                                                       |                                                                                                                                                                               |                                                                                                                       |                                                                                    |                                                                                     |                                                                                     |                                                                                                                       |                                                                                                                                   |  |  |  |  |  |  |
| Peak Temperature                                   | 437° F (225° C),<br>100 h                                                                                                                                                                                              | 392° F (200° C),<br>100 h                                                                                                                                                     |                                                                                                                       |                                                                                    |                                                                                     |                                                                                     |                                                                                                                       |                                                                                                                                   |  |  |  |  |  |  |
| Shock/Fatigue                                      | -40° to +185° F (-40° to +85° C), 100 x 5 min with 20 sec transition                                                                                                                                                   |                                                                                                                                                                               |                                                                                                                       |                                                                                    |                                                                                     |                                                                                     |                                                                                                                       |                                                                                                                                   |  |  |  |  |  |  |
| OTHER                                              |                                                                                                                                                                                                                        |                                                                                                                                                                               |                                                                                                                       |                                                                                    |                                                                                     |                                                                                     |                                                                                                                       |                                                                                                                                   |  |  |  |  |  |  |
| Standards                                          | UHF EPC Class 1 Gen 2, ISO 18000-6C, ISO 17364, DIN 40050-9                                                                                                                                                            |                                                                                                                                                                               |                                                                                                                       |                                                                                    |                                                                                     |                                                                                     | +NFC Tag Type 5                                                                                                       |                                                                                                                                   |  |  |  |  |  |  |
| Options                                            | Custom label or embossed logo, no logo or custom tag color. Laser engraving of custom logo, barcode or text on gray tag versions. By default, grey tags are supplied without logo or laser engraving. ATEX/IECEx, C1D1 |                                                                                                                                                                               |                                                                                                                       |                                                                                    |                                                                                     |                                                                                     |                                                                                                                       |                                                                                                                                   |  |  |  |  |  |  |
| Box Size                                           | 450 pcs.                                                                                                                                                                                                               | 150 pcs.                                                                                                                                                                      | 240 pcs.                                                                                                              | 720 pcs.                                                                           | 450 pcs.                                                                            | 432 pcs.                                                                            | 240 pcs.                                                                                                              | 450 pcs.                                                                                                                          |  |  |  |  |  |  |
| Warranty                                           | 2 Years                                                                                                                                                                                                                |                                                                                                                                                                               |                                                                                                                       |                                                                                    |                                                                                     |                                                                                     |                                                                                                                       |                                                                                                                                   |  |  |  |  |  |  |

