

Product Guide

	MICRO X-II Series				PICO Series		XS Series			ROSWELL Series	
Series											
Product											
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]	902-928 MHz [US] 866-868 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-3	Alien Higgs-3	Alien Higgs-3	Qstar-56GN	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-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 bits (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	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
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 10 ft (3 m)	Up to 6.6 ft (2 m) when embedded	Up to 6.6 ft (2 m)	Up to 5 ft (1.5 m)	Up to 3.3 ft (1 m)	Up to 16.4 ft (5 m)	5 ft (1.5m) when embedded
Read range off metal	Limited	Limited	Limited	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	Ceramic	Ceramic	High performance engineering polymer	Stainless steel/ Aluminum 6061-T6	Stainless steel
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, embedded	Epoxy	Epoxy	Press fit	Welding, cable tie, rivet hole ø 0.19 in (ø 5 mm)	Press fit
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)	-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)
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)	-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)	-58°F to +482°F (-50°C to +250°C)
Compression strength	181 psi (1250 kPa)	181 psi (1250 kPa)	181 psi (1250 kPa)	725psi (5000 kPa)	174 psi (1200 kPa) / 170 psi (1176 kPa)	Packaging dependent	790 psi (5447kPa)	790 psi (5447kPa)	10,100psi (70 MPa)	1145 psi (7900 kPa)/ 115 psi (793 kPa)	30,000 psi (206 MPa)
IP classification	IP68	IP68	IP69K	IP68	IP68	IP68	IP68	IP68	IP68	IP69K	IP69K
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 36.2 x 7.5 mm)	0.70 x 0.43 x 0.2 in (17.7 x 10.9 x 5 mm) / 0.47 x 0.28 x 0.13 in (12 x 7 x 3.2 mm)	0.47 x 0.28 x 0.12 in (12 x 7 x 3 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)	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)
Weight	0.92 oz (26 g)	0.98 oz (28 g)	0.98 oz (28 g)	1.06 oz (30 g)	0.07 oz (2 g) / 0.05 oz (1.4 g)	0.05 oz (1.4 g)	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 (25.4 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, weapon tracking, medical device management, instrument tracking	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	Onshore and Offshore Pipes Heavy Equipment and Tools Automotive Manufacturing Molds	Surgical Trays Oil & Gas Valve Wellhead Management Food Processing Plants, Automotive Manufacturing	Downhole and Surface Drill Pipes, Sub-sea Oil Pipes, BOPs and Wellheads

Products marked with an asterisk(*) are available in autoclavable version.

