

Omni-ID[®] Exo 1000

Omni-ID Exo 1000 is a long read range passive UHF RFID tag capable of reading on, off, and near metal surfaces. Designed in a surprisingly small form factor, the Omni-ID Exo 1000 features a slightly less rugged design than the Exo 800, but with the benefit of a long read range of 10 meters and a lower cost. New to the Exo 1000 is a customization option for a transparent tag that provides full protection for printing within the tag case.

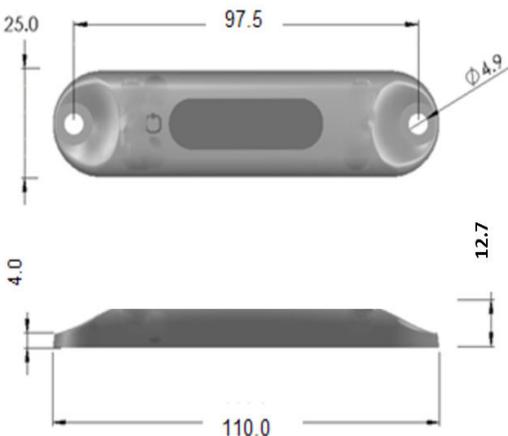
Applications

With a high read range, outstanding performance and durable service bureau options, the Omni-ID Exo 1000 is ideally suited to:

- ▶ Manufacturing tote tracking
- ▶ Logistics and postal
- ▶ Automotive & retail supply chain

Physical Specifications

Encasement	ABS Rigid Plastic
Size (mm)	110 x 25.0 x 12.7
Size (in)	4.33 x 0.98 x 0.50
Weight (g)	18.27



Dimensions stated in mm
Note: Grey tag and Transparent tag are the same size

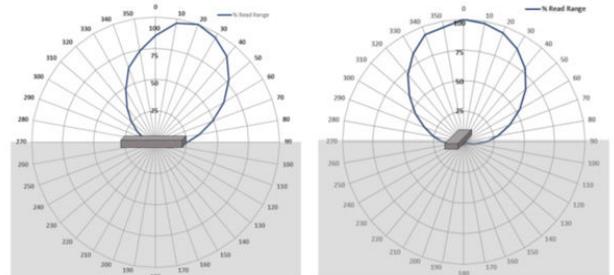
RF Specifications

Protocol	EPC Class 1 Gen2v2
Frequency Range (MHz)	860-930 (GS)
Read Range (Fixed reader) ¹	Up to 10.0m (on metal) Up to 10.0m (off metal)
Read Range (Handheld reader) ¹	Up to 8.0m (on metal) Up to 8.0m (off metal)
Material Compatibility	Optimized for Metal
IC Type (chip)	Impinj Monza 4QT
Memory ²	EPC - 128bit User - 512bits Unique TID - 48bits

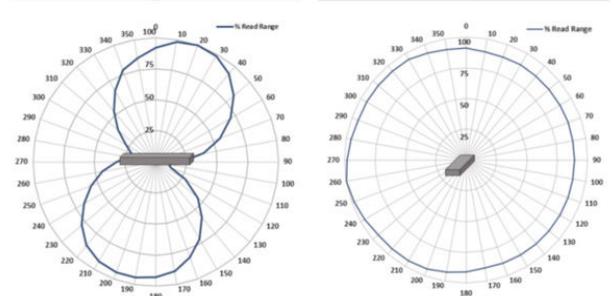
1. Quoted performance achieved using standard testing methodology. Read range will vary with reader hardware and output power.
2. EPC and User memory are reprogrammable, UTID is locked at point of manufacture.

Radiation Patterns

On Metal



Off Metal



Related Products and Services

- ▶ **Omni-ID Exo 400** - Small RFID tag with rugged encapsulation, capable of surviving temperatures to 235 °C.
- ▶ **Omni-ID Exo 600** - High performance, global RFID tag designed to meet the diverse needs of logistics industries.
- ▶ **Omni-ID Exo 800** - Long range passive UHF RFID tag capable of reading on, off and near metal surfaces.
- ▶ **Service Bureau** - Omni-ID offers a full service bureau for printing and pre-encoding Omni-ID tags at point of manufacture.



Environmental Specifications

Storage Temperature ¹	
Standard Grey ²	-40 ° to +85 °C
Transparent option	-40 ° to +70 °C

Operation Temperature ¹	
Standard Grey ²	-40 ° to +85 °C
Transparent option	-40 ° to +70 °C

Survivability ¹	
Standard Grey ²	-40 ° to +85 °C
Transparent option	-40 ° to +70 °C

IP Rating	IP68
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Shock and Vibration	MIL STD 810-G
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Impact ³	3kg from 1m
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Attachment	Mechanical (std) Premium Foam (option)
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Certifications	RoHS approved CE approved ATEX/IECEX certified (option) US&Canada (C1D1/D2) certified (option)
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Warranty	3 years
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¹ Excludes adhesive options, consult adhesive data sheets for recommended temperature ratings.

² Prolonged exposure to temperatures over 70°C may result in minor dimensional change to the case, attachment by rivets instead of adhesive is recommended.

³ Testing methodology available on request

Ordering Information

Order Code	162 - GS
Option Code	:303 (Customization) :304 (ATEX/IECEX certified) :307 (US&Canada (C1D1/D2) certified) :332 (Transparent case) :508 (Premium foam) :701 (Standard Service Bureau)



Transparent tags offer protection to product marking, MOQ 10k (:332)

Omni-ID office locations: **US | UK | China | India | Germany**
For product or technology inquiries email: sales@omni-id.com