Omni-ID® IQ 100

The IQ 100 label is our first to market Global, small form factor, on metal label. Optimized for thermal barcode printers, the IQ 100 enables low cost and hassle-free RFID deployment. The IQ 100 redefines the standard for consistency and reliability for tagging applications demanding a very small tag with Global capabilities.
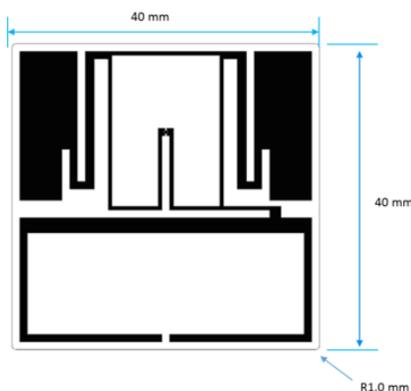
Applications

With innovative construction and excellent thermal barcode printer compatibility, the Omni-ID IQ 100 label is ideal for hassle free deployment of RFID applications such as:

▸ IT and office assets

▸ Hospital tracking applications

▸ Tools and kitchen assets

▸ Weapons, pipes, road signs

Physical Specifications

Material	White synthetic label
Size (mm)[1]	40.0 x 40.0 x 1.1
Size (in)[1]	1.57 x 1.57 x 0.04
Weight (g)	.35

[1]Product 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
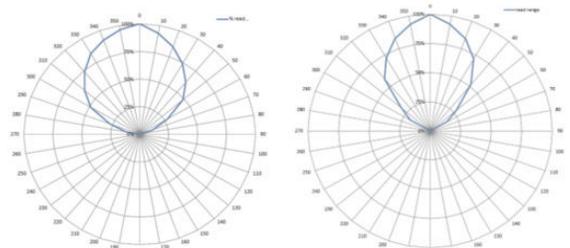Supply format = 500 labels per roll

RF Specifications

Protocol	EPC Class 1 Gen2v2
Frequency Range (MHz)	860 - 930 (GS)
Read Range (Fixed Reader)	Up to 1.1
Read Range (Handheld Reader)	Up to 0.5
Material Compatibility	Optimized for all materials
IC Type (chip)	Monza R6-P
Memory[2]	EPC - 128 bits User - 32(64) 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.
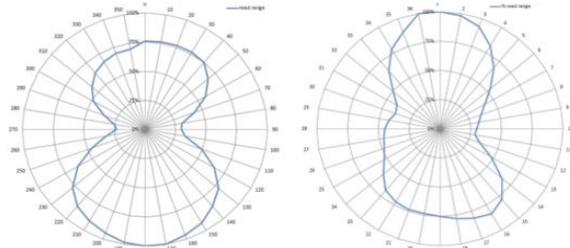
[2] EPC and User memory are reprogrammable, UTID is locked at point of manufacture by IC manufacturer.

Radiation Patterns

On Metal

On Liquid

Related Products and Services

▶ **Omni-ID IQ 150 –** Ultrathin small form factor label providing on metal tag functionality supplied as a roll with hassle free printing.

▶ **Omni-ID IQ 400 –** Low profile, very narrow, reliable label optimized for thermal barcode printers.

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

▶ **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]	-20 to +85°C
Max Temperature Exposure [1]	-20 to +85°C
Application Temperature[1]	+18°C 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]	Honeywell, Sato

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.

Ordering Information

Order Numbers	139 – GS
Options:	:303 Customization - 4 color static print :315 Overlamination :701 Standard Service Bureau
Supply Format	500 labels per roll
Minimum Order Quantity	
Standard label	500 labels (1 roll)
Service bureau	500 labels (1 roll)
Customization	10,000 labels
Overlamination	10,000 labels