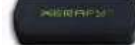


Product Guide

 Embeddable
  Global Frequency
  High Temp
  Autoclavable
  User Memory
  Long Range

Series	PICO series- small				ROSWELL series - extra strong			
Product	 Pico On	 Pico In	 Pico Plus	 Nano Plus	 Roswell Autoclavable	 Roswell	 Xplorer Surface	 Xplorer Downhole
Part Number (P/N)	X3110-US001-U8 (US) X3110-EU001-U8 (EU)	X3110-US101-U8 (US) X3110-EU101-U8 (EU)		X1120-US101-U8 (US) X1120-EU101-U8 (EU)				
User memory version	X3110-US001-H3 (US) X3110-EU001-H3 (EU)	X3110-US101-H3 (US) X3110-EU101-H3 (EU)	X3110-US101-H3 (US) X3110-EU101-H3 (EU)	X1120-US101-H3 (US) X1120-EU101-H3 (EU)	X1114-US143-H3 (US) X1114-EU143-H3 (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)
Operating 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)	902-928MHz (US) 865-868MHz (EU)	902-928MHz (US) 865-868MHz (EU)
IC type	NXP UCODE8 Alien Higgs-3	NXP UCODE8 Alien Higgs-3	Alien Higgs-3	NXP UCODE8 Alien Higgs-3	Alien Higgs-3	Alien Higgs-3	Alien Higgs-3	Alien Higgs-3
Memory configuration	96 bits TID 128 bits EPC 686 bits User Mem (opt)	96 bits TID 128 bits EPC 686 bits User Mem (opt)	64 bits TID 96/480 bits EPC 512 bits User Memory	96 bits TID 128 bits EPC 686 bits User Mem (opt)	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	64 bits TID 96/480 bits EPC 512 bits User Memory
Read range on metal (2W EIRP)	Up to 10 ft (3 m)	Up to 6.6 ft (2m) when embedded	Up to 10 ft (3 m)	Up to 20 ft (6 m)	Up to 16.4 ft (5 m)	Up to 16.4 ft (5 m)	Up to 5 ft (1.5m) when embedded	Up to 5 ft (1.5m) when embedded
Read range off metal (2W EIRP)	Limited	Limited	Limited	Limited	Limited	Limited	Limited	Limited
Case material	Engineering grade nylon polymer/ Ceramic	Ceramic	Engineering grade nylon polymer/ Ceramic	Engineering grade nylon polymer	Stainless steel	Aluminum	Stainless steel	Stainless steel
Mounting system	High-performance adhesive	Epoxy, embeddable 	High-performance adhesive	High-performance adhesive	Welding, cable tie, rivet hole ø 0.19 in (ø 5 mm)	Welding, cable tie, rivet hole ø 0.19 in (ø 5 mm)	Embeddable 	Embeddable 
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)	-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)
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 +302°F (-40°C to +150°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	170 psi (1,176 kPa)	Packaging dependent	174 psi (1,200 kPa)	166.8 psi (1,150 kPa)	1,145 psi (7,900 kPa)	115 psi (793 kPa)	30,000 psi (206 MPa)	30,000 psi (206 MPa)
IP	IP68	IP68	IP68	IP68	IP68 	IP68	IP69K	IP69K
Dimensions	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)	0.70 x 0.43 x 0.2 in (17.7 x 10.9 x 5 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)	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)	ø 1.11 x 0.33 in (ø 28.3 x 8.5 mm)
Weight	0.05oz (1.4g)	0.05 oz (1.4 g)	0.07 oz (2 g)	0.18 oz (5 g)	1.55 oz (44 g)	0.74 oz (21 g)	0.89 oz (25.4 g)	0.89 oz (25.4 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	Manufacturing Hand Tools and Equipments MRO Tool Tracking Military Equipments Tracking Warehouse Automation	MRO Tool Tracking Manufacturing VIP IT Asset Management	Sterilizable surgical trays Medical devices Oil & Gas Valve / Wellhead Management Food Processing Plants Automotive Manufacturing	Sterilizable surgical trays Medical devices 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