

Visit www.omni-id.com to learn more about the complete line of Omni-ID RFID products.



Omni-ID® Ultra

Omni-ID Ultra is a globally compliant, passive UHF tag with extreme read ranges of up to 35m, on, off or near metals and liquids. Designed for heavy industry and outdoor applications, Omni-ID Ultra features a high impact, water proof, durable encasement. Omni-ID Ultra is an excellent choice for tracking large assets in open storage environments, without the concern of a battery.

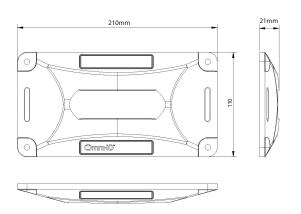
Applications

With its breakthrough RF performance, the Ultra RFID tag provides a cost-effective solution for applications which previously required semi-passive or active tags including:

- ▶ Cargo and Container tracking.
- ▶ Heavy equipment tracking and maintenance.
- ▶ Location identification in lay down zones.

Physical Specifications

Encasement	ABS or Polycarbonate
Size (mm) (tolerance)	210 x 110 x 21.0 (+/- 1 mm)
Size (in) (tolerance)	8.27 x 4.33 x 0.82 (+/- 0.04 in)
Weight (g)	265.0 (ABS) 292.0 (PC)



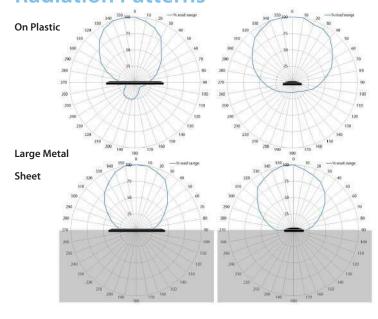
Dimensions stated in mm

RF Specifications

Protocol	EPC Class 1 Gen2
Frequency Range (MHz)	860–960 (global)
Read Range (Fixed reader) ¹	Up to 35.0 (global)
Read Range (Handheld reader) ¹	Up to 20.0 (global)
Material Compatibility	Metal and non-metallic 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





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Related Products and Services

- Omni-ID Max HD Long range, high durability RFID tag product for heavy industry applications involving metal.
- ▶ Omni-ID Max SQ-D- Extreme durability, long range and global operability in a small, square footprint, on metal RFID tag.
- ▶ Omni-ID IQ 800P- Large premium label for plastic assets.
- ▶ **Service Bureau** Omni-ID offers a full service bureau for printing and pre-encoding Omni-ID tags at point of manufacture.



Environmental Specification

	Operating Temperature	ABS: -40 to +65 °C PC: -40 to +100 °C
	Long term Max Temperature 1 exposure - (days,weeks,years)	ABS: +65 °C PC: +100 °C
	Short term Max Temperature ¹ exposure - (minutes,hours)	ABS: +75 °C PC: +120 °C
	IP Rating	IP68
	Shock and Vibration	MIL STD 810-F
	Impact	>25kg from 1m
	Attachment	Manual (standard) Standard foam adhesive (option) Premium foam adhesive (option)
	Certifications	RoHS approved CE approved ATEX/IECEx certified (option) US&Canada (C1D1/D2) certified (option)
	Warranty	3 years

^{1.} Excludes adhesive options, consult adhesive data sheets for recommended temperature ratings.

Ordering Information

Order Numbers 009 - GS

:302 (PC encasement) :304 (ATEX/IECEx certified)

:307 (US&Canada (C1D1/D2) certified)

:507 (std. foam), :508 (premium foam)

:701 (Standard Service Bureau) :702 (Custom Service Bureau)

For more information, contact:

Omni-ID Corporate Headquarters:

1200 Ridgeway Ave Rochester, NY 14615 USA

European Office:

The Enterprise Centre Coxbridge Business Park Alton Road, Farnham, Surrey GU10 5EH, United Kingdom

Asia Office:

Process Export zone
East of Road No.4 and South of Road No.2
Chengyang District
Qingdao
266113, P.R. China

For product or technology inquiries:

Email customer.services@omni-id.com

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