


















	High Temperature and Rugged Line				Embeddable Line for Source Tagging and Extreme Conditions			Extra Small Line	
Series	AGX-L Series				AGX-M Series			AGX-S Series	
Product									
	AGX-L 01	AGX-L 02	AGX-L 03	AGX-L 04	AGX-M 01	AGX-M 02	AGX-M 03	AGX-S 01	AGX-S 02
	Embed in Metal	Embed in Metal	Embed in Plus	Embed in Plus	Embed in Metal	Embed in Plus	Embed in Plus	Embed in Plus	Embed in Plus
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) 952-954 MHz (JP)	902-928 MHz (US) 866-868 MHz (EU) 952-954 MHz (JP)
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; 512-bit user memory	96-EPC bits; 512-bit user memory	96-EPC bits; 512-bit user memory	96-EPC bits; 512-bit user memory	96-EPC bits; 512-bit user memory	96-EPC bits; 512-bit user memory	96-EPC bits; 512-bit user memory	96-EPC bits; 512-bit user memory	96-EPC bits; 512-bit user memory
Read range on metal	Up to 33 ft (10 m)	Up to 20 ft (6 m)	Up to 4.6 ft (2 m); 10 ft (3 m) for AGX-L 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 AGX-M 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)	0.98 x 0.35 x 0.12 in (25 x 9 x 3 mm)	0.98 x 0.35 x 0.12 in (25 x 9 x 3 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)	0.14 oz (4 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 tracking, medical device management, instrument tracking	Tool tracking, electronic device management, instrument tracking	Reusable container 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

	Versatile On and Off Metal Line				Flexible Metal Line		High Memory Line	Special Tag Line	
Series	AGX-T Series				AGX-FM Series		AGX-HM Series	AGX-ST Series	
Product									
	AGX-T 01	AGX-T 02	AGX-T 03	AGX-T 04	AGX-FM 01	AGX-FM 02	AGX-HM 01	AGX-ST 01	AGX-ST 02
	Embed in Metal	Embed in Metal	Embed in Metal	Embed in Metal	Embed in Metal	Embed in Metal	Embed in Metal	Embed in Metal	Embed in Metal
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)	860-960 MHz (Global)	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	Impinj Monza 4E	Impinj Monza 4E	Impinj Monza 4E	Impinj Monza M5	Tegochip XL	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)	48-bit serial TID, 496 EPC bits, 128 bits user memory	48-bit serial TID, 496 EPC bits, 128 bits user memory	48-bit serialized TID, 496 EPC bits, 128 bits user memory	48-bit serialized TID, 128 EPC bits	96 EPC bits, extendable to 496 bits (2k 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 39 ft (12 m)	Up to 26 ft (8 m)	Up to 14.8 ft (4.5 m)	Up to 8 ft (2.5 m)	Up to 4 ft (1.2 m)	Up to 4 ft (1.2 m)	Up to 1 ft (0.3 m)	Up to 19 ft (6 m)	Up to 19 ft (6 m)
Read range off metal	Up to 20 ft (6 m)	Up to 13 ft (4 m)	Up to 8 ft (2.5 m)	Up to 6 ft (1.8 m)	Up to 16 ft (5 m)	Up to 4 ft (1.2 m)	Limited	Up to 13 ft (4 m); 6.5 ft (2 m) when embedded 2 in (50 mm) in concrete	Limited
Case material	ABS plastic	ABS plastic	Polycarbonate	Polycarbonate	N.A.	N.A.	Engineering grade nylon polymer	Engineering grade nylon polymer	Engineering grade nylon polymer
Mounting system	Rivet hole, ø 0.14 in (3.5 mm); adhesive (optional)	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	High performance adhesive (dry)	High performance adhesive (dry)	High performance adhesive	Mounted or embedded in concrete	High performance adhesive
Operating temperature	-40°F (-40°C) to +185°F (+85°C)	-22°F (-30°C) to +185°F (+85°C)	-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)	-22°F (-30°C) to +185°F (+85°C)	+32°F (0°C) to +158°F (+70°C)	-40°F (-40°C) to +185°F (+85°C)	-40°F (-40°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	29 psi (200 kPa)	26.1 psi (180 kPa)	14.5 psi (100 kPa)	14.5 psi (100 kPa)	Not applicable	Not applicable	174 psi (1200 kPa)	93 psi (641 kPa)	80 psi (551 kPa)
IP classification	IP68	IP54	IP54	IP54	Not applicable	Not applicable	IP68	IP68	IP68
Dimensions	3.94 x 1.02 x 0.35 in (100 x 26 x 8.9 mm)	1.97 x 0.47 x 0.20 in (50 x 17 x 5 mm)	1.50 x 0.51 x 0.15 in (38 x 13 x 3.8 mm)	1.50 x 0.51 x 0.15 in (38 x 13 x 3.8 mm)	3.58 x 1.18 x 0.027 in (91 x 30 x 0.64 mm) dry; 4 x 1.5 x 0.031 in (101.6 x 38 x 0.76 mm) Smart Label	1.77 x 0.22 x 0.03 in (45 x 5.6 x 0.86 mm)	0.70 x 0.43 x 0.19 in (17.7 x 10.9 x 4.8 mm)	2.75 x 1.25 x 0.43 in (70 x 32 x 11 mm)	ø 1.26 x 0.25 in (ø 32 x 6.5 mm)
Weight	0.61 oz (17.2 g)	0.11 oz (3 g)	0.09 oz (2.6 g)	0.09 oz (2.6 g)	0.07 oz (2 g)	0.11oz (3 g)	0.07 oz (2 g)	0.85 oz (24 g)	0.26 oz (7.4 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, Datacenter servers, Healthcare equipment, Cables	Global supply chain logistics, IT asset management, datacenter servers	Product authentication, laptop tracking, global supply chain tracking, radio and mobile equipment, foil-based packaging	Product authentication, IT asset and laptop tracking, radio and mobile equipment, foil-based packaging	Aircraft parts maintenance, IT management, MRO management	Aircraft parts maintenance, IT management, MRO management	Aircraft parts maintenance, IT management, MRO management