Omni-ID[®]

Visit www.omni-id.com to learn more about the complete line of Omni-ID RFID products.



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

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

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 = 1000 labels per roll

RF Specifications

Protocol Frequency Range (MHz)

Material Compatibility* With ground plane Without ground plane EPC Class 1 Gen2v2

866-868 (EU) 902-928 (US)

Optimized for all materials 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 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

¹Quoted 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.

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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.



Radiation Patterns









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	1000 labels per roll
Minimum Order Quantity*	1,000 labels or 1 roll

Environmental Specifications

Operating 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
Printer Compatibility ^{2,3}	Sato, Zebra
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 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