










Product Guide

	High Temperature and Rugged Line				Embeddable Line for Source Tagging and Extreme Conditions			Extra Small Line	
Series	X II Series				iN Series			XS Series	
Product									
	Micro ^{II}	Nano ^{II}	Pico ^{II} / Pico ^{II} Plus	Pico-On Plus	Micro-iN	Nano-iN	Pico-iN / Pico-iN Plus	Dot-iN XS / Dot-On XS	Dash-iN XS / Dash-On Xs
Operating frequency	902-928 MHz (US) 866-868 MHz (EU) 952-954 MHz (JP)	902-928 MHz (US) 866-868 MHz (EU) 952-954 MHz (JP)	902-928 MHz (US) 866-868 MHz (EU) 952-954 MHz (JP)	902-928 MHz (US) 866-868 MHz (EU) 952-954 MHz (JP)	902-928 MHz (US) 866-868 MHz (EU) 952-954 MHz (JP)	902-928 MHz (US) 866-868 MHz (EU) 952-954 MHz (JP)	902-928 MHz (US) 866-868 MHz (EU) 952-954 MHz (JP)	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	Alien Higgs-3	Alien Higgs-3	Alien Higgs-3	Alien Higgs-3
Memory configuration	96 EPC bits, extendable to 480 bits (512 bit user memory)	96 EPC bits, extendable to 480 bits (512 bit user memory)	96 EPC bits, extendable to 480 bits (512 bit user memory)	96 EPC bits, extendable to 480 bits (512 bit user memory)	96 EPC bits, extendable to 480 bits (512 bit user memory)	96 EPC bits, extendable to 480 bits (512 bit user memory)	96 EPC bits, extendable to 480 bits (512 bit user memory)	96 EPC bits, extendable to 480 bits (512 bit user memory)	96 EPC bits, extendable to 480 bits (512 bit user memory)
Read range on metal	Up to 33 ft (10 m)	Up to 20 ft (6 m)	Up to 6.6 ft (2 m); 10 ft (3 m) for Pico ^{II} Plus	Up to 10 ft (3 m)	Up to 20 ft (6 m) when embedded	Up to 13 ft (4 m) when embedded	Up to 3.3 ft (1 m); 6.6 ft (2 m) for Pico-iN Plus when embedded	Up to 5 ft (1.5 m); 3 ft (1 m) when embedded	Up to 6.6 ft (2 m); 5 ft (1.5 m) when embedded
Read range off metal	Limited	Limited	Limited	Limited	Limited	Limited	Limited	Limited	Limited
Case material	Engineering grade nylon polymer	Engineering grade nylon polymer	Engineering grade nylon polymer	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Mounting system	Rivet hole, 0.12 in (3.2 mm); adhesive (optional)	High performance adhesive	High performance adhesive	High performance adhesive	Embedded	Embedded	Embedded	Epoxy, embedded	Epoxy, embedded
Operating temperature	-22°F (-30°C) to +185°F (+85°C)	-22°F (-30°C) to +185°F (+85°C)	-22°F (-30°C) to +185°F (+85°C)	-22°F (-30°C) to +185°F (+85°C)	-22°F (-30°C) to +185°F (+85°C)	-22°F (-30°C) to +185°F (+85°C)	-22°F (-30°C) to +185°F (+85°C)	-22°F (-30°C) to +185°F (+85°C)	-22°F (-30°C) to +185°F (+85°C)
Application temperature	-40°F (-40°C) to +482°F (+250°C)	-40°F (-40°C) to +302°F (+150°C)	-40°F (-40°C) to +302°F (+150°C)	-40°F (-40°C) to +302°F (+150°C)	-40°F (-40°C) to +302°F (+150°C)	-40°F (-40°C) to +302°F (+150°C)	-40°F (-40°C) to +302°F (+150°C)	-40°F (-40°C) to +302°F (+150°C)	-40°F (-40°C) to +302°F (+150°C)
Compression strength	181 psi (1259 kPa)	166.8 psi (1150 kPa)	174 psi (1200 kPa)	170 psi (1176 kPa)	Packaging dependent	Packaging dependent	Packaging dependent	Packaging dependent	Packaging dependent
IP classification	IP68	IP68	IP68	IP68	IP68	IP68	IP68	IP68	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 0.19 in (31.7 x 12.8 x 4.8 mm)	0.70 x 0.43 x 0.19 in (17.7 x 10.9 x 4.8 mm)	0.47 x 0.28 x 0.12 in (12 x 7 x 3 mm)	1.18 x 1.18 x 0.12 in (30 x 30 x 3 mm)	0.98 x 0.35 x 0.12 in (25 x 9 x 3 mm)	0.47 x 0.28 x 0.12 in (12 x 7 x 3 mm)	ø 0.24 x 0.1 in (ø 6 x 2.5 mm)	0.48 x 0.12 x 0.09 in (12.3 x 3 x 2.2 mm)
Weight	1.02 oz (29 g)	0.18 oz (5 g)	0.07 oz (2 g)	0.05 oz (1.4 g)	0.53 oz (15 g)	0.13 oz (3.6 g)	0.05 oz (1.4 g)	0.02 oz (0.5 g)	0.02 oz (0.5 g)
Sample applications	Bulk container tracking, vehicle tracking, post-paint oven baking, autoclave	Tool tracking, WIP conveying equipment, IT/telecom management, instrument tracking, weapons tracking	Tool tracking, weapon device management, instrument tracking	Tool tracking, electronic device management, instrument tracking	Reusable container tracking, logistics, heavy machinery tracking, automotive parts identification	IT asset identification, weapons tracking, tool management	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

Product Guide

Series	Versatile On and Off Metal Line				High Memory Line		
	Trak Series				XL Series		
Product							
	Cargo Trak	Versa Trak	Data Trak	Global Trak	Sky-ID	Nano XL	Nano-iN XL
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)
IC type	Alien Higgs-3	Alien Higgs-3	Alien Higgs-3	Impinj Monza 4QT	TegoXM	TegoXM	TegoXM
Memory configuration	96 EPC bits, extendable to 480 bits [512 bit user memory]	96 EPC bits, extendable to 480 bits [512 bit user memory]	96 EPC bits, extendable to 480 bits [512 bit user memory]	128 EPC bits, extendable to 480 bits [512-bit user memory]	96 EPC bits, extendable to 224 bits [4k byte user memory] or 496 bits [8k byte user memory]	96 EPC bits, extendable to 224 bits [4k byte user memory] or 496 bits [8k byte user memory]	96 EPC bits, extendable to 224 bits [4k byte user memory] or 496 bits [8k byte user memory]
Read range on metal	Up to 39 ft [12 m]	Up to 26 ft [8 m]	Up to 13 ft [4 m]	Up to 8 ft [2.5 m]	Up to 6 ft [1.8 m]	Up to 4 ft [1.2 m]	Up to 2.6 ft [0.8 m] when embedded
Read range off metal	Up to 20 ft [6 m]	Up to 13 ft [4 m]	Up to 6.6 ft [2 m]	Up to 6 ft [1.8 m]	Limited	Limited	Limited
Case material	ABS plastic	ABS plastic	ABS plastic	Polycarbonate	Engineering grade polyester FR-4	Engineering grade nylon polymer	Ceramic
Mounting system	Rivet hole, 0.14 in [3.5 mm]; adhesive (optional)	High performance adhesive	Adhesive; tether; hang clip (optional)	Adhesive; built-in ø 0.1 in [2.6 mm] tethering hole	High performance adhesive	High performance adhesive	Embedded
Operating temperature	-40°F [-40°C] to +185°F [+85°C]	-22°F [-30°C] to +185°F [+85°C]	-22°F [-30°C] to +185°F [+85°C]	-40°F [-40°C] to +185°F [+85°C]	+32°F [0°C] to +158°F [+70°C]	+32°F [0°C] to +158°F [+70°C]	+32°F [0°C] to +158°F [+70°C]
Application temperature	-40°F [-40°C] to +185°F [+85°C]	-40°F [-40°C] to +185°F [+85°C]	-40°F [-40°C] to +185°F [+85°C]	-40°F [-40°C] to +185°F [+85°C]	-67°F [-55°C] to +302°F [+150°C]	-40°F [-40°C] to +302°F [+150°C]	-40°F [-40°C] to +302°F [+150°C]
Compression strength	29 psi [200 kPa]	26.1 psi [180 kPa]	14.5 psi [100 kPa]	14.5 psi [100 kPa]	203 psi [1400 kPa]	166.8 psi [1150 kPa]	Packaging dependent
IP classification	IP68	IP54	IP54	IP54	IP68	IP68	IP68
Dimensions	3.94 x 1.02 x 0.35 in [100 x 26 x 8.9 mm]	1.97 x 0.67 x 0.20 in [50 x 17 x 5 mm]	1.45 x 0.51 x 0.12 in [36.7 x 13 x 3 mm]	1.50 x 0.51 x 0.15 in [38 x 13 x 3.8 mm]	1.38 x 0.79 x 0.16 in [35 x 20 x 4.1 mm]	1.25 x 0.51 x 0.19 in [31.7 x 12.8 x 4.8 mm]	1.02 x 0.35 x 0.12 in [26 x 9 x 3 mm]
Weight	0.61 oz [17.2 g]	0.11 oz [3 g]	0.07 oz [2 g]	0.09 oz [2.6 g]	0.21 oz [6 g]	0.18 oz [5 g]	0.13 oz [3.6 g]
Sample applications	Vehicle chassis and trailer tracking, Unit Load Device identification, yard management	Instrument tracking, pallet tracking, RTI management, storage rack identification	IT asset management, laptop and PC security, WIP small parts bins, instrument tracking	Global supply chain logistics, IT asset management, datacenter servers	SAE AS5678 and ATA Spec2000 compliant, aircraft parts, configuration management, MRO management	Remote asset management, maintenance recording, asset pedigree tracking	Parts maintenance, configuration management, MRO management