


Product Guide

	MICRO X-II Series				XS Series			
Series								
Product								
	Micro X-II	Micro X-II Paintshop	Micro X-II Autoclavable	Micro X-II Plus Automotive	Nano X- II	XS Dash On	XS Dot On	XS Dot Wedge
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)	902-928MHz(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
Memory configurati	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-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,
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 20 ft (6 m)	Up to 6.6 ft (2 m)	Up to 5 ft (1.5 m)	Up to 3.3 ft (1 m)
Read range off metal	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	High performance engineering polymer
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	Epoxy	Embeddable 
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)	-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)	-58°F to +428°F (-50°C to +220°C)
Compression strength	181 psi (1250 kPa)	181 psi (1250 kPa)	181 psi (1250 kPa)	725psi (5000 kPa)	166.8 psi (1150 kPa)	790 psi (5447kPa)	790 psi (5447kPa)	10,100psi (70 MPa)
IP classification	IP68	IP68	IP69K	IP68	IP68	IP68	IP68	IP68
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 36.3 x 7.5 mm)	1.25 x 0.51 x 0.20 in (31.7 x 12.8 x 4.8 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)
Weight	0.92 oz (26 g)	0.98 oz (28 g)	0.98 oz (28 g)	1.06 oz (30 g)	0.18 oz (5 g)	0.016 oz (0.44 g)	0.012 oz (0.34 g)	0.28 oz (8 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, WIP conveying equipment, IT/ telecom management, instrument tracking, 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

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 Global Frequency

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Product Guide

Series	PICO Series		ROSWELL Series		TRAK Series			
Product	Pico X II Plus Pico On Plus	Pico-iN Plus	Autoclavable Roswell Roswell	Xplorer Surface Xplorer Downhole	Versa Trak	Data Trak II	Global Trak	Slim Trak
Operating frequency	902-928 MHz (US) 866-868 MHz (EU)	902-928 MHz (US) 866-868 MHz (EU)	902-928 MHz (US) 865-868 MHz (EU)	902-928MHz (US) 865-868MHz (EU)	902-928MHz (US) 866-868MHz (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 4E	Impinj Monza 4QT	Alien Higgs-3
Memory configuration	96EPC bits, extendable to 480bits (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	96EPC bits, extendable 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 10 ft (3 m)	Up to 6.6 ft (2m) when embedded	Up to 16.4 ft (5 m)	Up to 5 ft (1.5m) when embedded	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 (2W ERP)	Limited	Limited	Limited	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)
Case material	Engineering grade nylon polymer/ Ceramic	Ceramic	Stainless steel/ Aluminum 6061-T6	Stainless steel	Anti-UV Industry Grade Polymer	Polycarbonate	Polycarbonate	FR4
Mounting system	High performance adhesive	Epoxy, embeddable	Welding, cable tie, rivet hole ø 0.19 in (ø 5 mm)	Embeddable	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) tethering hole	Adhesive (TESA 51972), epoxy (optional)
Operating temperature	-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)
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 +482°F (-40°C to +250°C)	-58°F to +482°F (-50°C to +250°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	174 psi (1200 kPa) / 170 psi (1176 kPa)	Packaging dependent	1145 psi (7900 kPa)/ 115 psi (793 kPa)	30,000 psi (206 MPa)	26.1 psi (180 kPa)	14.5 psi (100 kPa)	14.5 psi (100 kPa)	106 psi (731 kPa)
IP classification	IP68	IP68	IP68	IP69K	IP54	IP54	IP54	IP68
Dimensions	0.70 x 0.43 x 0.2 in (17.7 x 10.9 x 5 mm)/ 0.5 x 0.28 x 0.12 in (12.8 x 7.08 x 3.08 mm)	0.5 x 0.28 x 0.12 in (12.8 x 7.08 x 3.08 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)	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	0.07 oz (2 g) / 0.05oz (1.4g)	0.05 oz (1.4 g)	1.55 oz / 44 g / 0.74 oz / 21 g	0.89 oz (25.4 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	Tool tracking, weapon tracking, medical device management, instrument tracking	IT and laptop tracking, tool tracking, embedded bolt identification, weapons tracking	Surgical Trays Oil & Gas Valve Wellhead Management Food Processing Plants, Automotive Manufacturing	Downhole and Surface Drill Pipes, Sub-sea Oil Pipes, BOPs and Wellheads	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












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Product Guide

	TRAK OUTDOORS Series			METAL SKIN Series				
Series								
Product								
	Container Trak	Cargo Trak II	RTI Trak	Mercury Metal Skin	Platinum Metal Skin	Titanium Metal Skin	Gamma Label	Theta Inlay
Operating frequency	902-928MHz (US) 866-868MHz (EU)	902-928 MHz (US) 866-868 MHz (EU)	902-928 MHz (US) 866-868 MHz (EU)	860-960MHz(Global) 	902-928 MHz (US) 865-868MHz (EU)	902-928 MHz (US) 865-868MHz (EU)	860-960MHz(Global) 	860-960MHz(Global) 
IC type	Impinj Monza R6-P	Alien Higgs-3	Alien Higgs-3	Impinj Monza 4E	Monza R6-P	Impinj Monza M5	MB97R8050-AP15-ES	Alien Higgs-3
Memory configuration	128 EPC bits, 32-bit user memory, 48-bit TID; Max user memory 64-bit, 48 TID, 96 EPC bits	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	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	160-bit EPC, 176-bit serialized TID	96-bit EPC, 512-bit user memory, 64-bit serialized TID
Read range on metal (2W ERP)	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)	Limited	Limited
Read range off metal (2W ERP)	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)	Up to 9.8 ft (3 m)	Up to 29.5 ft (9 m)
Case material	Anti-UV Industry Grade Polymer	Anti-UV Industry Grade Polymer	Anti-UV Industry Grade Polymer	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Mounting system	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 (3.5mm); adhesive (optional)	High performance adhesive	High performance adhesive	High performance adhesive	High performance adhesive	Injection molding
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)	-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 +212°F (-40°C to +100°C)
Application 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)	-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 +446°F (-40°C to +230°C)
Compression strength	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)	14 psi (97 kPa)	92 psi (634 kPa)
IP classification	IP68	IP68	IP68	IP54	IP68	IP54	IP54	IP68
Dimensions	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)	4 x 1.5 x 0.03 in (101.6 x 38 x 0.76 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)	2.95 x 0.79 x 0.008/ 4.0 x 2.0 x 0.008 in (75 x 20 x 0.2/ 101.6 x 50.8 x 0.2 mm)	2.8 x 0.43 x 0.005 in (71 x 11 x 0.13 mm)
Weight	1.45 oz (41 g)	0.62 oz (17.8 g)	0.39 oz (11 g)	Reel: 4.85 lbs (2.2 kg)	Reel: 2.64 lbs (1.2 kg)	Reel: 2.54 lbs (1.15 kg)	Reel: 2.54 lbs (1.15 kg)	0.007 oz (0.2 g)
Suggested applications	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	Healthcare devices and equipment, Pharmaceutical & biotech processing equipment, Food	Inject Molding, Cable Joints, Logistics

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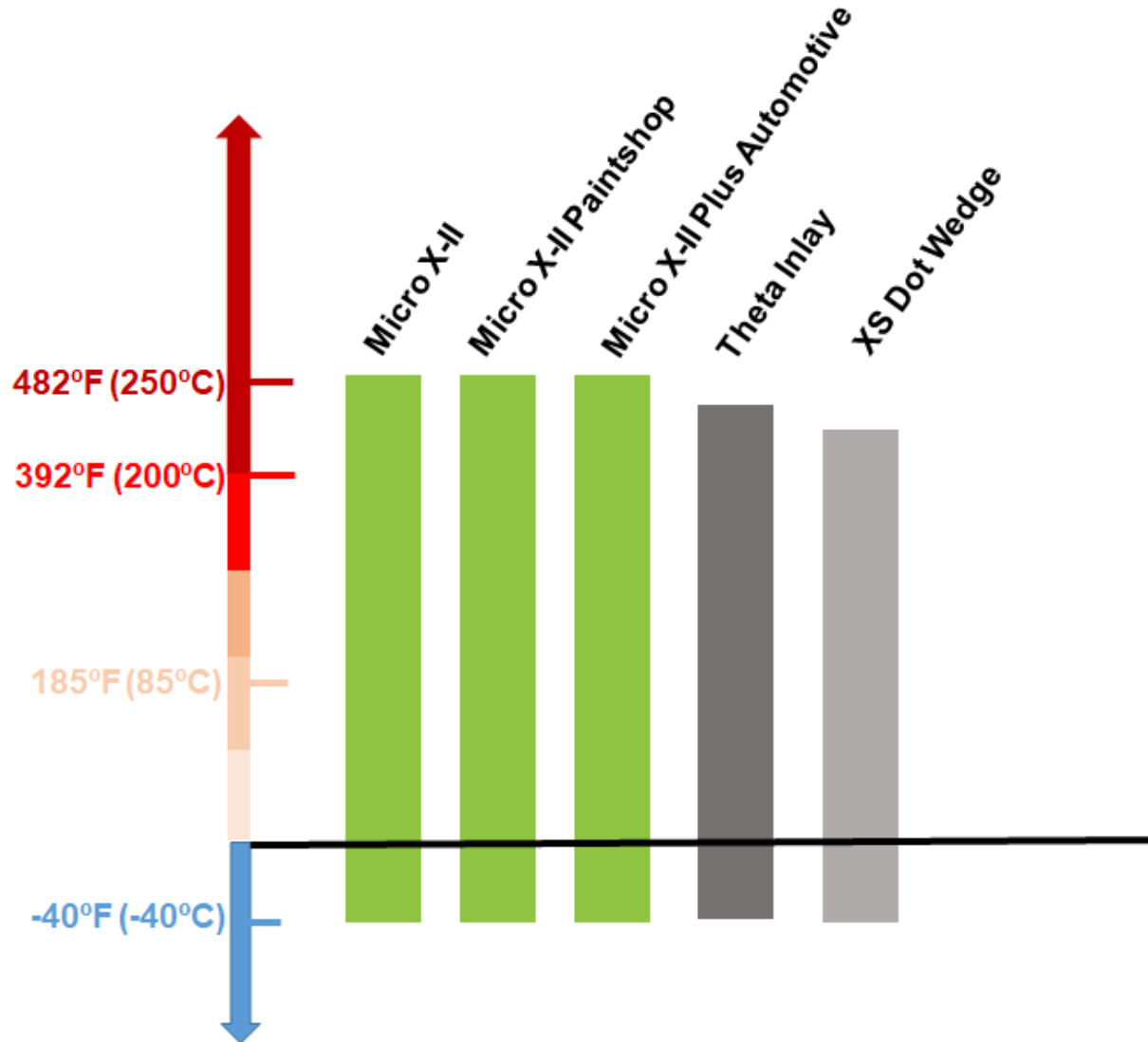
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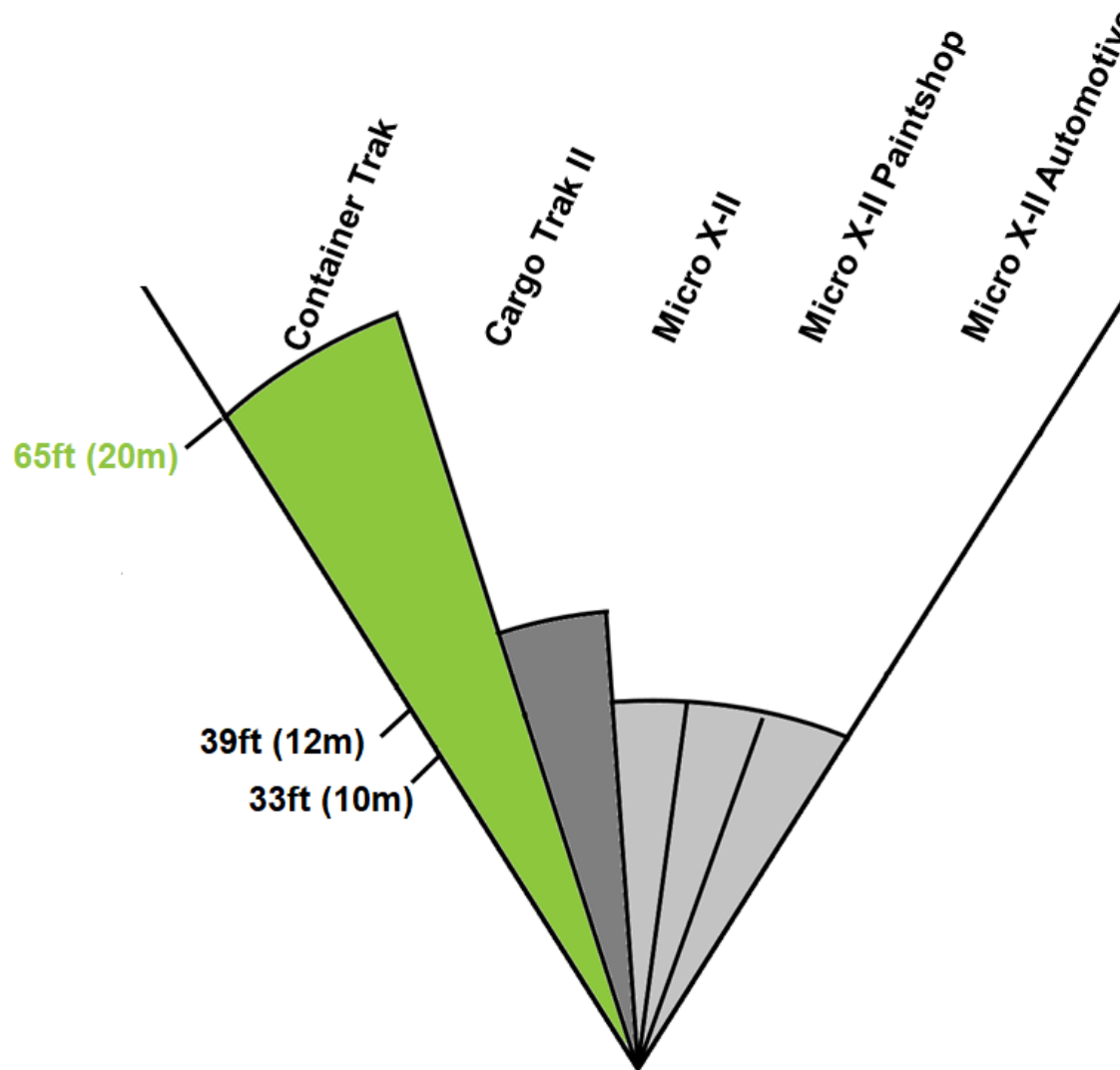
Xerafy High Temperature RFID Tags

Application temperature over 392°F (200°C)



Xerafy Ultra Long-Range RFID Tags

Read range is tested on metal with fixed reader (2W ERP)



Xerafy Small Footprint RFID Tags

