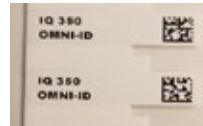


IQ Range – Labels

Featured Comparison Guide



| Product Name | | IQ 150 | IQ 350 | IQ 400P | IQ 400P HT |
|---|---|---|---|--|--|
| Typical Applications | | IT, office, hospital asset tracking Weapons, pipes, road signs Warehouse management | IT and office asset tracking Logistics with metallic packaging Intermodal logistics | Plastic facias's on IT equipment Identification of IT & office hardware | Manufacturing Automotive paint processes Electronics |
| RF Specifications | Frequency Range (MHz) | 902-928 (US) 866-868 (EU) | 902-928 (US) 866-868 (EU) | 860-960 (GS) | 860-960 (GS) |
| | Read Range (m) Fixed reader Handheld reader | Up to 1.6 Up to 1.0 | Up to 3.5 Up to 2.0 | Up to 5.0 Up to 2.5 | Up to 4.0 Up to 2.0 |
| | Material Compatibility | Optimized for all materials | Optimized for all materials | Plastic & non-metallic substrates | Plastic & non-metallic substrates |
| | IC Type | Impinj Monza R6-P | Impinj Monza R6-P | Alien Higgs 3 | Alien Higgs 3 |
| Physical and Environmental Specifications | Encasement / Material | Synthetic label | Synthetic label | Synthetic label | Synthetic label |
| | Size (mm) | 55.0 × 12.5 × 1.20 | 50.0 × 12.5 × 1.30 | 46.5 × 12.4 × 0.24 | 50.0 × 30.0 × 0.49 |
| | Weight (g) | 0.44 | 0.50 | 0.15 | 0.51 |
| | Operating Temperature (°C) Max Temperature Exposure (°C) | -40 to +85 -40 to +85 | -40 to +85 -40 to +85 | -40 to +85 -40 to +85 | -40 to +85 -40 to +230 |
| | Ingress Protection | IP68 | IP68 | IP68 | IP68 |
| | Shock and Vibration | MIL STD 810-G | MIL STD 810-G | MIL STD 810-G | MIL STD 810-G |
| | Attachment | Self Adhesive (std) | Self Adhesive (std) | Self Adhesive (std) | Holes provided for mechanical attachment |
| Order Codes* | 125 – US, EU | 158 – EU, US | 055 – GS | 166 – GS | |

* Order option codes are listed on the datasheets.

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Values for Comparison only, please refer to Product Datasheets for full specifications

IQ Range – Labels

Featured Comparison Guide



🔥 High Temperature

| Product Name | | IQ 600 | IQ 800P | IQ 800P HT |
|---|---|---|---|--|
| Typical Applications | | Logistics & packaging, Pipe manufacturing & recertification IT, Office, & Hospital tracking | Plastic RTI's and containers Plastic pallets | Manufacturing Automotive paint processes Electronics |
| RF Specifications | Frequency Range (MHz) | 902-928 (US) 866-868 (EU) | 860–960 (GS) | 860–960 (GS) |
| | Read Range (m) Fixed reader Handheld reader | Up to 6.0 Up to 3.0 | Up to 10.0 Up to 5.0 | Up to 8.0 Up to 5.0 |
| | Material Compatibility | Optimized for all materials | Plastic & non-metallic substrates | Plastic & on-metallic substrates |
| | IC Type | Impinj Monza R6-P | Alien Higgs 3 | Alien Higgs 3 |
| Physical and Environmental Specifications | Encasement / Material | Synthetic label | Synthetic label | Synthetic label |
| | Size (mm) | 96.0 × 24.0 × 1.30 | 95.0 × 21.0 × 0.24 | 85.0 × 55.0 × 0.49 |
| | Weight (g) | 1.50 | 0.50 | 1.50 |
| | Operating Temperature (°C) Max Temperature Exposure (°C) | -40 to +85 -40 to +85 | -40 to +85 -40 to +85 | -40 to +85 -40 to +230 |
| | Ingress Protection | IP68 | IP68 | IP68 |
| | Shock and Vibration | MIL STD 810-G | MIL STD 810-G | MIL STD 810-G |
| | Attachment | Self Adhesive (std) | Self Adhesive (std) | Holes provided for mechanical attachment |
| Order Codes* | | 133 – US, EU | 056 – GS | 165 – GS |

* Order option codes are listed on the datasheets.

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Fit Range – Small for Integration, High Temperature

Featured Comparison Guide



High Temperature

High Temperature

High Temperature

| Product Name | | Fit 210HT | Fit 220HT | Fit 400HT |
|---|---|--|---|---|
| Typical Applications | | Hand Tool tracking Paint processes in automotive IT assets at point of manufacture Healthcare - sterilization | Small metal tools IT assets Healthcare instruments | Tool tracking including metal hand tools Metal IT assets Autoclaves & high temperature sterilizations |
| RF Specifications | Frequency Range (MHz) | 902–928 (US) 866–868 (EU) | 902–928 (US) 866–868 (EU) | 902–928 (US) 866–868 (EU) |
| | Read Range (m) Fixed reader Handheld reader | Up to 2.0 Up to 1.0 | Up to 2.2 Up to 1.4 | Up to 4.0 Up to 2.0 |
| | Material Compatibility | Optimized for Metal | Optimized for Metal | Optimized for Metal |
| | IC Type | Alien Higgs 3 | Alien Higgs 3 | Alien Higgs 3 |
| Physical and Environmental Specifications | Finish | Red PCB | Ceramic - Painted Black | Ceramic -Painted Black |
| | Size (mm) | 57.1 x 5.95 x 1.3 | 7.80 x 6.80 x 2.70 (includes IC bump) | 13.10 x 7.80 x 3.10 (includes IC bump) |
| | Weight (g) | 1.00 | 0.60 | 1.50 |
| | Operating Temperature (°C) ¹ Max Temperature Exposure (°C) ¹ | -20 to +85 -20 to +225 | -20 to +85 -20 to +235 | -20 to +85 -20 to +235 |
| | Ingress Protection | IP68 | IP68 | IP68 |
| | Shock and Vibration | MIL STD 810-G | MIL STD 810-G | MIL STD 810-G |
| | Attachment | Film adhesive (standard) [For placement only in applications exceeding +85°C] | Film adhesive (standard) [For placement only in applications exceeding +85°C] | Film adhesive (standard) [For placement only in applications exceeding +85°C] |
| Order Codes [*] | 123 - EU, US | 155 - EU, US | 124 - EU, US | |

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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.

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Flex Range – Flexible to Fit Many Applications

Featured Comparison Guide



| Product Name | | Flex 600 | Flex 1200 |
|---|---|--|--|
| 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 |
| RF Specifications | Frequency Range (MHz) | 902–928 (US) 866–868 (EU) | 902–928 (US) 866–868 (EU) |
| | Read Range (m) Fixed reader Handheld reader | Up to 6.0' on metal, 3.0m off metal Up to 3.0m on metal, 1.5m off metal | Up to 12.0m on metal, 8.0m 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 |
| Physical and Environmental Specifications | 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) ¹ | -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 | |

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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.

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Values for Comparison only, please refer to Product Datasheets for full specifications

Exo Range – Encased and Heavy-Duty

Featured Comparison Guide



| Product Name | | High Temperature | Global | Global | Global | Global |
|---|---|---|---|--|--|--|
| Product Name | | Exo 400HT | Exo 600 | Exo 750 | Exo 800 | Exo 800P Rigid |
| Typical Applications | | Healthcare sterilization processes Manufacturing Automotive. post paint processes | Logistics & Postal Industries. Automotive. Retail & warehousing | Automotive Supply Chain. Logistics and Postal. Manufacturing tote tracking | Manufacturing tote tracking. Logistics and Postal. Retail supply chain | Plastic RTIs and containers Plastic pallets Non-metallic industrial assets |
| RF Specifications | Frequency Range (MHz) | 902-928 (US) 866-868 (EU) | 860–930 (GS) | 860–930 (GS) | 860–930 (GS) | 860–930 (GS) |
| | Read Range (m) Fixed reader Handheld reader | Up to 4.0 Up to 2.0 | Up to 6.0 Up to 3.0 | Up to 11.0 (US), 7.0 (EU) Up to 5.0 (US), 3.5 (EU) | Up to 8.0 Up to 4.0 | Up to 8.0 |
| | Material Compatibility | Optimized for Metal | Optimized for Metal | Optimized for Metal | Optimized for Metal | Optimized for Plastic |
| | IC Type | Alien Higgs 3 | Impinj Monza 4QT | Impinj Monza 4QT | Impinj Monza 4QT | Alien Higgs 3 |
| Physical and Environmental Specifications | Encasement ² | Thermoplastic | ABS Rigid Plastic | ABS Rigid Plastic | ABS Rigid Plastic | ABS Rigid Plastic |
| | Size (mm) | 37.0 × 14.0 × 7.5 | 80.0 × 15.0 × 12.5 | 51.0 × 48.0 × 12.6 | 110 × 25.0 × 12.9 | 105 × 36.0 × 3.5 |
| | Weight (g) | 5.7 | 12.5 | 25.6 | 26.8 | 11.6 |
| | Operation Temperature (°C) | -20 to +85 | -40 to +85 | -40 to +85 | -40 to +85 | -20 to +85 |
| | Max Temperature Exposure (°C) | -20 to +235 | -40 to +85 | -40 to +85 | -40 to +85 | -20 to +85 |
| | Ingress Protection | 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 |
| 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) | Rivet/Screw(not included) Premium foam adhesive (option) | |
| Order Codes [*] | 144 – EU, US | 061 – GS | 078 – GS | 077 – GS | 104 – GS | |

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

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Values for Comparison only, please refer to Product Datasheets for full specifications

Exo Range – Encased and Heavy-Duty

Featured Comparison Guide



🌐 Global



🌐 Global



🌐 Global

| Product Name | | Exo 1000 | Exo 2000 | Exo 3000 |
|---|--------------------------------|--|--|---|
| Typical Applications | | Manufacturing tote tracking Logistics and Postal Retail supply chain | Container tracking for yard management. Cargo tracking. Defense asset management | Cargo and container tracking. Heavy equipment tracking and maintenance. Location identification in lay down zones |
| RF Specifications | Frequency Range (MHz) | 860–930 (GS) | 860–930 (GS) | 860–930 (GS) |
| | Read Range (m) Fixed reader | Up to 10.0 | Up to 20.0 | Up to 33.0 |
| | Handheld reader | Up to 8.0 | Up to 9.0 | Up to 20.0 |
| | Material Compatibility | Optimized for Metal | Optimized for Metal | Optimized for Metal |
| IC Type | | Impinj Monza 4QT | Impinj Monza 4QT | Impinj Monza 4QT |
| Physical and Environmental Specifications | Encasement | ABS Rigid Plastic | PC ABS blend | PC ABS blend |
| | Size (mm) | 110 × 25.0 × 12.7 | 139 × 53.0 × 14.9 | 174 × 70.0 × 17.7 |
| | Weight (g) | 18.3 | 64.0 | 110 |
| | Operation Temperature (°C) | –40 to +85 ¹ | –40 to +85 | –40 to +85 |
| | Max Temperature Exposure (°C) | –40 to +85 ¹ | –40 to +100 | –40 to +100 |
| | Ingress Protection | IP68 | IP68 | IP68 |
| | Shock and Vibration | MIL STD 810-G | MIL STD 810-G | MIL STD 810-G |
| | Attachment | Mechanical (std) 2 x Ø3mm holes | Manual (std) Premium Foam adhesive (option) | Mechanical (standard) Premium foam adhesive (option) |
| Order Codes ² | | 144 – EU, US | 152 – GS | 153 – GS |

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

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Sense^{IoT} Range – Intelligent, Powerful IoT Devices

Omni-ID[®]
Intelligent Tracking & Monitoring Devices



| Product Name | Sense ^{IoT} Asset | Sense ^{IoT} Asset XL | Sense ^{IoT} Condition (with Alert Button) | Sense ^{IoT} Condition (with Laser Range Finder) | Sense ^{IoT} Fit 400 | |
|-----------------------------------|--|---|--|--|--|---|
| Typical Applications | Hospitals, Manufacturing facilities, Warehouse management, Cold chain condition monitoring, Container management, Facilities management, Ports construction & mining, Asset management | Cold chain condition monitoring, Container management, Facilities management, Ports construction & mining, Field operations, Asset management, Worker accountability, Fleet monitoring, Yard management | Facilities management, Production line material flow, Consumable replenishment, Room utilisation, State change notification, Space/asset utilisation, Field operations, Ports construction & mining, Emergency detection, Asset management, Worker accountability, Fleet monitoring, Yard management | Facilities management, Production line material flow, Consumable replenishment, Room utilisation, State change notification, Space/asset utilisation, Field operations, Ports construction & mining, Emergency detection, Asset management, Worker accountability, Fleet monitoring, Yard management | Efficient operation, Equipment monitoring in-house or in transit, Data Centers and metal IT assets – both in terms of tracking and temperature monitoring, Embedding the tag into metal components, Monitoring mechanical plants | |
| Operational Specifications | Radio Protocol | Bluetooth 4.2 (2.45GHz) +8dBm to -15dBm NFC (Beacon configured via NFC) | LoRaWAN NFC (Beacon configured via NFC) | LoRaWAN NFC (Beacon configured via NFC) | LoRaWAN NFC (Beacon configured via NFC) | EPC Class 1 Gen2v2 |
| | Frequency Range LoRa | N/A | 868MHz (EU) 915MHz (US) | 868MHz (EU) 915MHz (US) | 868MHz (EU) 915MHz (US) | 866-868 (EU) 902-928 (US) |
| | Battery Type | Sealed Prismatic battery, non-replaceable | Sealed Prismatic battery, non-replaceable | Sealed Prismatic battery, non-replaceable | Sealed Prismatic battery, non-replaceable | N/A |
| | Battery Capacity | 1.5Ah | 4.8Ah | 3.85Ah | 3.85Ah | N/A |
| | Battery Life | 5 years, 5% motion, 10 second beacon rate | 5 years, 2,000 movements | 5 years+, 25,000 activations | 5 years+ at 15 Minute range reading interval | N/A |
| | Read Range | 200 m+ depending on reading device | Range 3–4 km urban — can be up to 15 km line of sight | Range 3–4 km urban — can be up to 15 km line of sight | Range 3–4 km urban — can be up to 15 km line of sight | Fixed reader: Up to 4 m (13.1 ft) Handheld reader: Up to 2 m (6.6 ft) ¹ |
| | Default Beacon Rate | Configurable from 1–10 seconds | Configurable from 1–254 hours | Configurable from 1–254 hours | Configurable from 1–254 hours | N/A |
| | Alarm Beacon Rate | Configurable from 0–10 seconds (where 0 is off) | Configurable from 1–254 minutes (where 0 is off) | Configurable from 1–254 minutes (where 0 is off) | Configurable from 1–254 minutes (where 0 is off) | N/A |
| | Sensors | Accelerometer, Temperature | GPS (Location) Accelerometer (Movement) Temperature (Measurement) | Push Button (Alert) Optional: Temperature, Accelerometer (Movement) Temperature (Measurement) | Laser Range Finder Optional: Temperature, Accelerometer (Movement) Temperature (Measurement) | Temperature |
| LED Indicator | Yes | Yes | Yes | Yes | No | |
| Temperature Sensor Range | -20°C to +60°C with an accuracy of +/-2°C | -20°C to +60°C with an accuracy of +/-2°C | N/A | N/A | | |

1. Excludes adhesive options, consult adhesive datasheet for recommended temperature ratings.

Continues overleaf

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Sense^{IoT} Range – Intelligent, Powerful IoT Devices

Omni-ID[®]
Intelligent Tracking & Monitoring Devices



| Product Name | Sense ^{IoT} Asset | Sense ^{IoT} Asset XL | Sense ^{IoT} Condition (with Alert Button) | Sense ^{IoT} Condition (with Laser Range Finder) | Sense ^{IoT} Fit 400 |
|---|--|--|--|---|--|
| Configurable | Tag Type (GATT Profile) Alarm Beacon Rate Default Beacon Rate Temp. Threshold Acc. Threshold | Alarm Beacon Rate Default Beacon Rate Temp. Threshold Acc. Threshold *GNSS Min. Lock Time *GNSS Max. Lock Time *GNSS DOP Threshold | Alarm Beacon Rate Default Beacon Rate Sensor Period (Minutes) Optional Temp | Alarm Beacon Rate Default Beacon Rate Sensor Period (Minutes) | N/A |
| Supported Profiles | Open, iBeacon, Eddystone UUID | N/A | N/A | N/A | N/A |
| Construction | Overmolded durable, shock resistant TPE (Thermoplastic elastomer) | Overmolded durable, shock resistant TPE (Thermoplastic elastomer) | 2-part durable PC/ABS Case | 2-part durable PC/ABS Case | Painted black. Optimized for metal |
| Size (mm) | 95.1 × 34.2 × 21 | 113.4 × 58.3 × 24.3 | 80.3 × 60.3 × 21.3 | 102.5 × 60.3 × 20.1 | 131 x 8.05 x3.1 including IC bump Tolerance +/-0.5 |
| Weight (g) | 59 | 134 | 77 | 80 | 1.4 |
| Attachment | Mechanical (std) Film Adhesive (optional) | Mechanical (std) Film Adhesive (optional) | Film Adhesive | Mechanical (std) Film Adhesive (optional) | Film adhesive (included) for placement only in applications exceeding +85°C ² |
| Operating Temperature | -20°C to +60°C | -20°C to +60°C | -20°C to +60°C | | -40°C to +85°C ¹ |
| High-temperature Alarm | N/A | N/A | N/A | N/A | Up to +125°C ¹ |
| Max Temperature Exposure¹ | N/A | N/A | N/A | N/A | 220°C short term 168 hrs 150°C long term 700 hrs |
| IP Rating | IP68 | IP68 | IP68 | IP68 | Magnus S3: M3D / M3E |
| Shock and Vibration | MIL-STD-810-F | MIL-STD-810-F | MIL-STD-810-F | MIL-STD-810-F | MIL-STD-810-G |
| IC Type (chip) | N/A | N/A | N/A | N/A | Magnus S3: M3D / M3E |
| Warranty | 1 year | 1 year | 1 year | 1 year | 1 year |
| Certifications | CC, FCC, ROHS, WEEE, NFC, BLE | CC, FCC, ROHS, WEEE, NFC, LoRa | CC, FCC, ROHS, WEEE, NFC, LoRa | CC, FCC, ROHS, WEEE, NFC, LoRa | CE , ROHS, ATEX Certified (Optional) CIDI/D2 Certified (optional) |

1. Excludes adhesive options, consult adhesive datasheet for recommended temperature ratings. 2. The product has been designed for optimal RF performance when used with 130 micron +/-20% adhesive under the tag.

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