

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) ¹ (tolerance)	96.0 x 24.0 x 1.1 with ground plane 96.0 x 24.0 x 1.0 without ground plane (+/- 0.5)
Size (in) ¹ (tolerance)	3.78 x 0.94 x 0.04 with ground plane 3.78 x 0.94 x 0.04 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. Please see the [IQ On Metal Labels User Guide](#) for further details.



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 ¹	Up to 6m	Up to 5m
Handheld Reader ¹	Up to 3m	Up to 2.5m
Memory ^{2,3}	EPC - 96 bits User - 0 bits TID - 48 bits	EPC - 128 bits User - 512 bits TID - 48 bits

¹Quoted 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.
²EPC and User memory are reprogrammable, TID is locked at point of manufacture by IC manufacturer
³Monza 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 Temperature¹ -20 to +85°C

Max Temperature Exposure¹ -20 to +85°C

Application Temperature¹ +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 Validations^{2,3} Sato

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

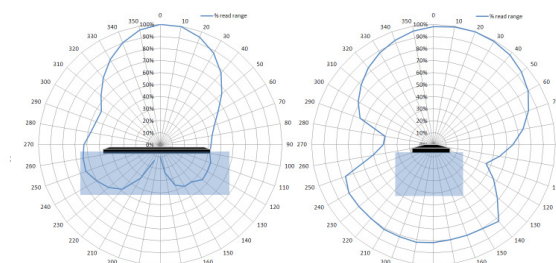
See the **IQ On Metal Labels User Guide** for details on available IC & Ground Plane product options.



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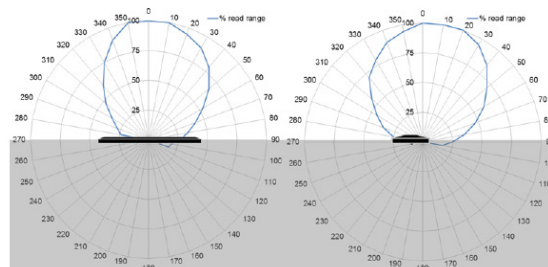
Radiation Patterns

On Liquid



Large Metal

Sheet



Ordering Information

Order Numbers	133 – EU, US with Monza R6 134 – EU, US with Monza 4QT
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	M4QT
Standard label	1,000 labels	10,000 labels
Service bureau	1,000 labels	10,000 labels
Customization	10,000 labels	10,000 labels
Overlamination	10,000 labels	10,000 labels