

Omni-ID® Exo 800

Omni-ID Exo 800 is long 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 800 features a rugged design for long term use in outdoor and industrial environments. New to the Exo 800 is a customization option for a transparent tag that provides full protection for printing within the tag case.

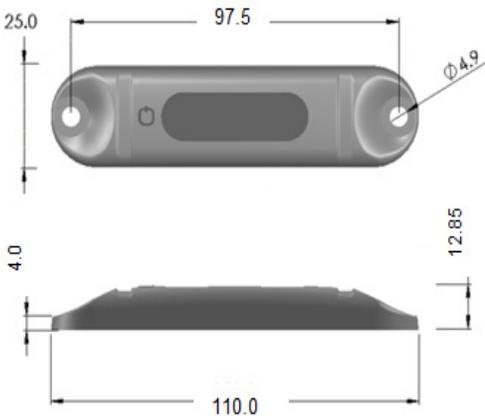
Applications

With a long read range and high durability, the Omni-ID Exo 800 is ideally suited to:

- ▶ Manufacturing tote tracking.
- ▶ Logistics and Postal
- ▶ Retail supply chain

Physical Specifications

Encasement	Grey ABS Rigid Plastic
Size (mm)	110 x 25 x 12.85
Size (in)	4.33 x 0.98 x 0.51
Weight (g)	26.0



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

RF Specifications

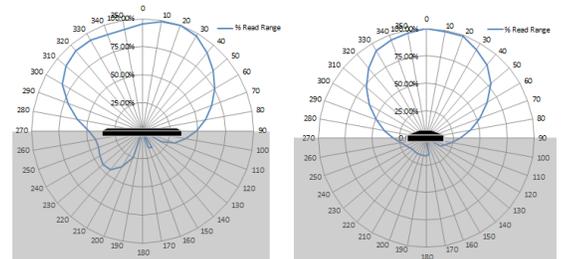
Protocol	EPC Class 1 Gen2v2
Frequency Range (MHz)	860-930 (GS)
Read Range (Fixed reader) ¹	Up to 8.0m (on metal) Up to 6.0m (off metal)
Read Range (Handheld reader) ¹	Up to 4.0m (on metal) Up to 3.0m (off metal)
Material Compatibility	Optimized for Metal
IC Type (chip)	Impinj Monza 4QT
Memory ²	EPC - 128bit User - 512bits Unique TID - 48bits

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

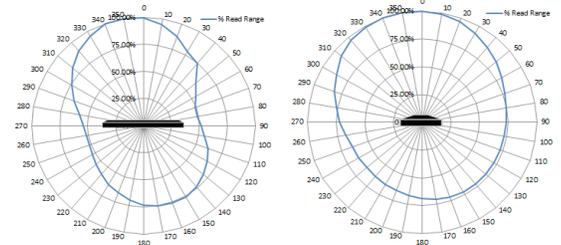
²EPC and User memory are reprogrammable, UTID is locked at point of manufacture.

Radiation Patterns

On Metal



On Plastic



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 1000** - Long read range RFID tag in a small form factor, slightly less rugged, but with a lower cost.
- ▶ **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	-40 ° to +85 °C
Operation Temperature ¹	-40 ° to +85 °C
Survivability ¹	-40 ° to +85 °C
IP Rating	IP68
Shock and Vibration	MIL STD 810-G
Impact ²	10kg from 1m
Attachment	Mechanical (std) Cable Tie Premium Foam (option)
Certifications	RoHS approved CE approved ATEX/IECEX certified (option) US&Canada (C1D1/D2) certified (option)
Warranty	3 years

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

²Testing methodology available on request



Ordering Information

Order Code	077- 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)



Laser Marking is a Standard Service Bureau Option (:701)
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