

The Ultimate Industrial RFID Product Guide

Your guide to finding the right RFID Tags, Labels, Inlays
and Sensors for your Industrial System, and more.

XERAFY

Find Your RFID Tags To Track Assets, Returnables, and Inventory: UHF, On Metal, Rugged, Small, High Temperatures, Embedded, Memory.

Passive RFID tags that deliver performance, reliability, and consistency at the service of specialized asset identification and tracking systems:

RUGGED

Benchmark-leading performance and reliability

MICRO - high temp



PICO - small



XS - world smallest



ROSWELL - ultra rugged



SKIN

Smart labels for enhanced supply chains

Metal Skin® - durable labels **XSKIN - specialty labels**



TRAK

Durability for returnable assets and inventory

TRAK - inventory



POD TRAK - returnable



TEX TRAK - laundry



OUTDOOR - long range



XPLATE TRAK - stampable



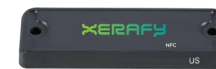
IOT

Advanced devices for real-time tracking and monitoring

XENSE - passive sensing



NFC - smart tracking



Tool Tracking



- Tool Control FOD
- Tool Inventory Management
- Tooling and Equipment
- MRO Parts Management
- MRO Inventory Management

Oil & Gas



- Drill Pipe Tracking and Lifecycle
- Downhole Tools Drill Bits
- Oilfield Casing Tubing (OCTG)
- Rigging and Lifting Equipment
- Pipeline and Valve Inspections
- LPG Cylinders

Healthcare



- Sterile Processing
- Loaner Systems
- Point-Of-Care Equipment
- Pharmacy Inventory
- Storeroom Supplies
- Scrubs & Linens

Manufacturing



- Paint Shop Automotive
- Hi-Temp Processes
- Injection Molding
- Industrial Molds Dies

Inventory



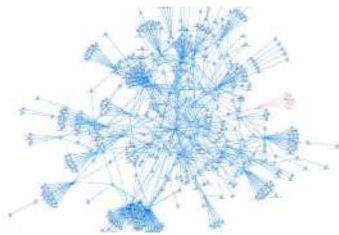
- Automated Warehouse
- Returnable Packaging Carriers
- Materials Management
- Work-In-Process

Logistics



- Returnable Transport Packaging
- Order Fulfillment
- Yard Management Systems
- Last-Mile Logistics

Supply Chains



- Consignment Inventory
- Source Tagging
- Cold Chain Monitoring

Data Centers



- Asset Management
- Inventory and Audit
- Infrastructure Management

IT Assets



- IT Equipment
- Inventory Scanners
- Laboratory Equipment

Utilities



- Waste Management
- Weapon Tracking
- Tower Monitoring
- Infrastructure Monitoring

Industry Certification and Compliance



CE Certification



ATEX Certification



ISO 9001:2015



ISO 14001:2015



Awards



Industry Alliance

Xerapy is a member of RAIN RFID .



Product Guide

▼ Embeddable
 🌐 Global Frequency
 ● High Temp
 ■ Autoclavable
 ■ User Memory
 + Long Range

Series	MICRO series - high temp					
Product	 MICRO Industrial	 MICRO Paint Shop	 MICRO Autoclave	 MICRO Medical	 MICRO Power	 MICRO Heat
Part Number (P/N)						
User memory version	X1130-US100-H9 (US) X1130-EU100-H9 (EU)	X1130-US130-H9 (US) X1130-EU130-H9 (EU)	X1130-US140-H9 (US) X1130-EU140-H9 (EU)	X0353-US100-U9 (US) X0353-EU100-U9 (EU)	X3130-US101-M750 (US) X3130-EU101-M750 (EU)	X1220-US050-H4 (US) X1220-EU050-H4 (EU)
Frequency	902-928 MHz (US) 865-868 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)	902-928 MHz (US) 865-868 MHz (EU)	902-928 MHz (US) 865-868 MHz (EU)
IC type	Alien Higgs 9	Alien Higgs 9	Alien Higgs 9	NXP UCODE 9	Impinj M750	Alien Higgs 4
Chip memory	48 bits TID ■ 96 bits EPC ■ 688 bits user memory	48 bits TID ■ 96 bits EPC ■ 688 bits user memory	48 bits TID ■ 96 bits EPC ■ 688 bits user memory	96 bits TID 96 bits EPC	96 bits TID 96 bits EPC 32 bits user memory	64 bits TID 128 bits EPC 128 bits user memory
Read range on metal (fixed)	Up to 32.81 ft (10 m) +	Up to 32.81 ft (10 m) +	Up to 32.81 ft (10 m) +	Up to 14.76 ft (4.50 m)	Up to 13.12 ft (4 m)	Up to 13.12 ft (4 m)
Read range off metal (fixed)	Limited	Limited	Limited	Up to 16.40 ft (5 m)	Limited	Limited
Material	Industry grade polymer 316L Stainless steel	Industry grade polymer 316L Stainless steel	Industry grade polymer 316L Stainless steel Silicone	Industry grade polymer Stainless steel	Industry grade polymer	High temperature polymer
Mounting systems	Pop rivets M3, Screws M3 Industrial adhesive (optional)	Pop rivets M3, Screws M3 Industrial adhesive (optional)	Pop rivets M3, Screws M3	Pop rivets M3, Screws M3 Cable ties	Pop rivets M3, Screws M3 Cable ties Industrial adhesive (optional)	Screws M3, Cable ties Industrial adhesive
Operational 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)
Survival 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 (-40°C to +150°C)	-40°F to +302°F (-40°C to +150°C)	-67°F to +419°F (-55°C to +215°C) ●
Compression strength	181 psi (1,250 kPa)	181 psi (1,250 kPa)	181 psi (1,250 kPa)		181 psi (1,250 kPa)	355 psi (2,450 kPa)
IP rating	IP68	IP68	IP69K ■	IP69K ■	IP68	IP68
Dimensions	2.16 x 1.43 x 0.30 in (55x 36.20 x 7.50 mm)	2.16 x 1.43 x 0.30 in (55 x 36.20 x 7.50 mm)	2.16 x 1.43 x 0.30 in (55x 36.20 x 7.50 mm)	3.52x 0.51 x 0.24 in (89.50 x 13 x 6.10 mm)	1.25x0.43x0.24 in (32 x 10.80 x 6 mm)	1.65x 0.59 x 0.09 in (42 x 15 x 2.10 mm)
Weight	0.92 oz (26 g)	0.92 oz (26 g)	0.92 oz (26 g)	0.32 oz (9.20 g)	0.11 oz (3 g)	0.08 oz (2.20 g)
Applications	High temperature production Work in process 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	Surgical tray management Medical device tracking	Power tool tracking Automotive Post-Paint processes Construction tools Audio-Video equipment Rental fleet management RTI management	High temperature production Work in process RTI management

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Series	PICO series- small							
Product	PICO On	PICO Off	PICO Mini 100	PICO Mini 150	PICO Mini 300	PICO In	PICO Plus	NANO Plus
Part Number (P/N)			X1035-USP00-U8 (US) X1035-EUP00-U8 (EU)	X1204-USP00-U8 (US) X1204-EUP00-U8 (EU)	X1307-USP00-U8 (US) X1307-EUP00-U8 (EU)			
User memory version	X3110-US001-H9 (US) X3110-EU001-H9 (EU)	X3310-US001-H9 (US) X3310-EU001-H9 (EU)				X3210-US000-H9 (US) X3210-EU000-H9 (EU)	X3110-US101-H9 (US) X3110-EU101-H9 (EU)	X1120-US101-H9 (US) X1120-EU101-H9 (EU)
Frequency	902-928 MHz (US) 865-868 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)	902-928 MHz (US) 865-868 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 9	Alien Higgs 9	NXP Ucode 8	NXP Ucode 8	NXP Ucode 8	Alien Higgs 9	Alien Higgs 9	Alien Higgs 9
Chip memory	48 bits TID ■ 96 bits EPC 688 bits user memory	48 bits TID ■ 96 bits EPC 688 bits user memory	96 bits TID 128 bits EPC	96 bits TID 128 bits EPC	96 bits TID 128 bits EPC	48 bits TID ■ 96 bits EPC 688 bits user memory	48 bits TID ■ 96 bits EPC 688 bits user memory	48 bits TID ■ 96 bits EPC 688 bits user memory
Read range on metal (fixed)	Up to 9.84 ft (3 m)	Limited	Up to 1.64 ft (0.5 m)	Up to 9.84 ft (3 m)	Up to 13.12 ft (4 m)	Up to 6.56 ft (2m) when embedded	Up to 9.84 ft (3 m)	Up to 19.69 ft (6 m)
Read range off metal (fixed)	Limited	Up to 6.52 ft (2 m)	Limited	Limited	Limited	Limited	Limited	Limited
Material	Ceramic	Ceramic	FR4 (PCB)	FR4 (PCB)	FR4 (PCB)	Ceramic	Industry grade polymer	Industry grade polymer
Mounting systems	Industrial adhesive	Industrial adhesive	Epoxy	Epoxy	Epoxy	Epoxy, embedded ▼	Industrial adhesive	Industrial adhesive
Operational 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 +185°F (-40°C to +85°C)
Survival temperature	-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 +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)
Compression strength	170 psi (1,176 kPa)	170 psi (1,176 kPa)	174 psi (1,200 kPa)	174 psi (1,200 kPa)	174 psi (1,200 kPa)	Packaging dependent	174 psi (1,200 kPa)	167 psi (1,150 kPa)
IP rating	IP68	IP68	IP68	IP68	IP68	IP68	IP68	IP68
Dimensions	0.50 x 0.28 x 0.12 in (12.80 x 7.08 x 3.08 mm)	0.50 x 0.28 x 0.12 in (12.80 x 7.08 x 3.08 mm)	0.39 x 0.14 x 0.04 in (10 x 3.50 x 1 mm)	0.47 x 0.16 x 0.06 in (12 x 4 x 1.50 mm)	0.51 x 0.28 x 0.12 in (13 x 7 x 3 mm)	0.50 x 0.28 x 0.12 in (12.80 x 7.08 x 3.08 mm)	0.70 x 0.43 x 0.20 in (17.70 x 10.90 x 5 mm)	1.25 x 0.51 x 0.20 in (31.70 x 12.80 x 4.97 mm)
Weight	0.05 oz (1.40 g)	0.05 oz (1.40 g)	0.004 oz (0.10 g)	0.007 oz (0.20 g)	0.030 oz (0.70 g)	0.05 oz (1.40 g)	0.07 oz (2 g)	0.18 oz (5 g)
Applications	Hand tools for manufacturing, aerospace, railways, nuclear, military, Oil & Gas Weapon management Oilfield equipment Data centers	Hand tools tracking Scanners and readers Electronic devices IT asset management	Hand tools for manufacturing, aerospace, railways, nuclear, military, Oil & Gas Weapon management Oilfield equipment Data centers	Hand tools for manufacturing, aerospace, railways, nuclear, military, Oil & Gas Weapon management Oilfield equipment Data centers	Hand tools for manufacturing, aerospace, railways, nuclear, military, Oil & Gas Weapon management Oilfield equipment Data centers	Hand tools and equipments Oil wells equipments Injection molding	Manufacturing hand tools and equipments Construction tool tracking Military equipments tracking	MRO tool tracking Manufacturing WIP IT asset management

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Series	XS series - world smallest			ROSWELL series - ultra rugged			
Product	XS Dash	XS Dot	XS Wedge	ROSWELL Autoclavable	ROSWELL	XPLORER Surface	XPLORER Downhole
Part Number (P/N)	X4101-US000-H9 (US) X4101-EU000-H9 (EU)	X4102-US000-H9 (US) X4102-EU000-H9 (EU)	X4202-US100-H9 (US) X4202-EU100-H9 (EU)	X1114-US143-H9 (US) X1114-EU143-H9 (EU)	X1114-US101-H3 (US) X1114-EU101-H3 (EU)	X1115-US111-H3 (US) X1115-EU111-H3 (EU)	X1115-US101-H3 (US) X1115-EU101-H3 (EU)
User memory version							
Frequency	902-928 MHz (US) 865-868 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)	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 9	Alien Higgs 9	Alien Higgs 9	Alien Higgs 9	Alien Higgs 3	Alien Higgs 3	Alien Higgs 3
Chip memory	48 bits TID 96 bits EPC 688 bits user memory	48 bits TID 96 bits EPC 688 bits user memory	48 bits TID 96 bits EPC 688 bits user memory	48 bits TID 96 bits EPC 688 bits user memory	64 bits TID 96/480 bits EPC 512 bits user memory	64 bits TID 96/480 bits EPC 512 bits user memory	64 bits TID 96/480 bits EPC 512 bits user memory
Read range on metal (fixed)	Up to 6.56 ft (2 m)	Up to 4.92 ft (1.50 m)	Up to 3.28 ft (1 m)	Up to 16.40 ft (5 m)	Up to 16.40 ft (5 m)	Up to 4.92 ft (1.5 m) when embedded	Up to 4.92 ft (1.50 m) when embedded
Read range off metal (fixed)	Limited	Limited	Limited	Limited	Limited	Limited	Limited
Material	Ceramic	Ceramic	Industry grade polymer	Stainless steel, High-performance engineered polymer	Aluminum, High-performance engineered polymer	Stainless steel 316L, High-performance engineered polymer	Stainless steel 316L, High-performance engineered polymer
Mounting systems	Epoxy	Epoxy	Press fit, embedded ▼	Welding, Rivets M4, Screws M4, Cable ties	Welding, Rivets M4, Screws M4, Cable ties	Snap in, Embedded ▼	Snap in, Embedded ▼
Operational 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)
Survival temperature	-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) ●	-40°F to +482°F (-40°C to +250°C) ●	-58°F to +482°F (-50°C to +250°C) ●	-58°F to +482°F (-50°C to +250°C) ●
Compression strength	790 psi (5,447 kPa)	790 psi (5,447 kPa)	10,100psi (70 MPa)	1,145 psi (7,900 kPa)	115 psi (793 kPa)	< 13,000 psi (89 MPa)	< 13,000 psi (89 MPa)
IP rating	IP68	IP68	IP68	IP68, IP69K ■	IP68	IP68, IP69K	IP68, IP69K
Dimensions	0.48x0.12x0.09 in (12.30 x 3 x 2.20 mm)	ø 0.24 x 0.10 in (ø 6 x 2.50 mm)	ø 0.41 x 0.18 in (ø 10.30 x 4.60 mm)	1.89 x 1.10 x 0.53 in (48 x 28 x 13.50 mm)	1.89 x 1.10 x 0.53 in (48 x 28 x 13.50 mm)	ø 1.11 x 0.33 in (ø 28.30 x 8.50 mm)	ø 1.11 x 0.33 in (ø 28.30 x 8.50 mm)
Weight	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 (25.40 g)	0.89 oz (25.40 g)
Applications	Hand tools and equipments MRO tool control Weapon management	Hand tools and equipments MRO tool control Weapon management	Onshore and offshore pipes MRO equipment and tools Automotive manufacturing Industrial molds	Sterilizable surgical trays Medical devices Oil & Gas valve/wellhead management Food processing plants Automotive manufacturing	Oil & Gas valve / wellhead management Food processing plants Automotive manufacturing	Yard management for Oil and Gas pipes Pipe maintenance Heavy equipment in mining Building sites in construction High-Pressure ovens in manufacturing	Onshore and offshore oil pipes management Downhole assets tracking

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Series	TRAK series - inventory				
Product	Circular TRAK	Versa TRAK	Data TRAK II	Global TRAK	Slim TRAK
Part Number (P/N)					
User memory version	X0553-US170-R6P (US) X0553-EU170-R6P (EU)	X0350-GL011-M750 (Global)	X0330-GL021-M4QT (Global)	X0340-GL021-M4QT (Global)	X0330-GL001-H9 (Global)
Frequency	902-928 MHz (US) 865-868 MHz (EU)	860-960 MHz (Global)	860-960 MHz (Global)	860-960 MHz (Global)	860-960 MHz (Global)
IC type	Impinj Monza R6-P	Impinj M750	Impinj M4QT	Impinj M4QT	Alien Higgs 9
Chip memory	48 bits TID 128/96 bits EPC 32/64 bits user memory	96 bits TID 96 bits EPC 32 bits user memory	32 bits TID 128 bits EPC 512 bits user memory	32 bits TID 128 bits EPC 512 bits user memory	96 bits TID 48 bits EPC 688 bits user memory
Read range on metal (fixed)	Up to 7.55 ft (2.30 m)	Up to 29.53 ft (9 m)	Up to 8.20 ft (2.50 m)	Up to 8.20 ft (2.50 m)	Up to 6.56 ft (2 m)
Read range off metal (fixed)	Up to 4.27 ft (1.30 m)	Up to 9.84 ft (3 m)	Up to 5.91 ft (1.80 m)	Up to 5.91 ft (1.80 m)	Up to 4.92 ft (1.5 m)
Material	Food grade silicone	Industry grade polymer	Industry grade polymer	Industry grade polymer	High temperature polymer
Mounting systems	Food grade silicone glue	Industrial adhesive Cable ties (optional)	Cable ties Industrial adhesive	Cable ties Industrial adhesive	Industrial adhesive
Operational 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)
Survival temperature	-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 +302°F (-40°C to +150°C)
Compression strength	145 psi (1 MPa)	26.1 psi (180 kPa)	14.5 psi (100 kPa)	14.5 psi (100 kPa)	106 psi (731 kPa)
IP rating	IP68	IP68	IP68	IP68	IP68
Dimensions	ø 0.98 x 0.14 in (ø 25 x 3.50 mm)	1.98 x 0.67 x 0.21 in (50.30 x 17 x 5.30 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 0.23 x 0.05 in (56.50 x 5.95 x 1.30 mm)
Weight	0.08 oz (2.20 g)	0.11 oz (3 g)	0.08 oz (2.40 g)	0.09 oz (2.40 g)	0.04 oz (1 g)
Applications	Hospitality and food industry Reusable containers Metal equipment	Returnable transport item (RTI) management Pallet logistics Storage rack identification	Data centers 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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Series	POD TRAK series - returnable			OUTDOOR series - long range			
Product	POD TRAK 115	POD TRAK 85	POD TRAK 60	Container OUTDOOR	Cargo OUTDOOR	RTI OUTDOOR	Flex OUTDOOR
Part Number (P/N)	X1113-GLC01-U9 (Global)	X8522-GLC00-U9 (Global)	X6020-GLC01-U9 (Global)				
User memory version				X0361-US100-M830 (US) X0361-EU100-M830 (EU)	X03A3-US100-M750 (US) X03A3-EU100-M750 (EU)	X0352-US100-U9xe (US) X0352-EU100-U9xe (EU)	X0370-GL100-H3 (Global)
Frequency	860-960 MHz(Global)	860-960 MHz(Global)	860-960 MHz(Global)	902-928 MHz (US) 865-868 MHz (EU)	902-928MHz (US) 865-868MHz (EU)	902-928 MHz (US) 865-868 MHz (EU)	860-960 MHz(Global)
IC type	NXP UCODE 9	NXP UCODE 9	NXP UCODE 9	Impinj M830	Impinj M750	NXP UCODE 9xe	Alien Higgs 3
Chip memory	96 bits TID 96 bits EPC	96 bits TID 96 bits EPC	96 bits TID 96 bits EPC	96 bits TID 128 bits EPC	96 bits TID 96 bits EPC 32 bits user memory	96 bits TID 128 bits EPC	64 bits TID 96/480 bits EPC 512 bits user memory
Read range on metal (fixed)	Limited	Limited	Limited	Up to 124.67 ft (38 m)	Up to 39.37 ft (12 m)	Up to 55.77 ft (17 m) Up to 32.81 ft (10 m) on gas cylinder	Limited
Read range off metal (fixed)	Up to 55.77 ft (17 m)	Up to 32.81 ft (10 m)	Up to 19.69 ft (6 m)	Up to 82.02 ft (25 m)	Up to 19.69 ft (6 m)	Up to 26.25 ft (8 m)	Up to 24.61 ft (7.50 m)
Material	PVC	PVC	PVC	InAutoclavableindustry grade polymer	Industry grade polymer Stainless steel	Anti-UV industry grade polymer	High-Elasticity Polymer
Mounting systems	Rivets, Screws, Zip ties Industrial adhesive	Rivets, Screws, Zip ties Industrial adhesive	Rivets, Screws, Zip ties Industrial adhesive	Rivets M6, Screws M6, Zip ties, Cable ties, Industrial adhesive (optional)	Rivets M3, Screws M3, Zip ties, Cable ties, Industrial adhesive (optional)	Rivets M3, Screws M3, Zip ties, Cable ties, Industrial adhesive (optional)	Zip ties, Cable ties Industrial adhesive (optional)
Operational temperature	-40°F to +131°F (-40°C to +55°C)	-40°F to +131°F (-40°C to +55°C)	-40°F to +131°F (-40°C to +55°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)
Survival temperature	-40°F to +158°F (-40°C to +70°C)	-40°F to +158°F (-40°C to +70°C)	-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 +185°F (-40°C to +85°C)	-40°F to +212°F (-40°C to +100°C)
Compression strength	-	-	-	29 psi (200 kPa)	29 psi (200 kPa)	26 psi (180 kPa)	213 psi (1,470 kPa)
IP rating	IP68	IP68	IP68	IP68	IP68	IP68	IP68
Dimensions	4.53 x 0.51 x 0.03 in (115 x 13 x 0.88 mm)	3.35 x 0.87 x 0.03 in (85 x 22 x 0.88 mm)	2.36 x 0.79 x 0.03 in (60 x 20 x 0.88 mm)	5.46 x 1.65 x 0.47 in (139 x 42.20 x 12 mm)	3.94 x 1.02 x 0.30 in (100 x 26 x 8.90 mm)	2.88 x 0.90 x 0.34 in (73.30 x 22.80 x 8.65 mm)	3.54 x 0.71 x 0.16 in (90 x 18 x 4 mm)
Weight	0.10 oz (2.80 g)	0.10 oz (2.80 g)	0.08 oz (2.40 g)	1.76 oz (50 g)	0.62 oz (17.80 g)	0.39 oz (11 g)	0.28 oz (8 g)
Applications	Returnable packaging: bins, crates, and pallets Transport assets Totes and containers	Returnable packaging: bins, crates, and pallets Transport assets Totes and containers	Returnable packaging: bins, crates, and pallets Transport assets Totes and containers	Yard management Production logistics RTI management Long-distance shipping	RTI inventory Transportation and logistics Yard management Construction tools	RTI management LPG and gas cylinder Production logistics Yard management Long-distance shipping	Transportation and logistics Yard management RTI inventory

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Series	TEX TRAK series - laundry			XPLATE series - stampable
Product	 TEX 70x15	 TEX 50x12	 TEX 55x12 Silicone	 XPLATE
Part Number (P/N) User memory version	X7015-GL010-U8 (Global, Sew) X7015-GL011-U8 (Global, Heat-seal)	X5012-GL010-U8 (Global, Sew) X5012-GL011-U8 (Global, Heat-seal)	X5512-GL070-U9 (Global)	X8001-US100-M750 (aluminum) X8001-EU100-M750 (aluminum) X8002-US100-M750 (stainless steel) X8002-EU100-M750 (stainless steel)
Frequency	860-960 MHz (Global)	860-960 MHz (Global)	860-960 MHz (Global)	902-928 MHz (US) 865-868 MHz (EU)
IC type	NXP UCODE 8	NXP UCODE 8	NXP UCODE 9	Impinj M750
Chip memory	96 bits TID 128 bits EPC	96 bits TID 128 bits EPC	96 bits TID 96 bits EPC	96 bits TID 96 bits EPC 32 bits user memory
Read range on metal (fixed)	Limited	Limited	Limited	Up to 32.81 ft (10 m)
Read range off metal (fixed)	Up to 39.37 ft (12 m)	Up to 21.33 ft (6.50 m)	Up to 19.69 ft (6 m)	Up to 19.69 ft (6 m)
Material	Textile	Textile	Silicone	Industry grade polymer Aluminum or stainless steel plate
Mounting systems	Sew or heat-seal based on specific requirements, with different product P/N selections	Sew or heat-seal based on specific requirements, with different product P/N selections	Sew	Pop rivets (metal plate M3) Screw M3 Welding, Adhesives (optional)
Operational temperature	-4°F to +185°F (-20°C to +85°C)	-4°F to +185°F (-20°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)
Survival temperature	-40°F to +230°F (-40°C to +110°C)	-40°F to +230°F (-40°C to +110°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)
Compression strength	35.53 psi (245 kPa)	35.53 psi (245 kPa)	71.07 psi (490 kPa)	181 psi (1,250 kPa)
IP rating	IP68	IP68	IP68	IP68
Dimensions	2.76 x 0.59 x 0.03 in (70 x 15 x 0.85 mm)	1.97 x 0.47 x 0.03 in (50 x 12 x 0.85 mm)	2.17 x 0.47 x 0.10 in (55 x 12 x 2.50 mm)	3.35 x 2.31 x 0.61 in (85 x 59.30 x 15.40 mm)
Weight	1000pcs/bag: 15.17 oz (0.43 kg)	1000pcs/bag: 5.29 oz (0.15 kg)	0.07 oz (1.99 g)	0.42 oz (11.80 g)
Applications	Medical scrubs Hospital linens Hotel linens Uniforms Rental costumes	Medical scrubs Hospital linens Hotel linens Uniforms Rental costumes	Medical scrubs Hospital linens Hotel linens Uniforms Rental costumes	Tooling machinery Manufacturing equipment Shipping container Construction equipment Utilities

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Series	Metal Skin® series - durable labels					
Product						
	Metal Skin® Mercury	Metal Skin® Mercury R6P	Metal Skin® Mercury 86 Max	Metal Skin® Mercury 95 Max	Metal Skin® Delta	Metal Skin® Delta U8
Part Number (P/N)	X51A0-US100-U9 (US) X51A0-EU100-U9 (EU)	X1040-US011-R6P (US) X1040-EU011-R6P (EU)	X8654-US011-R6P (US) X8654-EU011-R6P (EU)	X9522-US011-U8 (US) X9522-EU011-U8 (EU)	X8020-US100-R6P (US) X8020-EU100-R6P (EU)	X8040-US011-U8 (US) X8040-EU011-U8 (EU)
Frequency	902-928 MHz (US) 865-868 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)	902-928 MHz (US) 865-868 MHz (EU)	902-928 MHz (US) 865-868 MHz (EU)
IC type	NXP UCODE 9	Impinj Monza R6-P	Impinj Monza R6-P	NXP UCODE 8	Impinj Monza R6-P	NXP UCODE 8
Chip memory	96 bits TID 96 bits EPC	48 bits TID 128/96 bits EPC 32/64 bits user memory	48 bits TID 128/96 bits EPC 32/64 bits user memory	96 bits TID 128 bits EPC	48 bits TID 128/96 bits EPC 32/64 bits user memory	96 bits TID 128 bits EPC
Read range on metal (fixed)	Up to 26.25 ft (8 m)	Up to 26.25 ft (8 m)	Up to 62.34 ft (19 m) +	Up to 52.49 ft (16 m) +	Up to 14.76 ft (4.50 m)	Up to 36.09 ft (11 m) +
Read range off metal (fixed)	Up to 19.69 ft (6 m)	Limited	Up to 45.93 ft (14 m) +	Limited	Limited	Up to 19.69 ft (6 m)
Material	White thermal transfer face stock	White thermal transfer face stock	White thermal transfer face stock	White thermal transfer face stock	White thermal transfer face stock	White thermal transfer face stock
Mounting systems	Industrial adhesive	Industrial adhesive	Industrial adhesive	Industrial adhesive	Industrial adhesive	Industrial adhesive
Operational temperatures	-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)
Survival temperatures	-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	92 psi (634 kPa)	-	-	-	355 psi (2,450 kPa)	-
IP rating	IP68	IP68	IP68	IP68	IP68	IP68
Dimensions	4 x 1.50 x 0.04 in (101.60 x 38 x 1 mm)	3.94 x 1.57 x 0.04 in (100 x 40 x 1 mm)	3.39 x 2.13 x 0.05 in (86 x 54 x 1.25 mm)	3.74 x 0.87 x 0.04 in (95 x 22 x 1.25 mm)	3.15 x 0.79 x 0.04 in (80 x 20 x 1 mm)	3.15 x 1.57 x 0.04 in (80 x 40 x 1 mm)
Weight	Reel: 1.98lbs (0.90 kg)	Reel: 2.65lbs (1.20 kg)	Reel: 1.65lbs (0.75 kg)	Reel: 2.20lbs (1 kg)	Reel: 1.76 lbs (0.80 kg)	Reel: 1.76 lbs (0.80 kg)
Applications	Global supply chain Logistics Datacenter servers E-commerce	Global supply chain Logistics Datacenter servers E-commerce	Reusable packaging and containers Global supply chain Logistics WIP inventory	Reusable packaging and containers Global supply chain Logistics WIP inventory	Data centers IT asset management Manufacturing WIP Automated inventory	Data centers IT asset management Manufacturing WIP Automated inventory

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Series	Metal Skin® series - durable labels						
Product	 Metal Skin® Platinum	 Metal Skin® Platinum R6P	 Metal Skin® Platinum 55 Universal	 Metal Skin® Platinum 60 Max	 Metal Skin® Platinum 60 Flag	 Metal Skin® Platinum 60 Tamper	 Metal Skin® Platinum 64 Slim
Part Number (P/N)	X50A3-US011-U9 (US) X50A3-EU011-U9 (EU)	X6025-US011-R6P (US) X6025-EU011-R6P (EU)	X5515-US011-U8 (US) X5515-EU011-U8 (EU)	X6025-US011-U8 (US) X6025-EU011-U8 (EU)	X6921-GL011-U8 (Global)	X6025-UST11-U9 (US) X6025-EUT11-U9 (EU)	X6406-US011-U8 (US) X6406-EU011-U8 (EU)
Frequency	902-928 MHz(US) 865-868 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)	860-960 MHz (Global)	902-928 MHz(US) 865-868 MHz (EU)	902-928 MHz(US) 865-868 MHz (EU)
IC type	NXP UCODE 9	Impinj Monza R6-P	NXP UCODE 8	NXP UCODE 8	NXP UCODE 8	NXP UCODE 9	NXP UCODE 8
Chip memory	96 bits TID 96 bits EPC	48 bits TID 128/96 bits EPC 32/64 bits user memory	96 bits TID 128 bits EPC	96 bits TID 128 bits EPC	96 bits TID 128 bits EPC	96 bits TID 96 bits EPC	96 bits TID 128 bits EPC
Read range on metal (fixed)	Up to 16.40 ft (5 m)	Up to 16.40 ft (5 m)	Up to 24.28 ft (7.40 m)	Up to 31.17 ft (9.50 m)	Limited	Up to 18.04 ft (5.50 m)	Up to 13.12 ft (4 m)
Read range off metal (fixed)	Up to 6.56 ft (2 m)	Up to 6.56 ft (2 m)	Up to 11.48 ft (3.50 m)	Up to 6.56 ft (2 m)	Up to 22.97 ft (7 m) on liquid	Limited	Up to 14.76 ft (4.5 m) on liquid
Material	White thermal transfer face stock	White thermal transfer face stock	White thermal transfer face stock	White thermal transfer face stock	White thermal transfer face stock	White thermal transfer face stock	White thermal transfer face stock
Mounting systems	Industrial adhesive	Industrial adhesive	Industrial adhesive	Industrial adhesive	Industrial adhesive	Industrial adhesive	Industrial adhesive
Operational temperatures	-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)
Survival temperatures	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +248°F (-40°C to +120°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	14 psi (97 kPa)	-	-	-	-	-	-
IP rating	IP68	IP68	IP68	IP68	IP68	IP68	IP68
Dimensions	2.30 x 0.75 x 0.04 in (58.50 x 19 x 1 mm)	2.36 x 0.98 x 0.04 in (60 x 25 x 1 mm)	2.17 x 0.59 x 0.05 in (55 x 15 x 1.25 mm)	2.36 x 0.98 x 0.04 in (60 x 25 x 1 mm)	2.30 x 0.83 x 0.04 in (58.50 x 21 x 1 mm)	2.36 x 0.98 x 0.05 in (60 x 25 x 1.25 mm)	2.52 x 0.24 x 0.04 in (64 x 6 x 1 mm)
Weight	Reel: 1.32 lbs (0.60 kg)	Reel: 1.76 lbs (0.80 kg)	Reel: 1.65 lbs (0.75 kg)	Reel: 1.76 lbs (0.80 kg)	Reel: 3.06 lbs (1.39 kg)	Reel: 1.76 lbs (0.80 kg)	Reel: 1.32 lbs (0.60 kg)
Applications	Industrial supply chain RTI management Warehouse automation Automated inventory	Industrial supply chain RTI management Warehouse automation Automated inventory	IT assets tracking Data center management Electronics devices	Reusable packaging and containers Automated warehouse MRO parts and components WIP inventory	Liquid container management Cosmetic management Wine management Pharmaceutical management	High-value assets tracking Hospital equipment MRO parts and components	Data centers Cosmetics management Electronic devices

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Series	Metal Skin® series - durable labels					
Product	Metal Skin® Titanium	Metal Skin® Titanium M730	Metal Skin® Titanium 48 Liquid	Metal Skin® Titanium 30 Smallest	Metal Skin® Titanium 25 Lasso	Metal Skin® Titanium 25 HF
Part Number (P/N)	X5220-US100-U9 (US) X5220-EU100-U9 (EU)	X4506-US011-M730 (US) X4506-EU011-M730 (EU)	X4804-US011-U8 (US) X4804-EU011-U8 (EU)	X3006-US011-U9xe (US) X3006-EU011-U9xe (EU)	X6813-GL011-U9 (Global)	X2525-HF011-FM1108 (HF)
Frequency	902-928 MHz(US) 865-868 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)	860-960 MHz (Global)	13.56 MHz (HF)
IC type	NXP UCODE 9	Impinj M730	NXP UCODE 8	NXP UCODE 9xe	NXP UCODE 9	FM1108
Chip memory	96 bits TID 96 bits EPC	96 bits TID 128 bits EPC	96 bits TID 128 bits EPC	96 bits TID 128 bits EPC	96 bits TID 96 bits EPC	64 bits
Read range on metal (fixed)	Up to 8.20 ft (2.50 m)	Up to 12.47 ft (3.80 m)	Up to 6.56 ft (2 m) on metal	Up to 5.91 ft (1.80 m)	Up to 26.25 ft (8 m)	Up to 0.16 ft (0.05 m)
Read range off metal (fixed)	Up to 3.28 ft (1 m)	Up to 10.50 ft (3.20 m) on liquid	Up to 3.28 ft (1 m) Up to 16.40 ft (5 m) on liquid	Up to 2.95 ft (0.90 m)	Limited	Limited
Material	White thermal transfer face stock	White thermal transfer face stock	White thermal transfer face stock	White thermal transfer face stock	White thermal transfer face stock	White thermal transfer face stock
Mounting systems	Industrial adhesive	Industrial adhesive	Industrial adhesive	Industrial adhesive	Industrial adhesive	Industrial adhesive
Operational temperatures	-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)
Survival temperatures	-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	58 psi (400 kPa)	-	-	-	-	-
IP rating	IP68	IP68	IP68	IP68	IP68	IP68
Dimensions	1.77 x 0.22 x 0.04 in (45 x 5.60 x 1 mm)	1.77 x 0.24 x 0.04 in (45 x 6 x 1 mm)	1.89 x 0.16 x 0.04 in (48 x 4 x 1 mm)	1.18 x 0.24 x 0.04 in (30 x 6 x 1 mm)	2.68 x 0.51 x 0.04 in (68 x 13 x 1 mm)	ø 0.98 x 0.04 in (ø 25 x 1 mm)
Weight	Reel: 0.88 lbs (0.40 kg)	Reel: 1.65 lbs (0.75 kg)	Reel: 1.76 lbs (0.80 kg)	Reel: 0.66 lbs (0.30 kg)	Reel: 4.28 lbs (1.94 kg)	Reel: 0.84 lbs (0.38 kg)
Applications	Product authentication IT asset and laptop tracking Radio and mobile equipment Foil-based packaging tracking	Product authentication IT asset and laptop tracking Radio and mobile equipment Foil-based packaging tracking	Food and beverage Medicines and pharmacy Liquid bottles and containers	IT asset and laptop tracking Electronic devices MRO parts and components	Jewelry management High-value item tracking Inventory management	IT asset management Warehouse management Automotive components tracking Equipment&device tracking

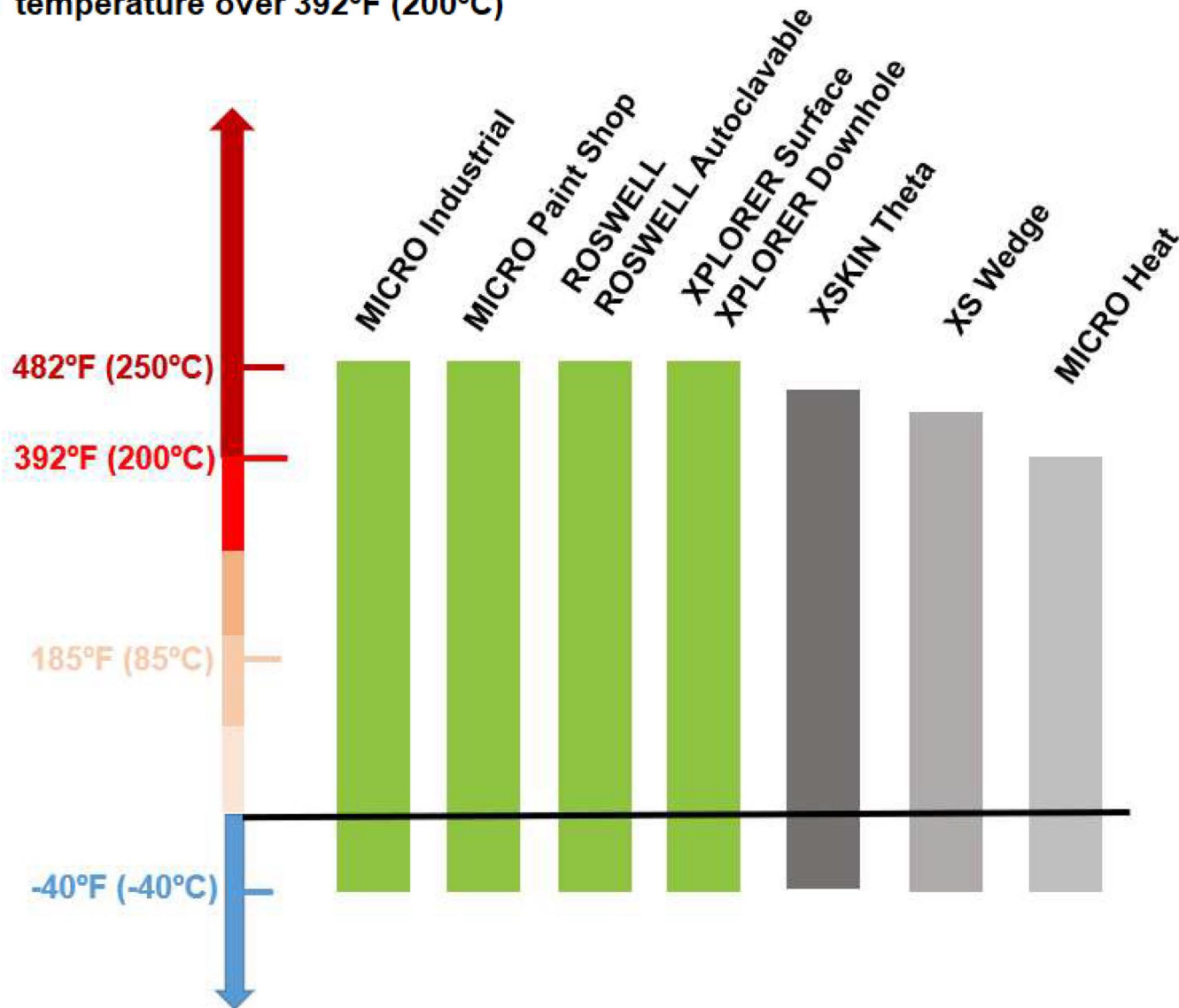
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Series	XSKIN series - specialty labels			XENSE series - passive sensing		NFC series - smart tracking	
Product	 XSKIN Theta	 XSKIN Gamma	 XSKIN Gamma (Reusable)	 XENSE Temp	 XENSE Strain	 NFC RTI OUTDOOR	 Metal Skin@ Titanium 25 HF
Part Number (P/N)	X7101-GL100-H3 (Global)	X6101-GL011-F1 (Global)	X6201-GL011-F1 (Global)	X90A0-US100-AS3211 X90A0-EU100-AS3211	X90A2-US100-AS3213S X90A2-EU100-AS3213S	X0316-US110-NTAG213 X0316-EU110-NTAG213	X2525-HF011-FM1108 (HF)
Frequency	860-960 MHz(Global) 🌐	860-960 MHz(Global) 🌐	860-960 MHz(Global) 🌐	902-928 MHz(US) 865-868 MHz (EU)	902-928 MHz(US) 865-868 MHz (EU)	902-928 MHz(US) 865-868 MHz (EU)	13.56 MHz (HF)
IC type	Alien Higgs 3	Fujitsu	Fujitsu	Asygn AS3211	Asygn AS3213S	Impinj R6-P (UHF) NXP NTAG213 (HF)	FM1108
Chip memory	64 bits TID 96 bits EPC 512 bits user memory ■	176 bits TID 160 bits EPC	176 bits TID 160 bits EPC	48 bits TID 192 bits EPC 32 bits user memory	16 bits TID 192 bits EPC 96 bits user memory ■	48 bits TID, 128/96 bits EPC 32/64 bits user memory (UHF) 7 bytes UID; 144 bytes user memory (HF)	64 bits
Read range on metal (fixed)	Limited	Limited	Limited	Up to 6.56 ft (2 m)	Up to 4.92 ft (1.5 m)	Up to 29.53 ft (8 m) Up to 0.03 ft (1 cm)	Up to 0.16 ft (0.05 m)
Read range off metal (fixed)	Up to 29.53 ft (9 m)	Up to 9.84 ft (3 m)	Up to 9.84 ft (3 m)	Up to 14.76 ft (4.50 m) in concrete Up to 9.84 ft (3 m)	Up to 6.56 ft (2 m) in concrete	Limited	Limited
Material	FPC	White thermal transfer face stock	White thermal transfer face stock	Industry grade polymer, Copper	Industry grade polymer	Anti-UV industry grade polymer	White thermal transfer face stock
Mounting systems	Injection molding, Embedded ▾	Industrial adhesive	Industrial adhesive	Casting, Rivets M4 Screws M4, Cable ties ▾ Industrial adhesive (optional)	Casting, Rivets M4 Screws M4, Cable ties ▾ Industrial adhesive (optional)	Rivets M3 Cable ties (optional) Industrial adhesive (optional)	Industrial adhesive
Operational temperature	-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 +185°F (-40°C to +85°C)
Survival temperature	-40°F to +446°F (-40°C to +230°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 +248°F (-40°C to +120°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)
Compression strength	142 psi (980 kPa)	14 psi (97 kPa)	14 psi (97 kPa)	29 psi (200 kPa)	8700 psi (60 MPa)	26 psi (180 kPa)	-
IP rating	IP68	IP54	IP54	IP68	IP68	IP68	IP68
Dimensions	2.80 x 0.43 x 0.005 in (71 x 11 x 0.13 mm)	2.95 x 0.79 x 0.01 in (75 x 20 x 0.20 mm)	4 x 2 x 0.01 in (101.60 x 50.80 x 0.20 mm)	3.94 x 1.02 x 0.35 in (100 x 26 x 8.90 mm)	5.18 x 1.21 x 0.30 in (131.60 x 30.80 x 7.50 mm)	2.88 x 0.90 x 0.34 in (73.30 x 22.80 x 8.65 mm)	ø 0.98 x 0.04 in (ø 25 x 1 mm)
Weight	0.007 oz (0.20 g)	Reel: 1.43 lbs (0.65 kg)	Reel: 3.17 lbs (1.44 kg)	0.68 oz (19.40 g)	1.48 oz (42 g)	0.39 oz (11 g)	Reel: 0.84 lbs (0.38 kg)
Applications	Plastics injection molding processes Returnable transport items Automotive components Portable power equipment and cables	Medical devices and equipment Medical supplies / PPE Pharmaceutical & biotech processing equipment Food processing / industry	Medical devices and equipment Medical supplies / PPE Pharmaceutical & biotech processing equipment Food processing / industry	Concrete curing Infrastructure monitoring Manufacturing assets	Concrete strength monitoring Infrastructure management Railroad concrete ties	Legacy tracking systems Oil and Gas assets RTI management Production logistics	IT asset management Warehouse management Automotive components tracking Equipment&device tracking

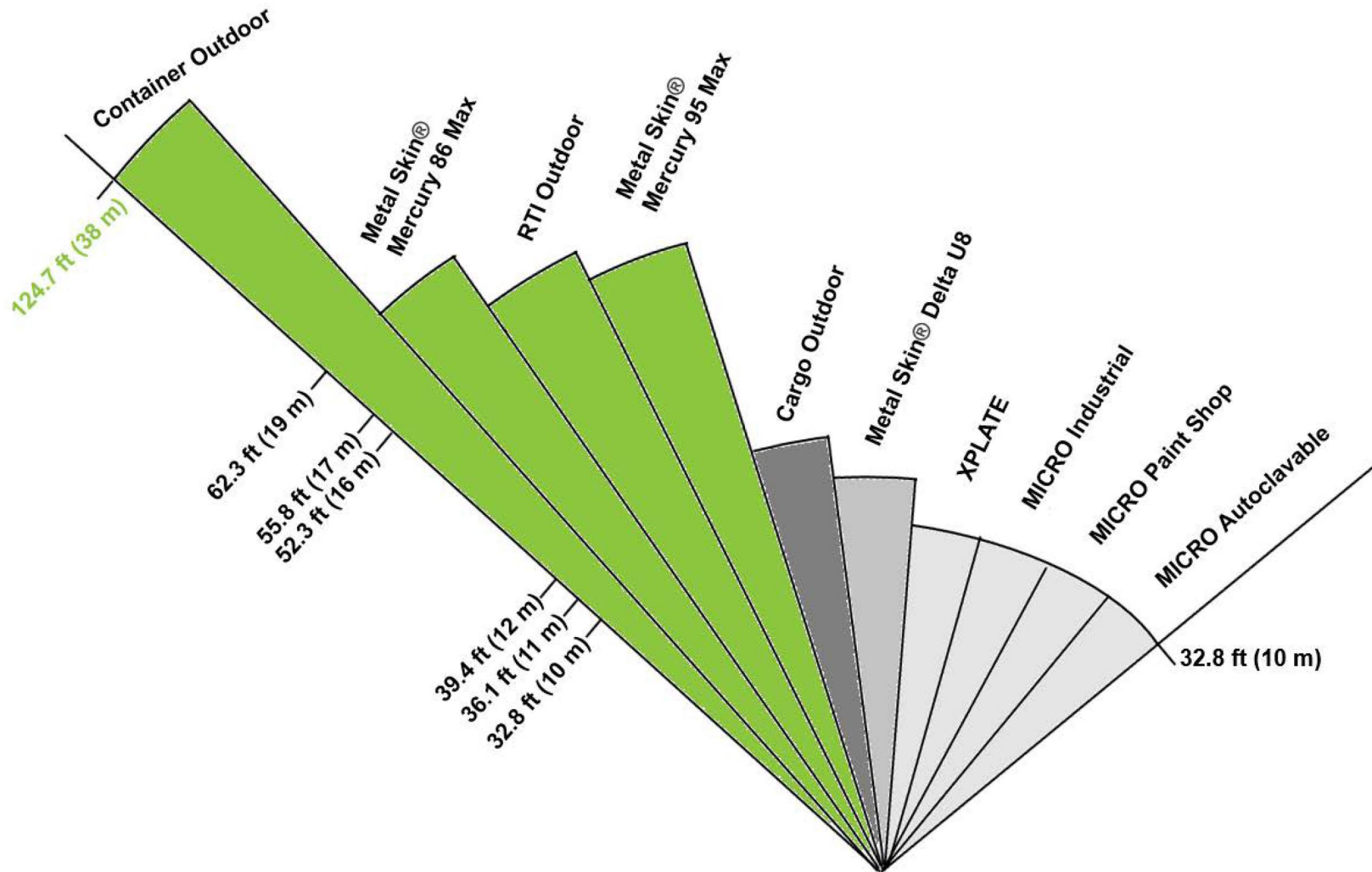
Xerafy High Temperature RFID Tags And Inlay

Application temperature over 392°F (200°C)

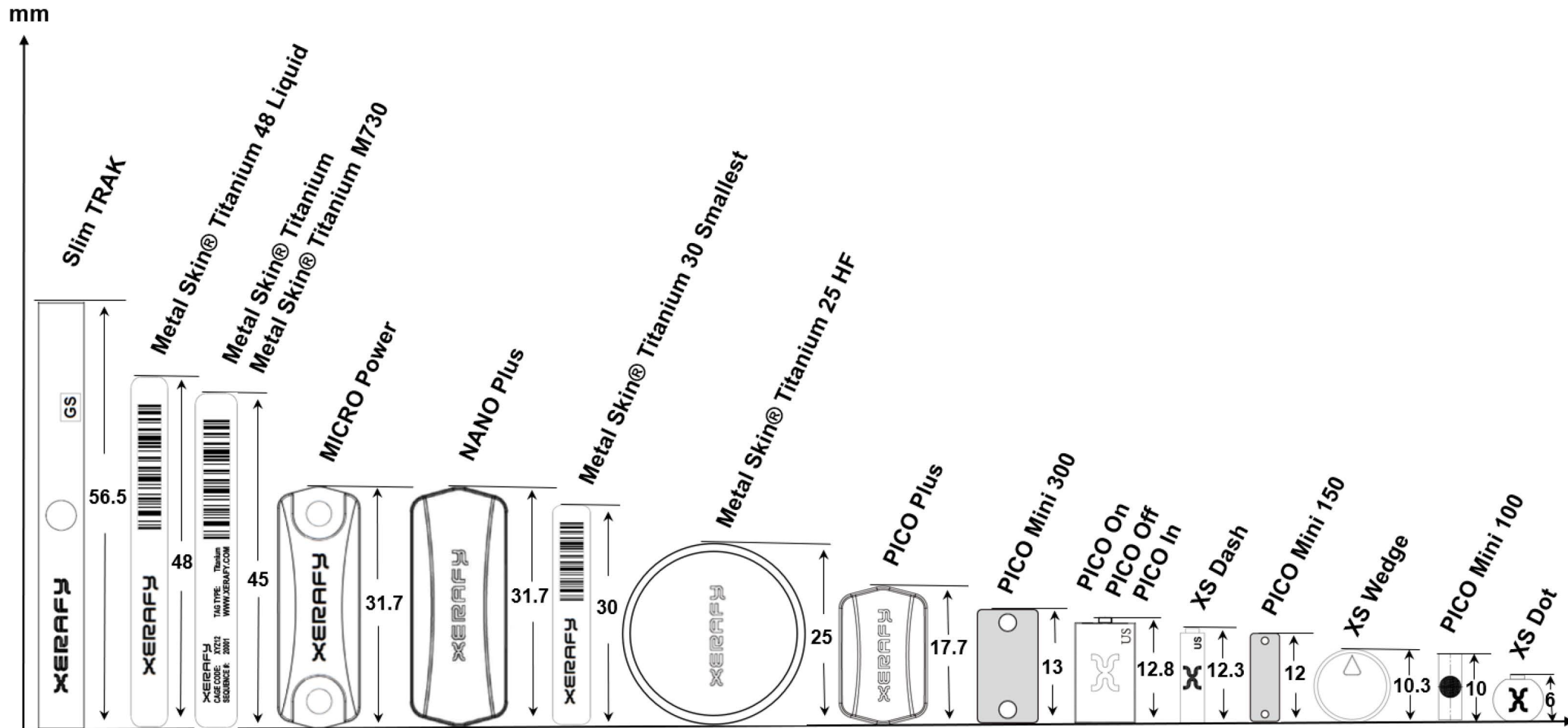


Xerafy Long-Range RFID Tags And Label

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



Xerafy Small Footprint RFID Tags and Labels

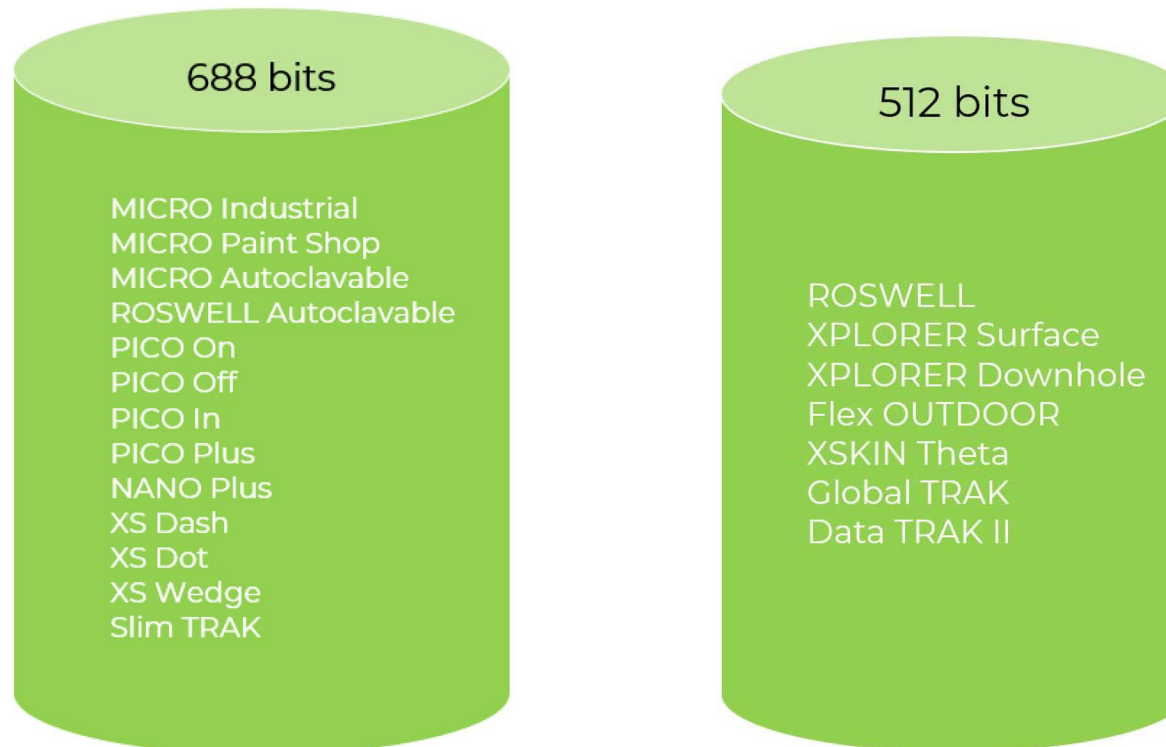


Xerafy High User Memory RFID Tags and Labels

Types of Memory in RFID Tags

1. **RESERVED MEMORY** - This memory bank stores the kill password and the access password (each are 32 bits).
2. **TID MEMORY** - The Tag ID is a serial number that is unique to the chip and cannot be altered.
3. **EPC MEMORY** - The Electronic Product Code can be re-programmed, protected with a password, and also permanently locked.
4. **USER MEMORY** - Some chips offer extended user memory which is typically used when EPC memory is not enough.

High User Memory RFID Tags and Labels



Xerafy Embeddable RFID Tags, Inlays and Sensors

	Products	Embedding Recommendations	Embedding Methods	Applicable Materials
XS Wedge		<ol style="list-style-type: none"> 1. Make a plane on the surface (Length \geq 12 mm * Width \geq 12 mm). 2. Drilling - Make a flat bottom groove on the metal surface 10 mm * 5 mm. 2. Position - Put $\frac{1}{2}$ of the XS Wedge into the groove and adjust the tag's direction according to the object size. 3. Insertion - Drive the remaining $\frac{1}{2}$ of the tag into the groove, using a hammer or similar tool. 	Flush mounting Seal-in	Metal
PICO In		Click to watch the instruction video.	Flush mounting Seal-in	Metal
XPLOER Download XPLOER Surface		Click to watch the instruction video.	Flush mounting Seal-in	Metal
XSKIN Theta		Designed to work with a wide range of thermoplastic resins and to be compatible with a large number of molding processes for temperatures of up to 230°C.	Injection molding Compression molding	Plastics
XENSE Temp		Fix the tag to the metal rebars using cable ties and embedded in concrete.	Casting	Concrete Rebars Plaster

Xerafy Customizable RFID Tags

Xerafy offers a Custom RFID tag development service drawing on a 10 year-long expertise in RF technology and industrial asset tracking systems.

Xerafy lets you build your RFID System on the company's unparalleled reputation for first-class durable, passive, on-metal tags and labels.

Our Custom RFID Tags co-development approach ensures you start in no time with the support you need at every step of the process:

1. **KEY FEATURES** - Identifying the application environment and the level of performance to be achieved allows for effective validation of the custom design's MVP
2. **FEASIBILITY** - A technical and financial assessment provides the data required to finalize the business case and confirm the expected ROI
3. **PROTOTYPING** - Incremental innovation to achieve the performance required
4. **DEPLOYMENT** - Manufacturing, shipping, and full support throughout

Xerafy Service Bureau

Chose from a full range of customization services available to personalize off-the-shelf RFID tags, labels, inlays, and sensors.

- **Readable** identifications - Serial numbers, text, custom colors, logos
- **Optical** identifications - Barcodes, QR Codes
- **Encoding** - Unique ID numbers, serialized or unserialized, written in the memory of the chip

RFID Labels are specifically designed to be personalized in the field, with the leading Industrial RFID printers from SATO, Zebra, Postek... able to print and encode at the same time, at scale.

Customized physical markings are available with various levels of durability to suit every use case:

- **Painting**
- **Printing**, for labels
- **Laser marking**, for hard tags.

About Xerafy

Digitize Your Business Smarter, Safer, Cleaner, Better

Xerafy enables digital transformation at Fortune 500 companies with benchmark-topping RFID tagging solutions and engineering services.

Connected Assets

At Xerafy, we believe in the Industrial Internet of Things.

Manufacturers and end-users develop smart connected assets using our RFID technology, allowing for more efficient business operations and new product capabilities.

Our mission: To push technological boundaries and solve the operational issues holding back Industry 4.0.

How We Got Started

Xerafy was founded by a team of experienced RFID engineers who got together to solve the problems faced by industrial customers.

Customers needed to manage small assets like hands tools, manufacturing molds, industrial equipment, medical devices. They wanted tags small enough to embed or attach to their assets but rugged enough to survive the extreme temperatures, humidity, and rough handling that are the norm in industrial environments.

Traditional barcode solutions available had already demonstrated too many limitations including line-of-sight, distance, automation, and durability.

The Xerafy engineering team came together to develop a breakthrough Radio Frequency Identification (RFID) design. Unlike others, it would take advantage of the metal in its surrounding, instead of being limited by it.

The company decided to name themselves Xerafy to symbolize the smallest EPC UHF RAIN RFID tag to verify and quantify assets.

The Company

Xerafy is headquartered in Singapore, and maintains sales and technical support offices in the US, UK and China. Xerafy's wholly owned manufacturing plant in China allows the company to guarantee quality as well as provide unique customization capabilities and cost advantages.



atlasRFIDstore

(205) 383-2244

sales@atlasRFIDstore.com

www.atlasRFIDstore.com