## IQ Range – Labels

<table>
<thead>
<tr>
<th>Product Name</th>
<th>IQ 150</th>
<th>IQ 350</th>
<th>IQ 400P</th>
<th>IQ 400P HT</th>
<th>IQ 600</th>
<th>IQ 800P</th>
<th>IQ 800P HT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Typical Applications</strong></td>
<td>IT, office, hospital asset tracking</td>
<td>IT and office asset tracking</td>
<td>Plastic facia’s on IT equipment</td>
<td>Logistics &amp; packaging, Pipe</td>
<td>Plastic &amp; non-metallic substrates</td>
<td>Plastic &amp; non-metallic substrates</td>
<td>Plastic &amp; non-metallic substrates</td>
</tr>
<tr>
<td></td>
<td>Weapons, pipes, road signs</td>
<td>Logistics with metallic packaging</td>
<td>Identification of IT &amp; office hardware</td>
<td>manufacturing &amp; recertification</td>
<td>IT, Office, &amp; Hospital tracking</td>
<td>Electronic</td>
<td>Manufacturing Automotive paint processes</td>
</tr>
<tr>
<td></td>
<td>Warehouse management</td>
<td>Intermodal logistics</td>
<td>IT, Office asset tracking</td>
<td>IT, Office, &amp; Hospital tracking</td>
<td>Manufacturing Automotive paint processes</td>
<td>Electronics</td>
<td></td>
</tr>
<tr>
<td><strong>Read Range (m)</strong></td>
<td>Up to 1.6</td>
<td>Up to 3.5</td>
<td>Up to 5.0</td>
<td>Up to 4.0</td>
<td>Up to 6.0</td>
<td>Up to 10.0</td>
<td>Up to 8.0</td>
</tr>
<tr>
<td><strong>Material Compatibility</strong></td>
<td>Optimized for all materials</td>
<td>Optimized for all materials</td>
<td>Plastic &amp; non-metallic substrates</td>
<td>Plastic &amp; non-metallic substrates</td>
<td>Optimized for all materials</td>
<td>Plastic &amp; non-metallic substrates</td>
<td>Plastic &amp; non-metallic substrates</td>
</tr>
<tr>
<td><strong>IC Type</strong></td>
<td>Impinj Monza R6-P</td>
<td>Impinj Monza R6-P</td>
<td>Alien Higgs 3</td>
<td>Alien Higgs 3</td>
<td>Impinj Monza R6-P</td>
<td>Alien Higgs 3</td>
<td>Alien Higgs 3</td>
</tr>
<tr>
<td><strong>Physical and Environmental Specifications</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Encasement / Material</strong></td>
<td>Synthetic label</td>
<td>Synthetic label</td>
<td>Synthetic label</td>
<td>Synthetic label</td>
<td>Synthetic label</td>
<td>Synthetic label</td>
<td>Synthetic label</td>
</tr>
<tr>
<td><strong>Size (mm)</strong></td>
<td>55.0 × 125 × 1.20</td>
<td>50.0 × 125 × 1.30</td>
<td>46.5 × 124 × 0.24</td>
<td>50.0 × 30.0 × 0.49</td>
<td>96.0 × 24.0 × 1.30</td>
<td>95.0 × 21.0 × 0.24</td>
<td>85.0 × 55.0 × 0.49</td>
</tr>
<tr>
<td><strong>Weight (g)</strong></td>
<td>0.44</td>
<td>0.50</td>
<td>0.15</td>
<td>0.51</td>
<td>1.50</td>
<td>0.50</td>
<td>1.50</td>
</tr>
<tr>
<td><strong>Operating Temperature (°C)</strong></td>
<td>-40 to +85</td>
<td>-40 to +85</td>
<td>-40 to +85</td>
<td>-40 to +85</td>
<td>-40 to +85</td>
<td>-40 to +85</td>
<td>-40 to +85</td>
</tr>
<tr>
<td><strong>Max Temperature Exposure (°C)</strong></td>
<td>-40 to +85</td>
<td>-40 to +85</td>
<td>-40 to +85</td>
<td>-40 to +230</td>
<td>-40 to +85</td>
<td>-40 to +85</td>
<td>-40 to +230</td>
</tr>
<tr>
<td><strong>Ingress Protection</strong></td>
<td>IP68</td>
<td>IP68</td>
<td>IP68</td>
<td>IP68</td>
<td>IP68</td>
<td>IP68</td>
<td>IP68</td>
</tr>
<tr>
<td><strong>Attachment</strong></td>
<td>Self Adhesive</td>
<td>Self Adhesive</td>
<td>Self Adhesive</td>
<td>Holes provided for mechanical attachment</td>
<td>Self Adhesive</td>
<td>Self Adhesive</td>
<td>Holes provided for mechanical attachment</td>
</tr>
</tbody>
</table>

†Order option codes are listed on the datasheets.

Values for Comparison only, please refer to Product Datasheets for full specifications.
**Fit Range** – Small for Integration, High Temperature

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Typical Applications</th>
<th>RF Specifications</th>
<th>Material Compatibility</th>
<th>IC Type</th>
<th>Physical and Environmental Specifications</th>
<th>Order Codes†</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fit 210HT</td>
<td>Hand Tool tracking</td>
<td>Frequency Range (MHz)</td>
<td>902–928 (US) 866–868 (EU)</td>
<td>Up to 2.0</td>
<td>Finish</td>
<td>Red PCB</td>
</tr>
<tr>
<td></td>
<td>Paint processes in automotive</td>
<td>Fixed reader Read Range (m)</td>
<td>902–928 (US) 866–868 (EU)</td>
<td>Up to 2.0</td>
<td>Weight (g)</td>
<td>1.00</td>
</tr>
<tr>
<td></td>
<td>IT assets at point of manufacture</td>
<td>Handheld reader Read Range (m)</td>
<td>902–928 (US) 866–868 (EU)</td>
<td>Up to 2.0</td>
<td>Operation Temperature (°C)¹</td>
<td>-20 to +85</td>
</tr>
<tr>
<td></td>
<td>Healthcare - sterilization</td>
<td>Max Temperature Exposure (°C)²</td>
<td>902–928 (US) 866–868 (EU)</td>
<td>Up to 2.0</td>
<td>Max Temperature Exposure (°C)²</td>
<td>-20 to +225</td>
</tr>
<tr>
<td></td>
<td>Small metal tools</td>
<td>Material Compatibility</td>
<td>Optimized for Metal</td>
<td>Alien Higgs 3</td>
<td>Ingress Protection</td>
<td>IP68</td>
</tr>
<tr>
<td></td>
<td>IT assets</td>
<td>IC Type</td>
<td>Alien Higgs 3</td>
<td></td>
<td>Shock and Vibration</td>
<td>MIL STD 810-G</td>
</tr>
<tr>
<td></td>
<td>Healthcare instruments</td>
<td>Material Compatibility</td>
<td>Optimized for Metal</td>
<td>Alien Higgs 3</td>
<td>Attachment</td>
<td>Film adhesive (standard) [For placement only in applications exceeding +85°C]</td>
</tr>
<tr>
<td></td>
<td>Tool tracking including metal hand tools</td>
<td>IC Type</td>
<td>Alien Higgs 3</td>
<td></td>
<td>Order Codes†</td>
<td>124 - EU, US</td>
</tr>
<tr>
<td></td>
<td>Metal IT assets</td>
<td>Material Compatibility</td>
<td>Optimized for Metal</td>
<td>Alien Higgs 3</td>
<td></td>
<td>124 - EU, US</td>
</tr>
<tr>
<td></td>
<td>Autoclaves &amp; high temperature sterilizations</td>
<td>Material Compatibility</td>
<td>Optimized for Metal</td>
<td>Alien Higgs 3</td>
<td></td>
<td>124 - EU, US</td>
</tr>
</tbody>
</table>

¹ Excludes adhesive options, consult adhesive datasheets for recommended temperature ratings. Maximum constant exposure for Fit 220 & 400 = 700 hours and 12 hours for Fit 210.

† Order option codes are listed on the datasheets.
## Flex Range – Flexible to Fit Many Applications

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Flex 600</th>
<th>Flex 1200</th>
</tr>
</thead>
</table>
| **Typical Applications** | Office Equipment  
Light outdoor use  
Returnable Transit Items  
Ideal for Portal setups | Office Equipment  
Light outdoor use  
Returnable Transit Items  
Ideal for Portal setups |
| **Frequency Range (MHz)** | 902–928 (US)  
866–868 (EU) | 902–928 (US)  
866–868 (EU) |
| **Fixed reader Read Range (m)** | Up to 6.0 on metal, 3.0m off metal | Up to 12.0m on metal, 8.0m off metal |
| **Handheld reader Read Range (m)** | Up to 3.0m on metal, 1.5m off metal | Up to 6.0m on metal, 4.0m off metal |
| **Material Compatibility** | Metal & non-metallic substrates | Optimized for Metal |
| **IC Type** | Monza R6-P | Monza R6-P |
| **Coverstock** | White synthetic label with transparent over laminate | White synthetic label with transparent over laminate |
| **Size (mm)** | 55.8 x 20.0 x 2.50 | 75.0 x 25.0 x 2.50 |
| **Weight (g)** | 0.85 | 1.66 |
| **Operating Temperature (°C)** | -40 to +85 | -40 to +85 |
| **Ingress Protection** | IP68 | IP68 |
| **Shock and Vibration** | MIL STD 810-G | MIL STD 810-G |
| **Attachment** | Film adhesive (std) | Film adhesive (std) |
| **Order Codes‡** | 149 - US, EU | 160 - US, EU |

1 Read range up to 9.0m at 45° when used in portal applications.  
2 Excludes adhesive options, consult adhesive datasheets for recommended temperature ratings.  
† Order option codes are listed on the datasheets.

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### FEATURED COMPARISON GUIDE

**Product Name**
- **Exo 400HT**
- **Exo 600**
- **Exo 750**
- **Exo 800**
- **Exo 800P Rigid**
- **Exo 1000**
- **Exo 2000**
- **Exo 3000**

**Typical Applications**
- Healthcare sterilization processes
- Manufacturing Automotive: post paint processes
- Logistics & Postal Industries: Manufacturing tote tracking
- Automotive Supply Chain: Logistics and Postal
- Manufacturing tote tracking
- Plastic RTIs and containers: Non-metallic industrial assets
- Manufacturing tote tracking: Retail supply chain
- Logistics and Postal: Defense asset management
- Retail supply chain: Cargo tracking: Heavy equipment tracking and maintenance
- Container tracking for yard management: Location identification in lay down zones

**RF Specifications**
- **Frequency Range (MHz)**
  - Exo 400HT: 902-928 (US) 866-868 (EU) 860–930 (GS)
  - Exo 600: 860–930 (GS)
  - Exo 750: 860–930 (GS)
  - Exo 800: 860–930 (GS)
  - Exo 800P Rigid: 860–930 (GS)
  - Exo 1000: 860–930 (GS)
  - Exo 2000: 860–930 (GS)
  - Exo 3000: 860–930 (GS)

- **Read Range (m)**
  - Fixed reader: Up to 4.0
  - Handheld reader: Up to 6.0
  - Exo 400HT: Up to 11.0 (US), 7.0 (EU)
  - Exo 600: Up to 5.0 (US), 3.5 (EU)
  - Exo 750: Up to 8.0
  - Exo 800: Up to 8.0
  - Exo 800P Rigid: Up to 10.0
  - Exo 1000: Up to 20.0
  - Exo 2000: Up to 20.0
  - Exo 3000: Up to 33.0

- **Material Compatibility**
  - Optimized for Metal
  - Exo 400HT
  - Exo 600
  - Exo 750
  - Exo 800
  - Exo 800P Rigid
  - Exo 1000
  - Exo 2000
  - Exo 3000

- **IC Type**
  - Alien Higgs 3
  - Impinj Monza 4QT
  - Alien Higgs 3
  - Impinj Monza 4QT
  - Alien Higgs 3
  - Impinj Monza 4QT
  - Alien Higgs 3
  - Impinj Monza 4QT

- **Encasement**
  - Exo 400HT: Thermoplastic
  - Exo 600: ABS Rigid Plastic
  - Exo 750: ABS Rigid Plastic
  - Exo 800: ABS Rigid Plastic
  - Exo 800P Rigid: ABS Rigid Plastic
  - Exo 1000: ABS Rigid Plastic
  - Exo 2000: PC ABS blend
  - Exo 3000: PC ABS blend

- **Size (mm)**
  - Exo 400HT: 37.0 × 14.0 × 7.5
  - Exo 600: 80.0 × 15.0 × 12.5
  - Exo 750: 51.0 × 48.0 × 12.6
  - Exo 800: 110 × 25.0 × 12.9
  - Exo 800P Rigid: 105 × 36.0 × 3.5
  - Exo 1000: 110 × 25.0 × 12.7
  - Exo 2000: 139 × 53.0 × 14.9
  - Exo 3000: 174 × 70.0 × 17.7

- **Weight (g)**
  - Exo 400HT: 5.7
  - Exo 600: 12.5
  - Exo 750: 25.6
  - Exo 800: 26.8
  - Exo 800P Rigid: 116
  - Exo 1000: 183
  - Exo 2000: 640
  - Exo 3000: 110

- **Operation Temperature (°C)**
  - Exo 400HT: –20 to +85
  - Exo 600: –20 to +85
  - Exo 750: –20 to +85
  - Exo 800: –20 to +85
  - Exo 800P Rigid: –20 to +85
  - Exo 1000: –40 to +85
  - Exo 2000: –40 to +85
  - Exo 3000: –40 to +85

- **Ingress Protection**
  - IP68
  - IP68
  - IP68
  - IP68
  - IP68
  - IP68
  - IP68

- **Shock and Vibration**
  - MIL STD 810-G
  - MIL STD 810-G
  - MIL STD 810-G
  - MIL STD 810-G
  - MIL STD 810-G
  - MIL STD 810-G
  - MIL STD 810-G
  - MIL STD 810-G

- **Attachment**
  - Mechanical (std): 2 x Ø3mm holes
  - Mechanical (std): Premium foam adhesive (option)
  - Mechanical (std): Premium foam adhesive (option)
  - Mechanical (std): Premium foam adhesive (option)
  - Mechanical (std): Premium foam adhesive (option)
  - Mechanical (std): Premium foam adhesive (option)
  - Mechanical (std): Premium foam adhesive (option)
  - Mechanical (std): Premium foam adhesive (option)

- **Order Codes**
  - Exo 400HT: 144 – EU, US
  - Exo 600: 061 – GS
  - Exo 750: 078 – GS
  - Exo 800: 077 – GS
  - Exo 800P Rigid: 104 – GS
  - Exo 1000: 162 – GS
  - Exo 2000: 152 – GS
  - Exo 3000: 153 – GS

---

1 Order Option Codes are listed on the datasheets.
2 Prolonged exposure to temperatures over 70°C may result in minor dimensional change to the case; attachment by rivets instead of adhesive is recommended.
3 See datasheet for Transparent option.

Values for Comparison only, please refer to Product Datasheets for full specifications. © 2019 Omni-ID. All rights reserved.
## View Range – Display Tags

<table>
<thead>
<tr>
<th>Product Name</th>
<th>View 3</th>
<th>View 4</th>
</tr>
</thead>
</table>
| **Typical Applications** | Manufacturing: Replenishment, Work instructions & Container management  
Health Care: Equipment Tracking and Directional labeling  
IT: Asset Tracking and status  
Logistics: Container Management, Sortation/Postal, Warehousing/Yard Management, Food Supply Chain | Manufacturing: Replenishment, Work instructions & Container management  
Health Care: Equipment Tracking and Directional labeling  
IT: Asset Tracking and status  
Logistics: Container Management, Sortation/Postal, Warehousing/Yard Management, Food Supply Chain | |
| **Screen** | Electrophoretic e-paper display  
Full graphic (black & white), 120° viewing angle (in sunlight) | Electrophoretic e-paper display  
Full graphic (black & white), 120° viewing angle (in sunlight) | |
| **Size (mm) (in)** | 146.5 x 50 x 14.1  
5.77 x 1.97 x 0.56 | 148.5 x 102.5 x 13.9  
5.85 x 4.04 x 0.55 | |
| **Diagonal Viewable Area (in)** | 2.9 | 4.2 | |
| **User Memory** | 16 image pages | 16 image pages | |
| **Battery life**<sup>1</sup> | Up to 4 yrs | Up to 4 yrs | |
| **Passive Read Range**<sup>2</sup>  
**Passive Write Range** | Up to 5m on and off metal  
Up to 3m on and off metal | Up to 5m on and off metal  
Up to 3m on and off metal | |
| **Active Read & Write Range** | 80m on metal  
100m off metal | 80m on metal  
100m off metal | |
| **IC Type (chip)** | MonzaX-2K | MonzaX-2K | |
| **Ingress Protection**<sup>3</sup> | IP65 | IP65 | |
| **Operating Temperature (°C)** | 0 to +40°C | 0 to +40°C | |
| **Attachment** | Adhesive, Bracket, or Zip tie | Adhesive, Bracket, or Zip tie | |
| **Order Codes**<sup>†</sup> | OMNI-V3-G2-ACCY (US, EU)  
OMNI-V3-G2-ACCY-SB (US, EU) | OMNI-V4-G2-ACCY (Global)  
OMNI-V4-G2-ACCY-SB (Global) | |

<sup>1</sup> Actual battery life could be greater depending on configuration and use.  
<sup>2</sup> Indoor installation typical power settings shown. Optimal environments can significantly enhance performance.  
<sup>3</sup> Rating does not apply with blue silicone buttons  
<sup>†</sup> Order Option Codes are listed on the datasheets

Values for Comparison only, please refer to Product Datasheets for product options and full specifications.  
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## Power Range – Active tags

### Product Name
- **Power 60/65**
- **Power 100/115**
- **Power 400/415**

### Typical Applications
- **Power 60/65**: Oil & Gas platforms, Construction sites, Manufacturing facilities, Personnel management.
- **Power 100/115**: IT Data centers, Manufacturing facilities, Warehouse management.
- **Power 400/415**: Manufacturing: Mobile carts, containers and trolleys, Logistics: Lay down yards, vehicles and docks, Construction: Staging and materials tagging.

### RF Specifications

<table>
<thead>
<tr>
<th></th>
<th>Power 60/65</th>
<th>Power 100/115</th>
<th>Power 400/415</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Data Communication</strong></td>
<td>Active 433.92</td>
<td>Active 433.92</td>
<td>Active 433.92</td>
</tr>
<tr>
<td><strong>Typical Active Read Range (m)</strong></td>
<td>Up to 100m</td>
<td>Up to 150m</td>
<td>Up to 400m</td>
</tr>
<tr>
<td><strong>Battery Life</strong></td>
<td>Up to 5 years</td>
<td>Up to 5 years</td>
<td>Up to 5 years</td>
</tr>
<tr>
<td><strong>Protocol</strong></td>
<td>Power 60 - Omni-ID Proprietary, Power 65 - IEEE 802.15.4f</td>
<td>Power 100 - Omni-ID Proprietary, Power 115 - IEEE 802.15.4f</td>
<td>Power 400 - Omni-ID Proprietary, Power 415 - IEEE 802.15.4f</td>
</tr>
</tbody>
</table>

### Physical and Environmental Specifications

<table>
<thead>
<tr>
<th></th>
<th>Power 60/65</th>
<th>Power 100/115</th>
<th>Power 400/415</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Construction</strong></td>
<td>Glass-filled Polycarbonate</td>
<td>Black PCB / ABS blend</td>
<td>Polycarbonate Interior with overmolded TPE</td>
</tr>
<tr>
<td><strong>Size (mm)</strong></td>
<td>95.5 x 63.9 x 10.0</td>
<td>58.5 x 34.8 x 14.0</td>
<td>120 x 36.0 x 30.0</td>
</tr>
<tr>
<td><strong>Weight (g)</strong></td>
<td>53.0</td>
<td>29.0</td>
<td>92.0</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-20°C to +45°C</td>
<td>0°C to +40°C</td>
<td>-40°C to +60°C</td>
</tr>
<tr>
<td><strong>IP Rating</strong></td>
<td>IP65</td>
<td>IP65</td>
<td>IP68 Nema PW12 (High pressure liquids immersion)</td>
</tr>
<tr>
<td><strong>Shock and Vibration</strong></td>
<td>Shock: 20 Gv/9ms, Vibration: Sinusoidal 3G 50-500 Hz, Random 4G 50-500 Hz 4” drop to concrete</td>
<td>Shock: 20 Gv/9ms, Vibration: Sinusoidal 3G 50-500 Hz, Random 4G 50-500 Hz 4” drop to concrete</td>
<td>4” drop to concrete, MIL STD 810-G</td>
</tr>
<tr>
<td><strong>Attachment</strong></td>
<td>Lanyard/clip slots for horizontal or vertical mounting, Clips for ID badge attachment included</td>
<td>Vertical or horizontal mounting via adhesive screw or clip</td>
<td>Screw attachment – (2) #8 screws 0.2”, Cable tie slots each end</td>
</tr>
<tr>
<td><strong>Order Codes</strong></td>
<td>OMNI-P60 - Omni-ID proprietary protocol, OMNI-P65 - IEEE 802.15.4f protocol</td>
<td>OMNI-P100 - Omni-ID proprietary protocol, OMNI-P115 - IEEE 802.15.4f protocol</td>
<td>OMNI-P400 - Omni-ID proprietary protocol, OMNI-P415 - IEEE 802.15.4f protocol, OMNI-P400-X, OMNI-P415-X (ATEX/IECEx Certification)</td>
</tr>
</tbody>
</table>

1. Read Distance can vary based on site characteristics, base station antenna type, height distance and tag configuration.
2. Actual battery life could be greater depending on configuration and use.
3. Order Option Codes are listed on the datasheets.

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