

Omni-ID® Fit 210

Omni-ID Fit 210 is a low profile, small form factor durable RFID tag. Designed to meet high impact and vibration requirements, the Fit 210 can be deployed in harsh industrial environments. Fit 210 also features a wide bandwidth, making it suitable for integration within finishing processes, such as dipping, coating, heat shrinking and moulding, for tools and other high value assets.

Building Intelligent Supply Chains

With its low profile, durable design, Omni-ID Fit 210 tags are ideally suited to tool tracking and embedding applications including attachment to:

- ▶ Hand Tools including wrenches and ratchet tools.
- ▶ Power tools.
- ▶ Integration within IT assets at point of manufacture.

Physical Specifications

Encasement	Durable Paint
Size (mm)	57.1 x 5.95 x 1.3
Size (in)	2.25 x 0.23 x 0.05
Weight (g)	1.0



Dimensions stated in mm

RF Specifications

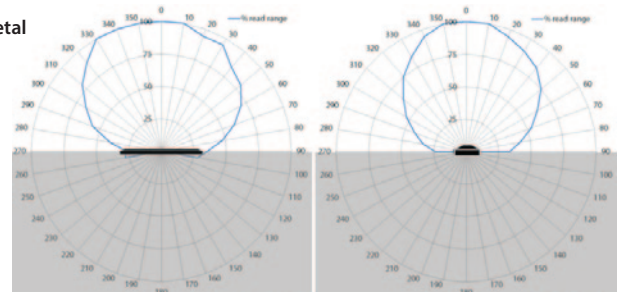
Protocol	EPC Class 1 Gen2
Frequency Range (MHz)	866-868 (EU) 902-928 (US)
Read Range (Fixed reader) ¹	Up to 3m (9.8ft)
Read Range (Handheld reader) ¹	Up to 1.8m (6ft)
Material Compatibility	Optimized for Metal substrates
IC Type (chip)	Alien H3
Memory ²	EPC - 96bits User - 512bits TID - 64bits

1. Quoted performance achieved using standard testing methodology. Read range will vary with reader hardware and output power.

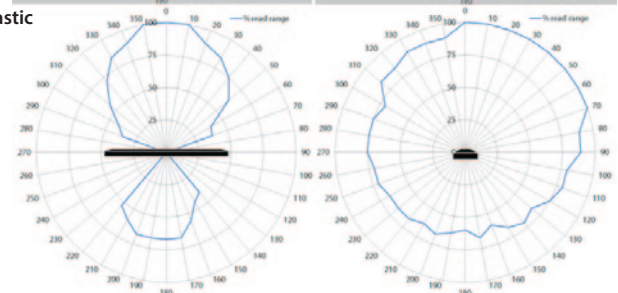
2. EPC and User memory are reprogrammable, TID is locked at point of manufacture.

Radiation Patterns

On Metal



On Plastic



Related Products and Services

- ▶ **Omni-ID Fit 200 and Fit 400** - Small footprint tags optimized for application to small metal assets and embedding
- ▶ **Omni-ID Fit 400 P**- Small footprint tag optimized for application to small plastic assets and embedding
- ▶ **Omni-ID Exo 210**- Ergonomic, low profile, high durability tag in a flexible housing, ideal for assets that are going to be handled.
- ▶ **Service Bureau** - Omni-ID offers a full service bureau for printing and pre-encoding Omni-ID tags at point of manufacture.



Environmental Specifications

Operating Temperature	-40 to +85°C
Long term Max Temperature ¹ exposure - (days,weeks,years)	+120°C
Short term Max Temperature ¹ exposure - (minutes,hours)	+150°C
IP Rating	IP68
Shock and Vibration	MIL STD 810-F
Impact ²	2kg from 1m
Attachment	Permanent liquid adhesive (not included) Film adhesive (option) Std Foam adhesive (option) Premium Foam adhesive (option)
Certifications	RoHS approved CE approved ATEX/IECEX certified (option) US&Canada (C1D1/D2) certified (option)
Warranty	1 year



1. Excludes adhesive options, consult adhesive data sheets for recommended temperature ratings.
2. Testing methodology available on request

Ordering Information

Order Numbers	041 – EU, US (Product reference) :304 (ATEX/IECEX certified) :307 (US&Canada (C1D1/D2) certified) :502 (film adhesive) :507 (standard foam) :508 (premium foam) :701 (Standard Service Bureau) :702 (Custom Service Bureau)
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