



## Omni-ID Max® HD

Omni-ID Max HD is the most durable and long range Max tag product offering long read ranges across all geographies. Designed with heavy industry in mind, the Omni-ID Max HD features extreme impact resistance and high temperature ratings, enabling it to be deployed in outdoor heavy industry environments anywhere in the world.

## Applications

With an excellent read range across all geographic regions and a durable, high heat resistant encasement, the Max HD is best suited to outdoor applications, including:

- ▶ Container tracking for yard management.
- ▶ Cargo tracking.
- ▶ Defense asset management.

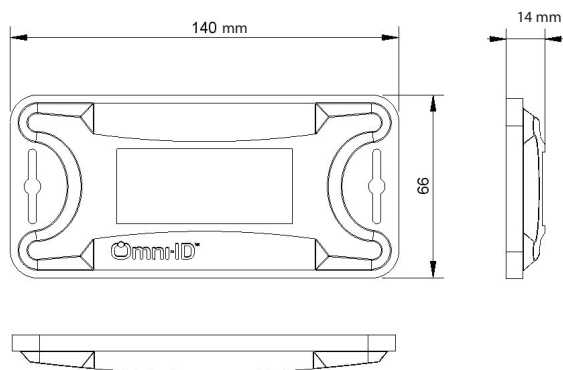
## Physical Specifications

Encasement ABS or Polycarbonate

Size (mm)  
(tolerance) 140 x 66 x 14.0  
(+/-1.0)

Size (in)  
(tolerance) 5.51 x 2.6 x 0.55  
(+/-0.04)

Weight (g) 79.0 (ABS)  
82.0 (PC)



Dimensions stated in mm

## RF Specifications

|   |  |
|---|--|
| Protocol                                  | EPC Class 1 Gen2                               |
| Frequency Range (MHz)                     | 860–960 (global)                               |
| Read Range (Fixed reader) <sup>1</sup>    | Up to 15.0 (global)                            |
| Read Range (Handheld reader) <sup>1</sup> | Up to 7.5 (global)                             |
| Material Compatibility                    | Optimized for metal                            |
| IC Type (chip)                            | Alien H3                                       |
| Memory <sup>2</sup>                       | EPC - 96bits<br>User - 512bits<br>TID - 64bits |

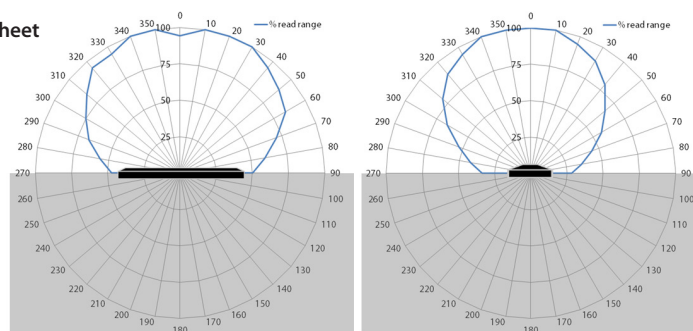
1. Quoted performance achieved using standard testing methodology. Read range will vary with reader hardware and output power.

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

## Radiation Patterns

### Large Metal

#### Sheet



## Related Products and Services

- ▶ **Omni-ID Max Rigid** - High performance, long range RFID tag product for outdoor applications involving metal and plastic assets.
- ▶ **Omni-ID Max SQ-D** - Extreme durability, long range and global operability in a small, square footprint, on metal RFID tag.
- ▶ **Omni-ID IQ 800 P** - 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<br>PC: -40 to +100 °C  |
| Long term Max Temperature <sup>1</sup><br>exposure - (days,weeks,years) | ABS: +65 °C<br>PC: +100 °C  |
| Short term Max Temperature <sup>1</sup><br>exposure - (minutes,hours)   | ABS: +75 °C<br>PC: +120°C   |
| IP Rating   | IP68  |
| Shock and Vibration   | MIL STD 810-F   |
| Impact  | >25kg from 1m   |
| Attachment  | Manual (standard)<br>Standard foam adhesive (option)<br>Premium foam adhesive (option)                  |
| Certifications  | RoHS approved<br>CE approved<br>ATEX/IECEX certified (option)<br>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 | 008 - GS<br>:302 (PC)<br>:304 (ATEX/IECEX certified)<br>:307 (US&Canada (C1D1/D2) certified)<br>:507 (std. foam),<br>:508 (premium foam)<br>:701 (Standard Service Bureau)<br>:702 (Custom Service Bureau) |
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