

Product Guide

 Embeddable
  Global Frequency
  High Temp
  Autoclavable

MICRO Series				XS Series			
Series							
Product	 MICRO Industrial	 MICRO Paint Shop	 MICRO Autoclavable	 Nano X-II HT	 XS Dash	 XS Dot	 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)	902-928MHz (US) 865-868 MHz(EU)
IC type	NXP UCODE 8	NXP UCODE 8	NXP UCODE 8	Alien Higgs-4	NXP UCODE 8	NXP UCODE 8	Alien Higgs-3
Memory configuratic	128 EPC bits, user memory (optional), 96 bits TID	128 EPC bits, user memory (optional), 96 bits TID	128 EPC bits, user memory (optional), 96 bits TID	128 EPC bits, 128-bit user memory 64-bit TID	128 EPC bits, user memory (optional), 96 bits TID	128 EPC bits, user memory (optional), 96 bits 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 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
Case material	Engineering grade nylon polymer	Engineering grade nylon polymer	Engineering grade nylon polymer, Silicone sealer	PTFE	Ceramic	Ceramic	High performance engineering polymer
Mounting system	Screws (Rivet hole, M3) Pop rivets (Max size 3.2mm) Industrial Adhesive (optional)	Screws (Rivet hole, M3) Pop rivets (Max size 3.2mm) Industrial Adhesive (optional)	Screws (Rivet hole, M3) Pop rivets (Max size 3.2mm)	Screws (Rivet hole, M3) 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 +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)
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 +302°F (-55°C to +200°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)	790 psi (5447kPa)	790 psi (5447kPa)	10,100psi (70 MPa)
I P classification	IP68	IP68	IP69K 	IP68	IP68	IP68	IP68
Dimensions	2.16 x 1.43 x 0.30 in (55x 36.2x 7.5 mm)	2.16 x 1.43 x 0.30 in (55 x 36.2x 7.5 mm)	2.16 x 1.43 x 0.30 in (55x 36.2x 7.5 mm)	1.65x 0.59 x 0.09 in (42.0 x 15.0 x 2.1 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)	0.92 oz (26 g)	0.92 oz (26 g)	0.08 oz (2.2 g)	0.016 oz (0.44 g)	0.012 oz (0.34 g)	0.28 oz (8 g)
Suggested applications	Work-In-Process High-Temp Production Automotive Assembly RTI Management	Paint Shop Skids Chemical Pre-Treatments Cataphoresis Coating High-Temp Drying Ovens Powder Coating	Autoclave Sterilization Surgical Trays Medical Devices Healthcare Equipment Chemical Cleaning	WIP conveying equipment,post-paint oven baking,High temperature environment	Hand Tools and Equipments Automated Tool Tracking Active FOD Prevention	Hand Tools and Equipments Automated Tool Tracking Active FOD Prevention	Onshore and Offshore pipes Heavy equipment and tools Automotive manufacturing Industrial molds

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Series	PICO Series			ROSWELL Series		TRAK Series			
Product	 Pico X-II Plus PICO On	 PICO In	 Nano X-II	 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) 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/ NXP UCODE8	Alien Higgs-3	NXP UCODE8	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, 64-bit TID, (512 bits user memory)/ 128 EPC bits, 96 bits TID, user memory (optional).	96 EPC bits, extendable to 480- bit, 512-bit user memory, 64-bit TID	128 EPC bits, user memory (optional), 96 bits 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 20 ft (6 m)	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	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	Engineering grade nylon polymer	Stainless steel/ Aluminum 6061-T6	Stainless steel	Anti-UV Industry Grade Polymer	Polycarbonate	Polycarbonate	FR4
Mounting system	High performance adhesive	Epoxy, embeddable	High performance adhesive	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)	-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 +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	166.8 psi (1150 kPa)	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	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 (12.8x 7.08 x 3.08 mm)	0.5 x 0.28 x 0.12 in (12.8 x 7.08 x 3.08 mm)	1.25 x 0.51 x 0.20 in (31.7 x 12.8 x 4.8 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)	1.98x0.67x0.21 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 0.51x0.16 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)	0.18 oz (5 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	Manufacturing Hand Tools and Equipments MRO Tool Tracking Military Equipments Tracking Warehouse Automation	Hand Tools and Equipments Oil Wells Equipments MRO Tool Tracking	MRO Tool Tracking Manufacturing WIP IT Asset Management	Sterilizable surgical trays Medical devices Oil & Gas Valve / Wellhead Management Food Processing Plants Automotive Manufacturing	Oil and Gas pipes management Heavy equipment in Mining High-pressure ovens in manufacturing	RTI Management Pallet Logistics Storage Rack Identification	Datacenters IT Asset Management Manufacturing WIP Automated Inventory	Global supply chain Logistics Datacenter servers E-commerce	MRO Tool Tracking IT Asset Management Military Asset & weapon Tracking

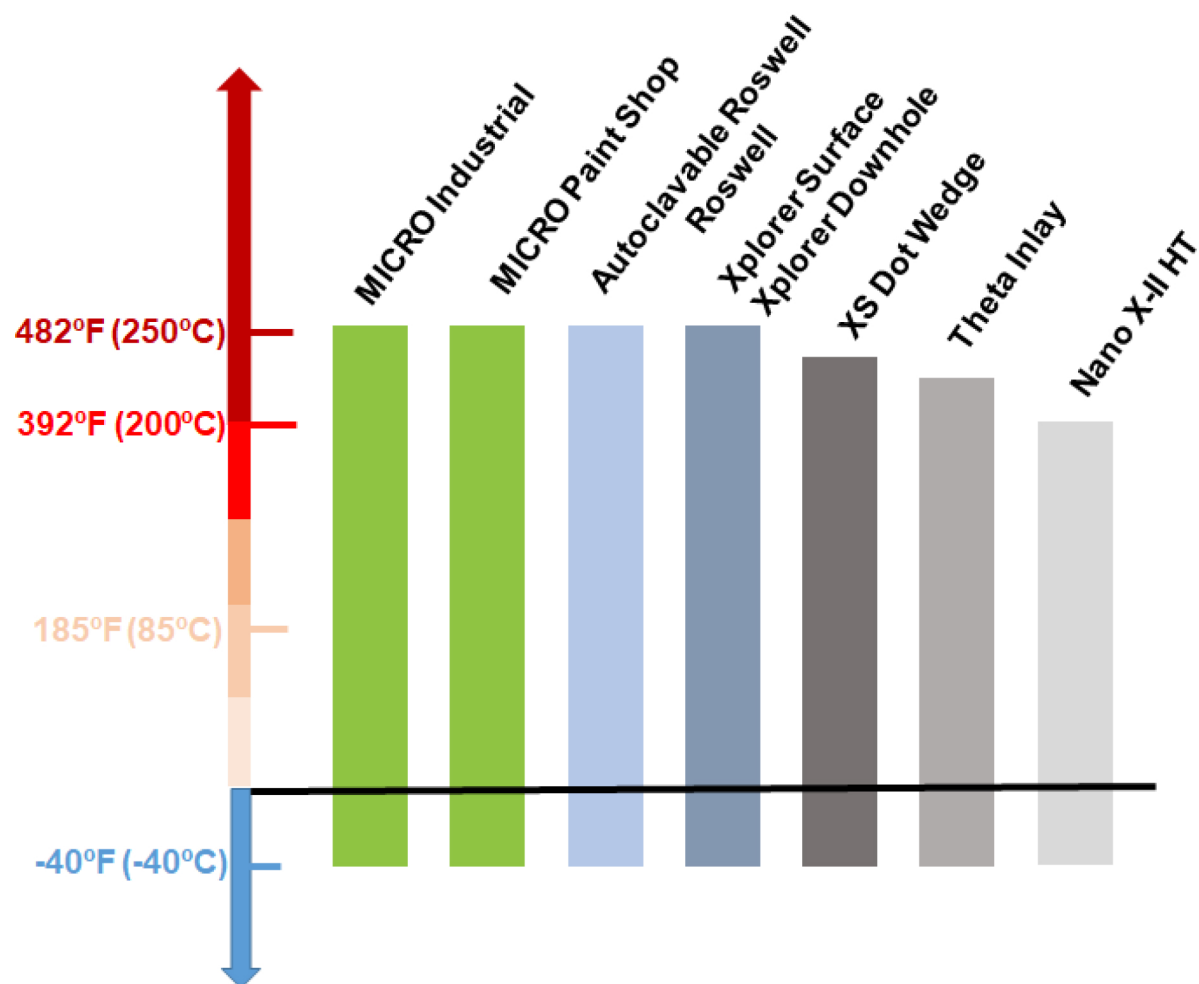
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OUTDOOR Series					METAL SKIN Series					
Series										
Product										
	Container Trak	Cargo Trak II	RTI Trak	Flex Trak	Mercury Metal Skin	Platinum Metal Skin	Delta Metal Skin	Titanium Metal Skin	Gamma Label	Theta Inlay
Operating frequency	902-928MHz (US) 866-868MHz (EU)	902-928 MHz (US) 866-868 MHz (EU)	902-928 MHz (US) 866-868 MHz (EU)	860-960MHz(Global)	860-960MHz(Global)	902-928 MHz (US) 865-868MHz (EU)	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	Alien Higgs-3	Impinj Monza 4E	Monza R6-P	Impinj 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	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	32 bits user memory, 128 bits EPC	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)	Limited	Up to 16 ft (5 m)	Up to 13 ft (4 m)	Up to 16.4 ft (5 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 24.6 ft (7.5 m)	Up to 13 ft (4 m)	Up to 3.3 ft (1 m)	Limited	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	TPU	Not applicable	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 (3.5 mm); adhesive (optional)	Cable tie	High performance adhesive	High performance adhesive	High performance adhesive	High performance adhesive	High performance adhesive	Injection molding
Operating temperature	-40°F to +158°F (-40°C to +70°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)	-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 +158°F (-40°C to +70°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)	-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)	725psi (5000 kPa)	92 psi (634 kPa)	14 psi (97 kPa)	92 psi (634 kPa)	58 psi (400 kPa)	14 psi (97 kPa)	92 psi (634 kPa)
IP classification	IP68	IP68	IP68	IP68	IP54	IP68	IP57	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)	3.54 x 0.7 x 0.16 in (90 x 18 x 4.0 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)	3.15 x 0.87 x 0.04 in (80 x 20 x 1.0 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)	0.28 oz (8 g)	Reel: 4.85lbs (2.2kg)	Reel: 2.64 lbs (1.2 kg)	Reel: 1.76 lbs (0.8 kg)	Reel: 2.54 lbs (1.15 kg)	Reel: 2.54 lbs (1.15 kg)	0.007 oz (0.2 g)
Suggested applications	Yard Management Production Logistics RTI Management Long-Distance Shipping	Freight Container Management Outdoors Assets Tracking Heavy Equipment Inspections RTI Management	RTI Management Production Logistics Yard Management Long-Distance Shipping	Outdoor using Global supply chain management RTI management logistics management Warehouse Automation	Product authentication IT asset and laptop tracking Global supply chain management Cylinder tracking Foil-based packaging tracking	Industrial Supply Chain RTI Management Warehouse Automation Automated Inventory	Product authentication Supply chain management Foil-based packaging tracking IT asset management	Product authentication IT asset and laptop tracking Radio and mobile equipment Foil-based packaging tracking	Healthcare devices and equipment Pharmaceutical & biotech processing equipment Food	Plastics Injection Molding RTI Automotive Components Hand Tools and Equipment Portable Power Equipment and Cables

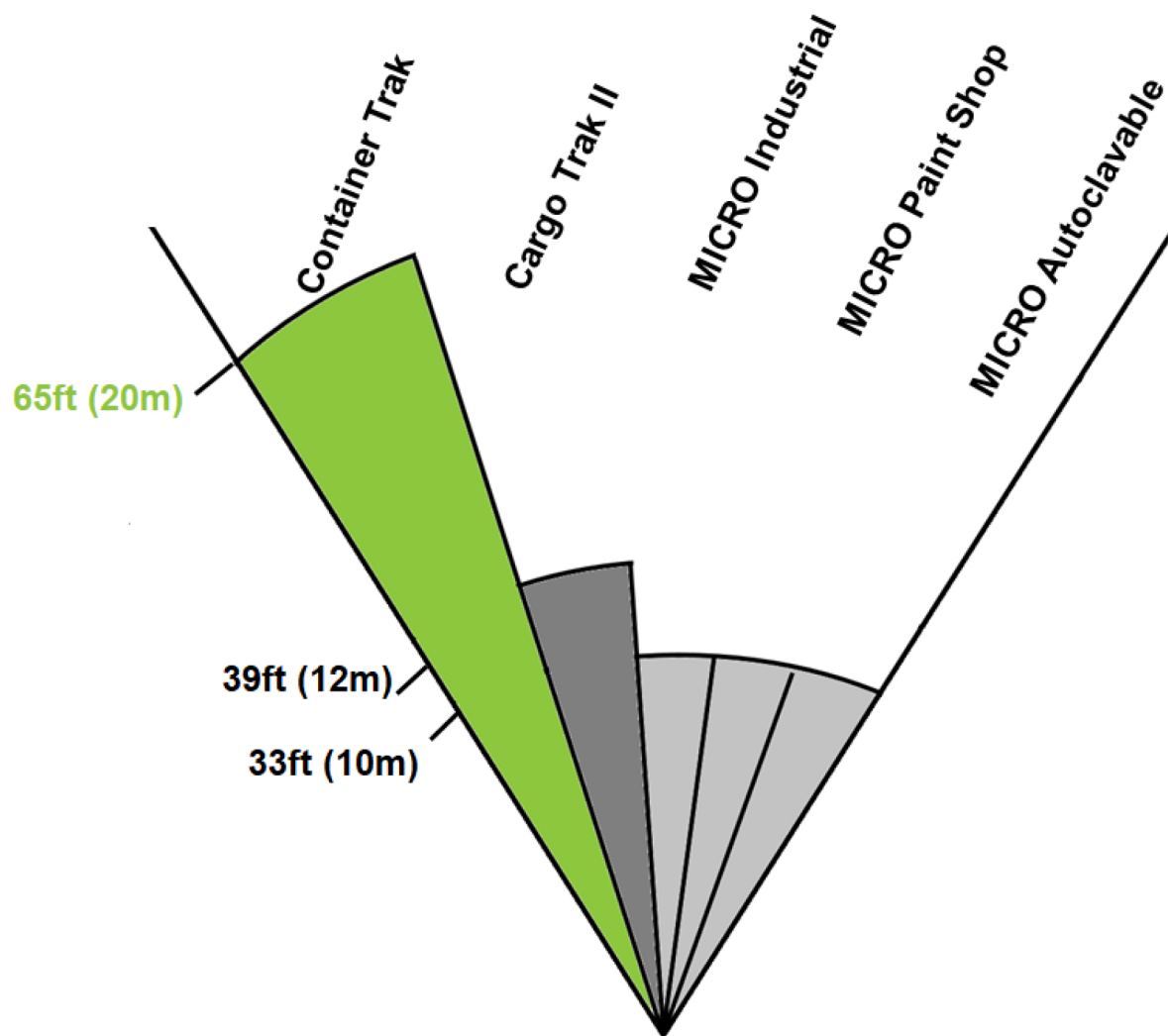
Xerafy High Temperature RFID Tags

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

