

Product Guide

	Rugged Line					Versatile On and Off Metal Line					
Series	X II / Pico Plus Series			XS Series		Trak Series					
Product											
	Micro ^X II*	Nano ^X II	Pico ^X II Plus/ Pico On Plus	Dash-On XS*	Dot-On XS*	Container Trak	Cargo Trak II/ Cargo Trak	Versa Trak II/ Versa Trak	Data Trak II	Global Trak I	Slim Trak
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, exten- sible to 480-bit, 512- bit user memory, 64-bit TID	96 EPC bits, exten- sible to 480-bit, 512- bit user memory, 64-bit TID	96 EPC bits, extendable to 480 bits [512 bits user memory], 64-bit TID	96 EPC bits, exten- sible to 480-bit, 512- bit user memory, 64-bit TID	96 EPC bits, extendable 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, exten- sible to 480-bit, 512- bit user memory, 64-bit TID	96 EPC bits, exten- sible 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 (3.5mm); adhesive (optional)	Adhesive; built-in ø 0.1 in (2.6 mm) tethering hole	Adhesive; built-in ø 0.1 in (2.6 mm) tether- ing 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 (5447 kPa)	790 psi (5447 kPa)	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]	5.46 x 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		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) 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)
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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