

Omni-ID® Fit 200

Omni-ID Fit 200 is an extremely small form factor RFID tag optimized for metal substrates. Designed for tracking very small metal assets, Fit 200 can survive cleaning processes including autoclaves, and is compatible with typical finishing processes, such as dipping, coating, heat shrinking and moulding for embedding into tools and other high value equipment.

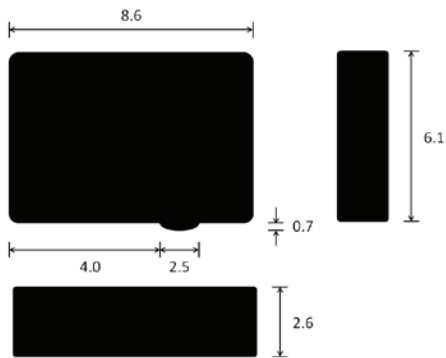
Building Intelligent Supply Chains

With its extremely small form factor, Omni-ID Fit 200 tags are ideally suited to tracking small metal assets including attachment to:

- ▶ Small Hand Tools including sockets.
- ▶ Metal IT assets including covert tagging.
- ▶ Medical devices.

Physical Specifications

Encasement	Durable Paint
Size (mm) (tolerance)	8.6 x 6.1 x 2.6 +/- 0.5
Size (in) (tolerance)	0.34 x 0.24 x 0.10 +/- 0.02
Weight (g)	0.8



Dimensions stated in mm

RF Specifications

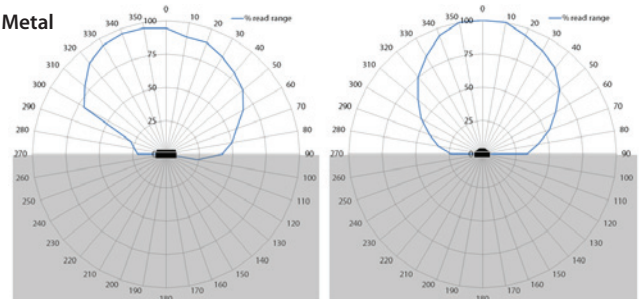
Protocol	EPC Class 1 Gen2
Frequency Range (MHz)	866-868 (EU) 902-928 (US)
Read Range (Fixed reader) ¹	Up to 2.5m (8.2ft)
Read Range (Handheld reader) ¹	Up to 1.25m (4.1ft)
Material Compatibility	On Metal only.
IC Type (chip)	Alien H3
Memory ²	EPC - 96bits User - 512bits TID - 64bits

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

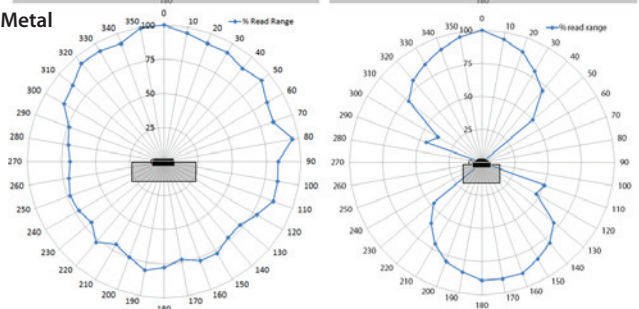
2. EPC and User memory are reprogrammable, TID is locked at point of manufacture.

Radiation Patterns

Large Metal Sheet



Small Metal Asset



Related Products and Services

- ▶ **Omni-ID Fit 210** - Low profile, on metal RFID tag optimized for application to small metal assets and for embedding.
- ▶ **Omni-ID Fit 400 and 400 P**- Small footprint tags with larger read distance optimized for metal and plastic assets respectively.
- ▶ **Omni-ID Exo 210**- Low profile, encapsulated, small form factor RFID tag with excellent high impact and vibration performance.
- ▶ **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
Attachment	Permanent liquid adhesive (not included) Film 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.

Ordering Information

Order Numbers	050 – EU, US :304 (ATEX/IECEX certified) :307 (US&Canada (C1D1/D2) certified) :502 (film adhesive) :701 (Standard Service Bureau) :702 (Custom Service Bureau)
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Omni-ID office locations: US | UK | China | India | Southeast Asia
For product or technology inquiries email: sales@omni-id.com