

## 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.

## Building Intelligent Supply Chains

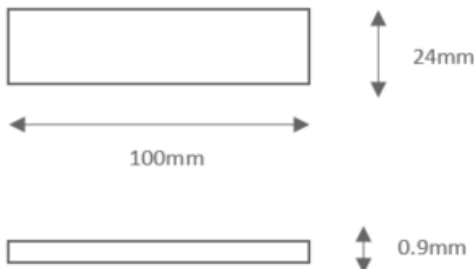
With innovative construction and thermal barcode printer compatibility, the Omni-ID IQ 600 label is ideal for applications such as:

- ▶ 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) <sup>1</sup> (tolerance)	100.0 x 24.0 x 1.0 with ground plane 100.0 x 24.0 x 0.9 without ground plane (+/- 0.5)
Size (in) <sup>1</sup> (tolerance)	3.94 x 0.98 x 0.039 with ground plane 3.94 x 0.98 x 0.035 without ground plane (+/-0.02)

<sup>1</sup> Product dimensions may vary but will be no longer than the dimensions stated above.



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	
Standard Label with ground plane	Optimized for all materials
Custom Label without ground plane	Suitable for bare aluminum

### IC Types

Read Range with ground plane	Impinj Monza R6 (standard)	Impinj Monza 4QT (option)
Fixed Reader <sup>1</sup>	Up to 6m	Up to 5m
Handheld Reader <sup>1</sup>	Up to 3m	Up to 2.5m
Memory <sup>2,3</sup>	EPC - 96 bits User - 0 bits TID - 48 bits	EPC - 128 bits User - 512 bits TID - 48 bits

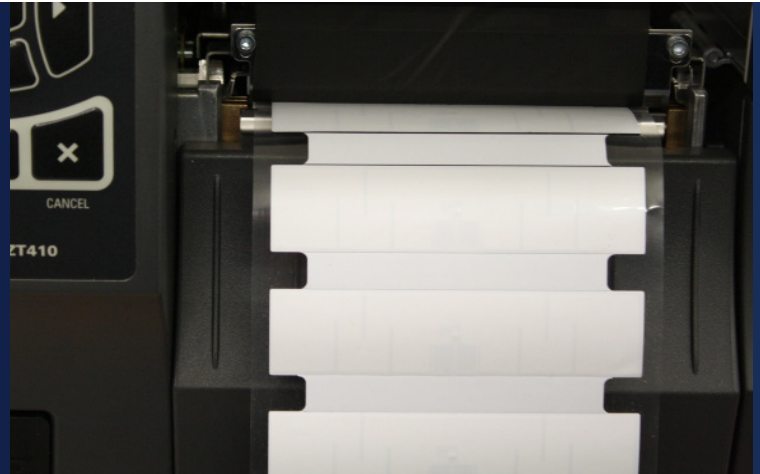
<sup>1</sup> Quoted performance achieved using standard testing methodology on Aluminium test plates. Read range is dependent on multiple factors such as; RFID reader transmit power and receiver sensitivity, asset material and environment. Please see the Omni-ID On Metal User Guide for more detail.

<sup>2</sup> EPC and User memory are reprogrammable, TID is locked at point of manufacture by IC manufacturer

<sup>3</sup> Monza R6 cannot be permalocked using current commercially available hardware & software.

## Related Products and Services

- ▶ **Omni-ID Prox NG** – Market leading, small form factor tag for mixed plastic and metal IT asset environments in global enterprises.
- ▶ **Omni-ID IQ 150** – The smallest ultrathin label, easy to deploy and 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.



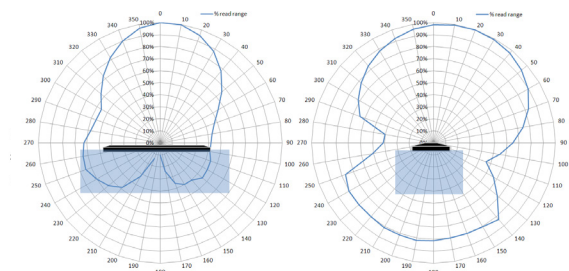
## Environmental Specifications

Operation Temperature <sup>1</sup>	-20 to +85°C
Max Temperature Exposure <sup>1</sup>	-20 to +85°C
IP Rating	IP68
Attachment	Self-adhesive suitable for curved surfaces to a minimum radius of 58mm.
Printer Validations	Sato <sup>2,3</sup>
Certifications	RoHS approved CE approved (option)
Warranty	1 year

1. Excludes adhesive options, consult adhesive data sheets for recommended temperature ratings.
2. Printer validation for Standard Version - Sato CL4NX. See Omni-ID Sato NXSeries Printer Guide for details on calibrating and operation.

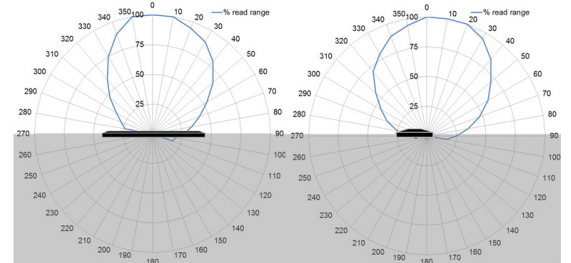
## Radiation Patterns

### On Liquid



### Large Metal

### Sheet



See the **Omni-ID 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](mailto:sales@omni-id.com)

## Ordering Information

Order Numbers	133 – EU, US with Monza R6 134 – EU, US with Monza 4QT
Options	:303 Customization - color print :315 Overlamination :329 Without ground plane :701 (Standard Service Bureau)

Supply Format 500 labels per roll

Minimum Order Quantity - R6	
Standard label	1,000 labels (2 rolls)
Service bureau	1,000 labels (2 rolls)
Customization	10,000 labels
Overlamination	10,000 labels