








Product Guide

	MICRO X-II Series				PICO Series		XS Series			ROSWELL Series	
Series											
Product											
	Micro X-II	Micro X-II Paintshop	Micro X-II Autoclavable	Micro X-II Plus Automotive	Pico [®] II Plus/ Pico On Plus	Pico-iN Plus	Dash-On XS [*]	Dot-On XS [*]	Dot Wedge	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]	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] 865-868 MHz [EU]	902-928 MHz [US] 865-868 MHz [EU]	902-928 MHz [US] 865-868 MHz [EU]
IC type	Alien Higgs-3	Alien Higgs-3	Alien Higgs-3	Qstar-56GN	Alien Higgs-3	Alien Higgs-3	Alien Higgs-3	Alien Higgs-3	Alien Higgs-3	Alien Higgs-3	Alien Higgs-3
Memory configuration	96 EPC bits, extendable to 480-bit, 512-bit user memory, 64-bit TID	96 EPC bits, extendable to 480-bit, 512-bit user memory, 64-bit TID	96 EPC bits, extendable to 480-bit, 512-bit user memory, 64-bit TID	496-EPC bits; 2K-bit user memory; 256-bit TID	96 EPC bits, extendable to 480 bits (512 bits user memory), 64-bit TID	96 EPC bits, extendable to 480-bit, 512-bit user memory, 64-bit TID	96 EPC bits, extendable to 480-bit, 512-bit user memory, 64-bit TID	96 EPC bits, extendable to 480-bit, 512-bit user memory, 64-bit TID	96 EPC bits, extendable to 480-bit, 512-bit user memory, 64-bit TID	96 EPC bits, extendable to 480-bit, 512-bit user memory, 64-bit TID	96 EPC bits, extendable to 480-bit, 512-bit user memory, 64-bit TID
Read range on metal (2W ERP)	Up to 33 ft (10 m)	Up to 33 ft (10 m)	Up to 33 ft (10 m)	Up to 23 ft (7 m)	Up to 10 ft (3 m)	Up to 6.6 ft (2 m) when embedded	Up to 6.6 ft (2 m)	Up to 5 ft (1.5 m)	Up to 3.3 ft (1 m)	Up to 16.4 ft (5 m)	5 ft (1.5m) when embedded
Read range off metal	Limited	Limited	Limited	Limited	Limited	Limited	Limited	Limited	Limited	Limited	Limited
Case material	Engineering grade nylon polymer	Engineering grade nylon polymer	Engineering grade nylon polymer	Engineering grade nylon polymer	Engineering grade nylon polymer/ Ceramic	Ceramic	Ceramic	Ceramic	High performance engineering polymer	Stainless steel/ Aluminum 6061-T6	Stainless steel
Mounting system	Rivet hole, ø 0.12 in (3.2 mm); adhesive (optional)	Screws (Rivet hole, M3) Pop rivets (Max size 2.4mm)	Screws (Rivet hole, M3) Pop rivets (Max size 2.4mm)	Screws (Rivet hole, M4) Pop rivets (Max size 3.2mm) Adhesive bondings	High performance adhesive	Epoxy, embedded	Epoxy	Epoxy	Press fit	Welding, cable tie, rivet hole ø 0.19 in (ø 5 mm)	Press fit
Operating temperature	-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)	-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)
Application temperature	-40°F to +482°F (-40°C to +250°C)	-40°F to +482°F (-40°C to +250°C)	-40°F to +302°F (-40°C to +150°C)	-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)	-58°F to +428°F (-50°C to +220°C)	-40°F to +482°F (-40°C to +250°C)	-58°F to +482°F (-50°C to +250°C)
Compression strength	181 psi (1250 kPa)	181 psi (1250 kPa)	181 psi (1250 kPa)	725psi (5000 kPa)	174 psi (1200 kPa) / 170 psi (1176 kPa)	Packaging dependent	790 psi (5447kPa)	790 psi (5447kPa)	10,100psi (70 MPa)	1145 psi (7900 kPa)/ 115 psi (793 kPa)	30,000 psi (206 MPa)
IP classification	IP68	IP68	IP69K	IP68	IP68	IP68	IP68	IP68	IP68	IP68	IP69K
Dimensions	2.01 x 1.43 x 0.30 in (51 x 36.3 x 7.5 mm)	2.01 x 1.43 x 0.30 in (51 x 36.3 x 7.5 mm)	2.01 x 1.43 x 0.30 in (51 x 36.3 x 7.5 mm)	2.27 x 1.43 x 0.30 in (57.6 x 36.2 x 7.5 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)	0.47 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)	ø 0.405 x 0.181 in (ø 10.3 x 4.6mm)	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	0.92 oz (26 g)	0.98 oz (28 g)	0.98 oz (28 g)	1.06 oz (30 g)	0.07 oz (2 g) / 0.05 oz (1.4 g)	0.05 oz (1.4 g)	0.016 oz (0.44 g)	0.012 oz (0.34 g)	0.28 oz (8 g)	1.55 oz / 44 g 0.74 oz / 21 g	0.89 oz (25.4 g)
Suggested applications	Bulk container tracking, vehicle tracking, post-paint oven baking, medical equipment tracking	Automotive manufacturing	Healthcare Equipments Management Assets Tracking in Autoclavable Environment	Automotive manufacturing	Tool tracking, weapon tracking, medical device management, instrument tracking	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	Onshore and Offshore Pipes Heavy Equipment and Tools Automotive Manufacturing Molds	Surgical Trays Oil & Gas Valve Wellhead Management Food Processing Plants, Automotive Manufacturing	Downhole and Surface Drill Pipes, Sub-sea Oil Pipes, BOPs and Wellheads

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

Product Guide

Series	NANO Series	TRAK Series					TRAK OUTDOORS Series			METAL SKIN 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)	860-960 MHz (Global)	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)	860-960 MHz (Global)	902-928 MHz (US) 865-868 MHz (EU)	902-928 MHz (US) 865-868 MHz (EU)	
IC type	Alien Higgs-3	Alien Higgs-3	Impinj Monza 4E	Impinj Monza 4QT	Alien Higgs-3	Impinj Monza R6-P	Alien Higgs-3	Alien Higgs-3	Impinj Monza 4E	Monza R6-P	Impinj Monza M5	
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	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	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, exten- sible to 480-bit, 512- bit user memory, 64-bit TID	48-bit serialized TID, 496 EPC bits, 128-bit user memory	32 bits user memory, 128 bits EPC, 96 bits TID	48-bit serialized TID, 128 EPC bits	
Read range on metal [2W ERP]	Up to 20 ft (6 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)	Up to 65 ft (20 m)	Up to 39 ft (12 m)	Up to 26 ft (8 m)	Up to 16 ft (5 m)	Up to 13 ft (4 m)	Up to 4 ft (1.2 m)	
Read range off metal [2W ERP]	Limited	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)	Up to 39 ft (15 m)	Up to 20 ft (6 m)	Up to 13 ft (4 m)	Up to 13 ft (4 m)	Up to 3.3 ft (1 m)	Up to 4 ft (1.2 m)	
Case material	Engineering grade nylon polymer	Anti-UV Industry Grade Polymer	Polycarbonate	Polycarbonate	FR4	Anti-UV Industry Grade Polymer	Anti-UV Industry Grade Polymer	Anti-UV Industry Grade Polymer	Not applicable	Not applicable	Not applicable	
Mounting system	High performance adhesive	High performance adhesive/	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)	Rivet hole, ø 1/4" M6, adhesive (optional) Cable tie, Metal Insert (optional)	Rivet hole, ø 0.14 in (3.5 mm); adhesive (optional)	adhesive/Rivet hole, ø 0.14 in (3.5 mm); adhesive (optional)	High performance adhesive	High performance adhesive	High performance adhesive	
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 +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]	-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]	
Compression strength	166.8 psi (1150 kPa)	26.1 psi (180 kPa)	14.5 psi (100 kPa)	14.5 psi (100 kPa)	106 psi (731 kPa)	29 psi (200 kPa)	29 psi (200 kPa)	26.1 psi (180 kPa)	92 psi (634 kPa)	14 psi (97 kPa)	58 psi (400 kPa)	
IP classification	IP68	IP54	IP54	IP54	IP68	IP68	IP68	IP68	Not applicable	IP68	Not applicable	
Dimensions	1.25 x 0.51 x 0.20 in (31.7 x 12.8 x 4.8 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)	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)	4 x 1.5 x 0.04 in (101.6 x 38 x 0.98 mm)	2.8 x 0.75 x 0.04 in (58.5 x 19 x 1.1 mm)	1.77 x 0.22 x 0.03 in (45 x 5.6 x 0.86 mm)	
Weight	0.18 oz (5 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)	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)	Reel: 4.85 lbs (2.2 kg)	Reel: 2.64 lbs (1.2 kg)	Reel: 2.54 lbs (1.15 kg)	
Suggested applications	Tool tracking, WIP conveying equipment, IT/telecom management, instrument tracking, weapons tracking	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	Outdoor using, Vehicle chassis and trailer tracking, Unit Load Device identification, logistics management	Outdoor using, Vehicle chassis and Unit Load Device identification, logistics management	Unit Load Device identification, logistics management pallet tracking, RTI management, storage rack identification	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	

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