








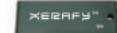








Product Guide

| Series | Rugged Line | | | | | Versatile On and Off Metal Line | | | | | |
|------------------------------|---|--|---|---|---|--|--|--|---|---|---|
| | X II / Pico Plus Series | | | XS Series | | Trak Series | | | | | |
| Product |  |  |  |  |  |  |  |  |  |  |  |
| Operating frequency | 902-928 MHz [US] 866-868 MHz [EU] | 902-928 MHz [US] 866-868 MHz [EU] | 902-928 MHz [US] 866-868 MHz [EU] | 902-928 MHz [US] 866-868 MHz [EU] | 902-928 MHz [US] 866-868 MHz [EU] | 902-928 MHz [US] 866-868 MHz [EU] | 902-928 MHz [US] 866-868 MHz [EU] | 902-928 MHz [US] 866-868 MHz [EU] | 902-928 MHz [US] 866-868 MHz [EU] | 860-960 MHz [Global] | 860-960 MHz [Global] |
| IC type | Alien Higgs-3 | Alien Higgs-3 | Alien Higgs-3 | Alien Higgs-3 | Alien Higgs-3 | Impinj Monza R6-P | Alien Higgs-3 | Alien Higgs-3 | Impinj Monza 4E | Impinj Monza 4QT | Alien Higgs-3 |
| Memory configuration | 96 EPC bits, extensible to 480-bit, 512-bit user memory, 64-bit TID | 96 EPC bits, extensible to 480-bit, 512-bit user memory, 64-bit TID | 96 EPC bits, extensible to 480 bits (512 bits user memory), 64-bit TID | 96 EPC bits, extensible to 480-bit, 512-bit user memory, 64-bit TID | 96 EPC bits, extensible to 480-bit, 512-bit user memory, 64-bit TID | 128 EPC bits, 32-bit user memory, 48-bit TID; Max user memory 64-bit, 48 TID, 96 EPC bits | 96 EPC bits, extensible to 480-bit, 512-bit user memory, 64-bit TID | 96 EPC bits, extensible to 480-bit, 512-bit user memory, 64-bit TID | 48-bit serialized TID, 496 EPC bits, 128-bit user memory | 128-EPC bits; 512-bit user memory | 96-bit EPC, 512-bit user memory, 64-bit TID |
| Read range on metal (2W ERP) | Up to 33 ft (10 m) | Up to 20 ft (6 m) | Up to 10 ft (3 m) | Up to 6.6 ft (2 m) | Up to 5 ft (1.5 m) | Up to 65 ft (20 m) | Up to 39 ft (12 m) | Up to 26 ft (8 m) | Up to 14.8 ft (4.5 m) | Up to 8 ft (2.5 m) | Up to 6.5 ft (2 m) |
| Read range off metal | Limited | Limited | Limited | Limited | Limited | Up to 39 ft (15 m) | Up to 20 ft (6 m) | Up to 13 ft (4 m) | Up to 8 ft (2.5 m) | Up to 6 ft (1.8 m) | Up to 4.9 ft (1.5 m) |
| Case material | Engineering grade nylon polymer | Engineering grade nylon polymer | Engineering grade nylon polymer/ Ceramic | Ceramic | Ceramic | Anti-UV Industry Grade Polymer | Anti-UV Industry Grade Polymer | Anti-UV Industry Grade Polymer | Polycarbonate | Polycarbonate | FR4 |
| Mounting system | Rivet hole, ø 0.12 in (3.2 mm); adhesive (optional) | High performance adhesive | High performance adhesive | Epoxy | Epoxy | Rivet hole, ø 1/4" M6, adhesive (optional) Cable tie, Metal Insert (optional) | Rivet hole, ø 0.14 in (3.5 mm); adhesive (optional) | High performance adhesive/Rivet hole, ø 0.14 in (3.5 mm); adhesive (optional) | Adhesive; built-in ø 0.1 in (2.6 mm) tethering hole | Adhesive; built-in ø 0.1 in (2.6 mm) tethering hole | Adhesive (TESA 51972), epoxy (optional) |
| Operating temperature | -40°F to +185°F (-40°C to +85°C) | -22°F to +185°F (-30°C to +85°C) | -22°F to +185°F (-30°C to +85°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +185°F (-40°C to +85°C) |
| Application temperature | -40°F to +482°F (-40°C to +250°C) | -40°F to +302°F (-40°C to +150°C) | -40°F to +302°F (-40°C to +150°C) | -40°F to +302°F (-40°C to +150°C) | -40°F to +302°F (-40°C to +150°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +302°F (-40°C to +150°C) |
| Compression strength | 181 psi (1250 kPa) | 166.8 psi (1150 kPa) | 174 psi (1200 kPa) / 170 psi (1176 kPa) | 790 psi (5447kPa) | 790 psi (5447kPa) | 29 psi (200 kPa) | 29 psi (200 kPa) | 26.1 psi (180 kPa) | 14.5 psi (100 kPa) | 14.5 psi (100 kPa) | 106 psi (731 kPa) |
| IP classification | IP68 | IP68 | IP68 | IP68 | IP68 | IP68 | IP68 | IP68/IP54 | IP54 | IP54 | IP68 |
| Dimensions | 2.01 x 1.43 x 0.30 in (51 x 36.3 x 7.5 mm) | 1.25 x 0.51 x 0.20 in (31.7 x 12.8 x 4.8 mm) | 0.70 x 0.43 x 0.2 in (17.7 x 10.9 x 5 mm) / 0.47 x 0.28 x 0.13 in (12 x 7 x 3.2 mm) | 0.48 x 0.12 x 0.09 in (12.3 x 3 x 2.2 mm) | ø 0.24 x 0.1 in (ø 6 x 2.5 mm) | 5.46x 4.99 x 0.47 in (138.8 x 42 x 12 mm) | 3.94 x 1.02 x 0.35 in (100 x 26 x 8.9 mm) | 2.88 x 0.9 x 0.33 in (73.3 x 22.8 x 8.3 mm) / 1.98 x 0.67 x 0.21 in (50.3 x 17 x 5.3 mm) | 1.50 x 0.51 x 0.16 in (38 x 13 x 4 mm) | 1.50 x 0.51 x 0.16 in (38 x 13 x 4 mm) | 2.22 x 0.234 x 0.051 in (56.5 x 5.95 x 1.3 mm) |
| Weight | 0.92 oz (26 g) | 0.18 oz (5 g) | 0.07 oz (2 g) / 0.05 oz (1.4 g) | 0.016 oz (0.44 g) | 0.012 oz (0.34 g) | 1.45 oz (41 g) | 0.62 oz (17.8 g) / 0.61 oz (17.2 g) | 0.39 oz (11 g) / 0.11 oz (3 g) | 0.08 oz (2.3 g) | 0.09 oz (2.6 g) | 0.035 oz (1 g) |
| Suggested applications | Bulk container tracking, vehicle tracking, post-paint oven baking, medical equipment tracking | Tool tracking, WIP conveying equipment, IT/telecom management, instrument tracking, weapons tracking | Tool tracking, weapon tracking, medical device management, instrument tracking | Instrument tracking, tool tracking, medical device management, source tagging | Instrument tracking, tool tracking, medical device management, source tagging | Outdoor using, Vehicle chassis and trailer tracking, Unit Load Device identification, logistics management | Outdoor using, Vehicle chassis and trailer tracking, Unit Load Device identification, logistics management | Unit Load Device identification, logistics management pallet tracking, RTI management, storage rack identification | IT asset management, Datacenter servers, Healthcare equipment | Global supply chain logistics, IT asset management, datacenter servers | IT server rack, military asset & weapon tracking, tool tracking |

Products marked with an asterisk(*) are available in autoclavable version.

Product Guide

| Series | Embeddable Line for Source Tagging and Extreme Conditions | | | | | Flexible Metal Label Line | | | Specialty Tag Line | | |
|-------------------------------|---|---|--|--|---|---|--|--|---|--|--|
| | iN Series | XS Series | XS Series | XXS Series | XXS Series | Metal Skin™ Series | | | Specialized Series | | |
| Product |  Pico-iN Plus |  Dash-iN XS |  Dot-iN XS |  Dash XXS* |  Dot XXS* |  Mercury Metal Skin |  Platinum Metal Skin |  Titanium Metal Skin |  Bric |  Autoclavable Roswell*/ Roswell |  Xplorer |
| Operating frequency | 902-928 MHz (US) 866-868 MHz (EU) | 902-928 MHz (US) 866-868 MHz (EU) | 902-928 MHz (US) 866-868 MHz (EU) | 902-928 MHz (US) 866-868 MHz (EU) | 902-928 MHz (US) 866-868 MHz (EU) | 860-960 MHz (Global) | 902-928 MHz (US) 865-868 MHz (EU) | 902-928 MHz (US) 865-868 MHz (EU) | 902-928 MHz (US) 866-868 MHz (EU) | 902-928 MHz (US) 866-868 MHz (EU) | 902-928 MHz (US) 865-868 MHz (EU) |
| IC type | Alien Higgs-3 | Alien Higgs-3 | Alien Higgs-3 | Alien Higgs-3 | Alien Higgs-3 | Impinj Monza 4E | Alien higgs4 | Impinj Monza M5 | Alien Higgs-3 | Alien Higgs-3 | Alien Higgs-3 |
| Memory configuration | 96 EPC bits, extensible to 480-bit, 512-bit user memory, 64-bit TID | 96 EPC bits, extensible to 480-bit, 512-bit user memory, 64-bit TID | 96 EPC bits, extensible to 480-bit, 512-bit user memory, 64-bit TID | 96 EPC bits, extensible to 480-bit, 512-bit user memory, 64-bit TID | 96 EPC bits, extensible to 480-bit, 512-bit user memory, 64-bit TID | 48-bit serialized TID, 496 EPC bits, 128-bit user memory | 128 bits user memory, 128 bits EPC, 96 bits TID | 48-bit serialized TID, 128 EPC bits | 96 EPC bits, extensible to 480-bit, 512-bit user memory, 64-bit TID | 96 EPC bits, extensible to 480-bit, 512-bit user memory, 64-bit TID | 96 EPC bits, extensible to 480-bit, 512-bit user memory, 64-bit TID |
| Read range on metal (2W ERP) | Up to 6.6 ft (2 m) when embedded | Up to 5 ft (1.5 m) when embedded | Up to 3 ft (1 m) when embedded | Up to 2 ft (0.6 m) | Up to 1.6 ft (0.5 m) | Up to 13 ft (4 m) | Up to 6.6 ft (2 m) | Up to 4 ft (1.2 m) | Up to 19 ft (6 m) | Up to 16.4 ft (5 m) | 5 ft (1.5m) when embedded |
| Read range off metal (2W ERP) | Limited | Limited | Limited | Limited | Limited | Up to 16 ft (5 m) | Up to 3.9 ft (1.2 m) | Up to 4 ft (1.2 m) | Up to 13 ft (4 m); 6.5 ft (2 m) when embedded 2 in (50 mm) in concrete | Limited | Limited |
| Case material | Ceramic | Ceramic | Ceramic | Ceramic | Ceramic | Not applicable | Not applicable | Not applicable | Engineering grade nylon polymer | Stainless steel/ Aluminum 6061-T6 | Stainless steel |
| Mounting system | Epoxy, embedded | Epoxy, embedded | Epoxy, embedded | Epoxy, embedded | Epoxy, embedded | High performance adhesive | High performance adhesive | High performance adhesive | Mounted or embedded in concrete | Welding, cable tie, rivet hole ø 0.19 in (ø 5 mm) | Snap in |
| Operating temperature | -22°F to +185°F (-30°C to +85°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +185°F (-40°C to +85°C) |
| Application temperature | -40°F to +302°F (-40°C to +150°C) | -40°F to +302°F (-40°C to +150°C) | -40°F to +302°F (-40°C to +150°C) | -40°F to +302°F (-40°C to +150°C) | -40°F to +302°F (-40°C to +150°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +185°F (-40°C to +85°C) | -40°F to +194°F (-40°C to +90°C) | -40°F to +482°F (-40°C to +250°C) | -58°F to +482°F (-50°C to +250°C) |
| Compression strength | Packaging dependent | Packaging dependent | Packaging dependent | Packaging dependent | Packaging dependent | 92 psi (634 kPa) | 14 psi (97 kPa) | 58 psi (400 kPa) | 93 psi (641 kPa) | 1145 psi (7900 kPa)/ 115 psi (793 kPa) | 30,000 psi (206 MPa) |
| IP classification | IP68 | IP68 | IP68 | IP68 | IP68 | Not applicable | Not applicable | Not applicable | IP68 | IP69K | IP69K |
| Dimensions | 0.47 x 0.28 x 0.12 in (12 x 7 x 3 mm) | 0.48 x 0.12 x 0.09 in (12.3 x 3 x 2.2 mm) | ø 0.24 x 0.1 in (ø 6 x 2.5 mm) | 0.26 x 0.08 x 0.08 in (6.75 x 2.08 x 2.08 mm) | ø 0.16 x 0.10 in (ø 4.08 x 2.58 mm) | Label: 4 x 1.5 x 0.03 in (101.6 x 38 x 0.76 mm) | Label: 2.28 x 0.75 x 0.03 in (58 x 19 x 0.8 mm) | Label: 1.77 x 0.22 x 0.03 in (45 x 5.6 x 0.86 mm) | 2.75 x 1.25 x 0.43 in (70 x 32 x 11 mm) | 1.89 x 1.10 x 0.53 in (48 x 28 x 13.5 mm) | ø 1.11 x 0.33 in / (ø 28.3 x 8.5 mm) |
| Weight | 0.05 oz (1.4 g) | 0.016 oz (0.44 g) | 0.012 oz (0.34 g) | 0.004 oz (0.12 g) | 0.012 oz (0.34 g) | Reel: 4.85 lbs (2.2 kg) | Reel: 3.53 lbs (1.6 kg) | Reel: 2.54 lbs (1.15 kg) | 0.85 oz (24 g) | 1.55 oz / 44 g 0.74 oz / 21 g | 0.89 oz (25.4 g) |
| Suggested applications | IT and laptop tracking, tool tracking, embedded bolt identification, weapons tracking | Instrument tracking, tool tracking, medical device management, source tagging | Instrument tracking, tool tracking, medical device management, source tagging | Surgical instrument management, Small asset tracking, Source tagging | Surgical instrument management, Small asset tracking, Source tagging | Product authentication, IT asset tracking, global supply chain, cylinder tracking, foil-based packaging | Housewares, electronic equipment, computer and laptops, cosmetics, foil-based packaging | Product authentication, IT asset and laptop tracking, radio and mobile equipment, foil-based packaging | Facility management, logistics management, work in progress | Surgical Trays, Oil & Gas Valve / Wellhead Management, Food Processing Plants, Automotive Manufacturing | Downhole and Surface Drill Pipes, Sub-sea Oil Pipes, BOPs and Wellheads |

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