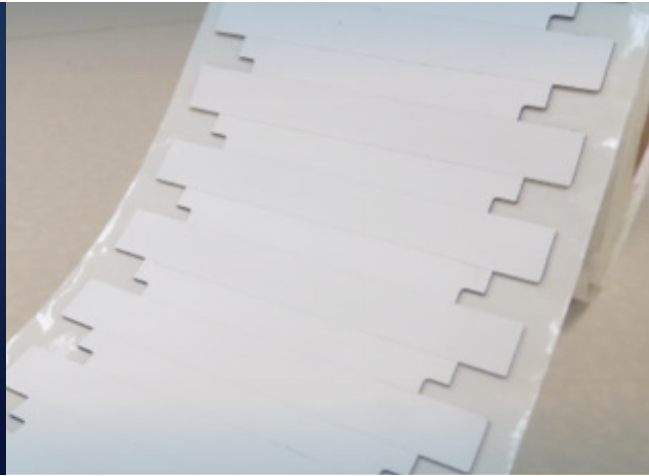# Omni-ID® IQ 400

Omni-ID IQ 400 Ultrathin labels provide on metal tag functionality, within a low profile, easy to deploy label. The Omni-ID IQ 400 has been optimized for thermal barcode printers, enabling low cost and hassle-free RFID deployment. With its consistency and reliability, the IQ 400 redefines the standard for on metal tagging for applications demanding a very small narrow label.
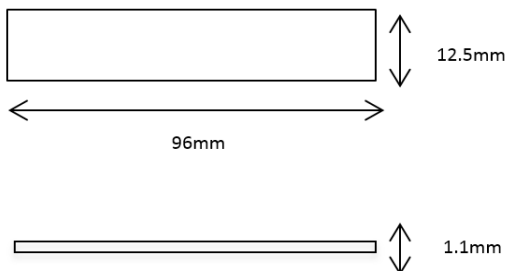
Applications

With innovative construction and thermal barcode printer compatibility, the Omni-ID IQ 400 label is ideal for hassle free deployment of RFID applications such as:

▸ IT and Office asset tracking

▸ Hospital and medical equipment

▸ Weapons, pipes, road signs

▸ Tools and kitchen assets

RF Specifications

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

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

Physical Specifications

Material	White synthetic label
Size (mm)[1]	96.0 x 12.5 x 1.1 with ground plane 96.0 x 12.5 x 1.0 without ground plane
Size (in)[1]	3.78 x 0.49 x 0.04 with ground plane 3.78 x 0.49 x 0.04 without ground plane
Weight (g)	0.30

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

IC Types

Read Range with ground plane	Impinj Monza R6-P (standard)	Impinj Monza 4QT (custom option)
Fixed Reader[1]	Up to 4.2	Up to 3.5
Handheld Reader[1]	Up to 2.4	Up to 2.4
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 Aliminium 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.

12.5mm

96mm

1.1mm

Dimensions stated in mm
Supply format = 500 labels per roll

Related Products and Services

▶ **Omni-ID IQ 150 –** The smallest ultrathin label, easy to deploy and optimized for thermal barcode printers.

▶ **Omni-ID IQ 600 –** Ultrathin label providing on metal tag functionality, low cost and hassle free deployment.

▶ **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

Operating Temperature[1]	-40 to +85℃
Max Temperature Exposure [1]	-40 to +85℃
Application Temperature[1]	+18 to +35℃
IP Rating	IP68
Attachment	Self-adhesive suitable for curved surfaces to a minimum radius of 58mm
Certifications	RoHS approved CE approved
Printer Compatibility[2,3]	Sato, Zebra, Honeywell
Warranty	1 year

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 Guid**e for details on available IC & Ground Plane product options.
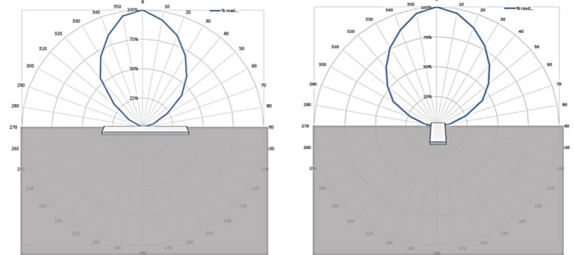
Radiation Patterns

On Metal

On Liquid
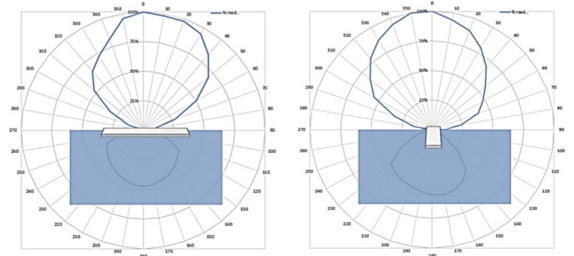
Ordering Information

Order Numbers	141 – EU, US with Monza R6-P 142 – EU, US with Monza 4QT (custom)
Order 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	10,000 labels
Service bureau	500 labels	10,000 labels
Customization	10,000 labels	10,000 labels
Overlamination	10,000 labels	10,000 labels

Omni-ID office locations: US | UK | China | India | Germany

For product or technology inquiries email: sales@omni-id.com

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