

Omni-ID® IQ 600

Omni-ID IQ 600 Ultrathin labels provide on metal tag functionality, within a low profile label. Supplied in roll form, the Omni-ID IQ 600 has been optimized for thermal barcode printers, enabling low cost and hassle-free RFID deployment. The consistency and reliability of the IQ 600 redefines the standard for on metal and on liquid RFID tagging, enabling new applications and revolutionizing integration into manufacturing and supply chain processes.

Applications

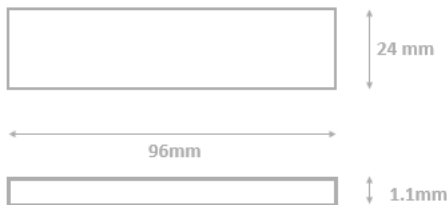
With innovative construction and thermal barcode printer compatibility, the Omni-ID IQ 600 label is ideal for applications such as:

- ▶ Logistics involving metal produce or packaging
- ▶ Pipe manufacturing and re-certification
- ▶ IT, office & hospital assets tracking applications

Physical Specifications

| | |
|---------------------------------------|--|
| Material | White synthetic label |
| Size (mm) ¹ (tolerance) | 96.0 x 24.0 x 1.3 with ground plane 96.0 x 24.0 x 1.2 without ground plane (+/- 0.5) |
| Size (in) ¹ (tolerance) | 3.78 x 0.94 x 0.05 with ground plane 3.78 x 0.94 x 0.05 without ground plane (+/-0.02) |
| Weight (g) | 2.0 |

¹Product dimensions shown above are the maximum. Batch to batch variation could be within 5%. Unspliced sections will be within 0.2mm tolerance.



Dimensions stated in mm
Supply format = 500 labels per roll

RF Specifications

| | |
|-------------------------|------------------------------|
| Protocol | EPC Class 1 Gen2v2 |
| Frequency Range (MHz) | 866-868 (EU) 902-928 (US) |
| Material Compatibility* | |
| With ground plane | Optimized for all materials |
| Without ground plane | Suitable for bare aluminum |

*See IQ On-Metal Labels User Guide for further detail.

IC Types

| Read Range with ground plane | Impinj Monza R6-P (standard) | Impinj Monza 4QT (custom option) |
|------------------------------|--|---|
| Fixed Reader ¹ | Up to 6m | Up to 5m |
| Handheld Reader ¹ | Up to 3m | Up to 2.5m |
| Memory ² | EPC - 128(96) bits User - 32(64) bits Unique TID - 48 bits | EPC - 128 bits User - 512 bits Unique TID - 48 bits |

¹ Quoted performance achieved using standard testing methodology on Aluminium test plates. Read range is dependent on multiple factors such as; RFID reader transmit power and receiver sensitivity, asset material and environment. Please see the Omni-ID On Metal User Guide for more detail.

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

Related Products and Services

- ▶ **Omni-ID IQ 150** – The smallest ultrathin label, easy to deploy and optimized for thermal barcode printers.
- ▶ **Omni-ID IQ 350** – Smallest size to performance RFID label in the market, optimized for thermal barcode printers.
- ▶ **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 Specifications

| | |
|---------------------------------------|--|
| Operation Temperature ¹ | -40 to +85°C |
| Max Temperature Exposure ¹ | -40 to +85°C |
| Application Temperature ¹ | +18 to +35°C |
| IP Rating | IP68 |
| Attachment | Self-adhesive suitable for curved surfaces to a minimum radius of 58mm |
| Certifications | RoHS approved CE approved (option) |
| Printer Compatibility ^{2,3} | Sato, Zebra |
| Warranty | 1 year |

Certifications



RoHS approved
CE approved (option)

1. Excludes adhesive options, consult adhesive data sheets for recommended temperature ratings.
2. Omni-ID labels are compatible with many leading printers. Contact us for more detail.
3. See Omni-ID printer guides for details on calibrating and operation.

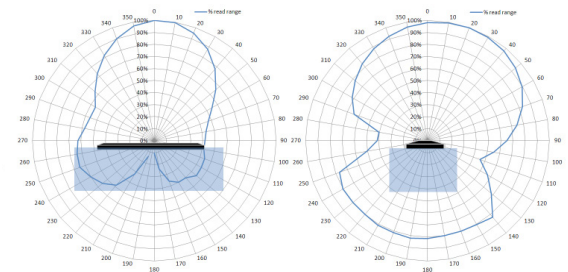
See the **IQ On Metal Labels User Guide** for details on available IC & Ground Plane product options.



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

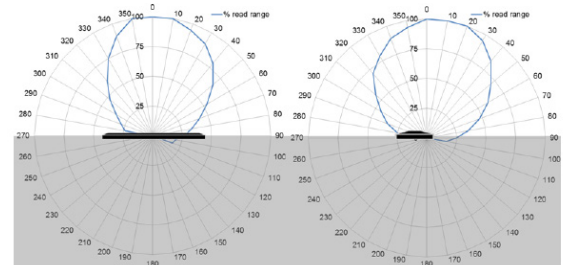
Radiation Patterns

On Liquid



Large Metal

Sheet



Ordering Information

| | |
|---------------|---|
| Order Numbers | 133 – EU, US with Monza R6 -P 134 – EU, US with Monza 4QT (custom) |
| Options: | :303 Customization - 4 color static print :315 Overlamination :329 Without ground plane :701 (Standard Service Bureau) |
| Supply Format | 500 labels per roll |

| | | |
|------------------------|---------------------|---------------|
| Minimum Order Quantity | R6-P | M4QT (custom) |
| Standard label | 500 labels (1 roll) | 10,000 labels |
| Service bureau | 500 labels (1 roll) | 10,000 labels |
| Customization | 10,000 labels | 10,000 labels |
| Overlamination | 10,000 labels | 10,000 labels |