Omni-ID®

Fit Range – Small for Integration

Products	Fit 100	Fit 100	Fit 100	Fit 200	Fit 200	Fit 210	Fit 210
Versions	■ STANDARD	■ HIGH TEMPERATURE	■ EMBEDDED	■ STANDARD	■ EMBEDDED	■ GLOBAL	■ HIGH TEMPERATURE
Typical Applications	Tool tracking - small metal tools. Medical device tracking. Embedding into equipment at point of manufacture.	Tool tracking- small metal tools. Medical device tracking. Embedding into equipment at point of manufacture.	Tool tracking- small metal tools. Medical device tracking. Embedding into equipment at point of manufacture.	Small metal tools. including Medical device tracking. Embedding into equipment at point of manufacture.	Tool tracking including very small metal tools. Medical device tracking. Embedding into equipment at point of manufacture.	Tool tracking including very small metal tools. Medical device tracking Embedding into equipment at point of manufacture.	Hand Tool tracking Paint processes in automotive IT assets at point of manufacture Healthcare - sterilization

RF Specifications

	Fit 100 STANDARD	Fit 100 HIGH TEMP	Fit 100 EMBEDDED	Fit 200 STANDARD	Fit 200 EMBEDDED	Fit 210 GLOBAL	Fit 210 HIGH TEMP
Frequency Range (MHz)	902–928 (US) 866–868 (EU)	902–928 (US) 866–868 (EU)	902–928 (US) 866–868 (EU)	902–928 (US) 866–868 (EU)	902–928 (US) 866–868 (EU)	860 – 930 (GS)	902–928 (US) 866–868 (EU)
Fixed reader Read Range (m) Handheld reader Read Range (m)	Up to 1.1 Up to 0.5	Up to 1.1 Up to 0.5	Up to 1.0 Up to 0.4	Up to 2.5 Up to 1.25	Up to 2.5 Up to 1.0	Up to 2.5 Up to 1.4	Up to 2 Up to 1
Material Compatibility	Optimized for Metal	Optimized for Metal	Optimized for Metal	Optimized for Metal	Optimized for Metal	Optimized for Metal	Optimized for Metal
IC Type	Alien Higgs 3	Alien Higgs 3	Alien Higgs 3	Alien Higgs 3	Alien Higgs 3	Alien Higgs 3	Alien Higgs 3

Physical and Environmental Specifications

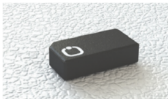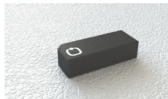|	Fit 100 STANDARD	Fit 100 HIGH TEMP	Fit 100 EMBEDDED	Fit 200 STANDARD	Fit 200 EMBEDDED	Fit 210 GLOBAL	Fit 210 HIGH TEMP
Finish	Painted Black top & sides	Painted Black	Unpainted ceramic	Painted Black top & sides	Unpainted ceramic	Grey	Painted Red
Size (mm)	6.8 x 6.4 x 2.1	6.8 x 6.4 x 2.1	8.6 x 6.1 x 2.6	8.6 x 6.1 x 2.6	13.1 x 7.5 x 3	53 x 5.0 x 1.5	57.1 x 5.95 x 1.3
Weight (g)	0.8	0.8	0.63	0.8	1.4	1.0	0.8
Operation Temperature (°C)[1] Max Temperature Exposure (°C)[1]	-20 to +70℃ -20 to +70℃	-20 to +85℃ -20 to +225℃	-20 to +70℃ -20 to +70℃	-20 to +70℃ -20 to +70℃	-20 to +85℃ -20 to +85℃	-20 to +85℃ -20 to +120℃	-20 to +85℃ -20 to +225℃
Ingress Protection	IP68	IP68	IP68	IP68	IP68	IP68	IP68
Shock and Vibration	MIL STD 810-G	MIL STD 810-G	MIL STD 810-G	MIL STD 810-G	MIL STD 810-G	MIL STD 810-G	MIL STD 810-G
Attachment	Film adhesive (included) Permanent liquid adhesive (opt.ion)	Film adhesive[2] (option for placement only) Permanent liquid adhesive (opt. ion)	Omni-ID carrier (included)[3]	Film adhesive (included) Permanent liquid adhesive (option)	Omni-ID carrier (included)[3]	Film adhesive (included)	Film adhesive[2] (option for placement only) Permanent liquid adhesive (opt. ion)
Order Codes (see datasheets for option codes)	130 - EU, US	129 - EU, US	126 - EU, US	050 - EU, US	127 - EU, US	137 - GS	123 - EU, US

1. Excludes adhesive options, consult adhesive datasheets for recommended temperature ratings.
2. The product has been designed for optimal RF performance when used with 130 micron +/-20% adhesive under the tag.
3. See Omni-ID Embedded Fit Tag User Guide for epoxy options.

Products	Fit 400	Fit 400	Fit 400	Fit 400P	Fit 700
Versions	■ STANDARD	■ EMBEDDED	■ GLOBAL EMBEDDED	■ STANDARD	■ GLOBAL
Typical Applications	Tool tracking including metal hand tools. Metal IT assets.	Metal hand tools. Healthcare Equipment Automotive post-paint processes	Metal hand tools. Healthcare Equipment Automotive post-paint processes	Tool tracking Attachment to plastic handles or plastic tools. Surface mounting to plastic components of high value assets	Tool tracking Weapons & military asset tracking Integration within IT assets at point of manufacture

RF Specifications

	Fit 400 STANDARD	Fit 400 EMBEDDED	Fit 400 GLOBAL EMBEDDED	Fit 400P STANDARD	Fit 700 GLOBAL
Frequency Range (MHz)	902–928 (US) 866–868 (EU)	902–928 (US) 866–868 (EU)	860–930 (GS)	902–928 (US) 866–868 (EU)	860–930 (GS)
Fixed reader Read Range (m) Handheld reader Read Range (m)	Up to 4.0 Up to 2.0	Up to 4.0 Up to 2.0	Up to 3.0 Up to 2.5	Up to 3.5 Up to 1.75	Up to 7.0 Up to 5.0
Material Compatibility	Optimized for Metal	Optimized for Metal	Optimized for Metal	Plastic & non-metallic substrates only	Optimized for Metal
IC Type	Alien Higgs 3	Alien Higgs 3	Monza 4QT	Alien Higgs 3	Monza 4QT

Physical and Environmental Specifications

	Fit 400 STANDARD	Fit 400 EMBEDDED	Fit 400 GLOBAL EMBEDDED	Fit 400P STANDARD	Fit 700 GLOBAL
Finish	Painted Black top & sides	Unpainted Ceramic	Unpainted Ceramic	Painted Black	Painted Black top & sides
Size (mm)	13.1 x 7.1 x 3.1	18 x 12 x 3.5	15 x 15 x 4.5	17.6 x 7.1 x 4.1	15 x 15 x 4.5
Weight (g)	1.6	3.9	6.7	2.6	4.8
Operation Temperature (°C)[1] Max Temperature Exposure (°C)[1]	-20 to +85°C -20 to +85°C	-20 to +85°C -20 to +85°C	-20 to +65°C -20 to +65°C	-20 to +85°C -20 to +85°C	-20 to +65°C -20 to +65°C
Ingress Protection	IP68	IP68	IP68	IP68	IP68
Shock and Vibration	MIL STD 810-G	MIL STD 810-G	MIL STD 810-G	MIL STD 810-G	MIL STD 810-G
Attachment	Film adhesive (included) Permanent liquid adhesive (option)	Omni-ID carrier (included)[3]	Omni-ID carrier (included)[3]	Film adhesive (included) Permanent liquid adhesive (option)	Film adhesive (included)
Order Codes (see datasheets for option codes)	051 - EU, US	128 - EU, US	131 - GS	052 - EU, US	135 - GS

1. Excludes adhesive options, consult adhesive datasheets for recommended temperature ratings.
2. The product has been designed for optimal RF performance when used with 130 micron +/-20% adhesive under the tag.
3. See Omni-ID Embedded Fit Tag User Guide for epoxy options.

Values for Comparison only, please refer to Product Datasheets for full specifications.