

Omni-ID® Flex 1600

Omni-ID Flex 1600 is a low profile, cost effective RFID tag with superior RF performance. Supplied with an over laminate surface for increased durability, the Flex 1600 is designed specifically as a lower cost alternative to hard tags for applications demanding the protection of an over laminate and a read range of up to 16 meters.

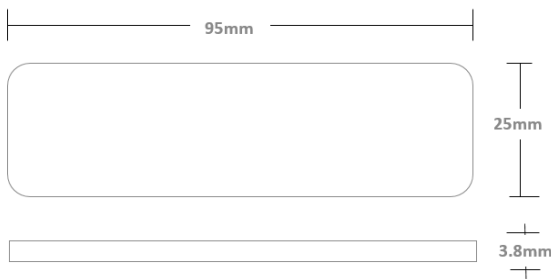
Applications

With its low profile, consistent RF performance, the Flex 1600 is ideally suited to applications such as:

- ▶ Office equipment
- ▶ Light outdoor use
- ▶ Returnable transit items (RTI's)

Physical Specifications

Coverstock	White synthetic label with transparent over laminate
Size (mm)	95.0 x 25.0 x 3.80
Size (in)	3.74 x 0.98 x 0.15
Weight (g)	2.70



Dimensions stated in mm

RF Specifications

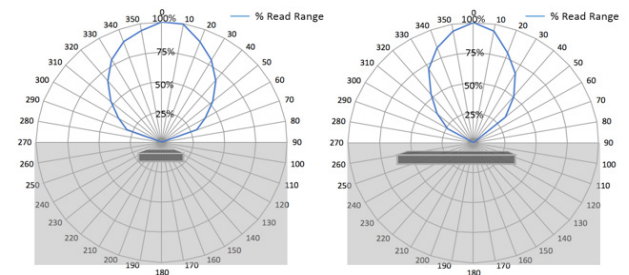
Protocol	EPC Class 1 Gen2V2
Frequency Range (MHz)	902 - 928 (US) 866 - 868 (EU)
Read Range (Fixed Reader) ¹	Up to 16m (on metal) Up to 8m (off metal)
Read Range (Handheld Reader) ¹	Up to 8m (on metal) Up to 4m (off metal)
Material Compatibility	Optimized for Metal
IC Type (chip)	Impinj Monza R6-P
Memory ²	EPC - 128(96) 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.

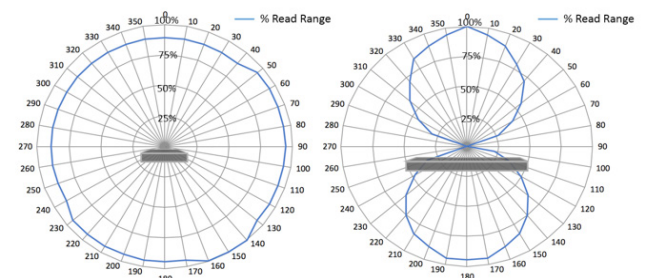
² EPC and User memory are reprogrammable, UTID is locked at point of manufacture by IC manufacturer.

Radiation Patterns

On Metal



Off Metal



Related Products and Services

- ▶ **Omni-ID IQ 600** - Ultrathin label providing on metal tag functionality, low cost and hassle free deployment.
- ▶ **Omni-ID Flex 600** - Low profile, cost effective tag, ideal for office equipment and portal setups.
- ▶ **Omni-ID Flex 1200** - Low cost alternative to hard tags for applications requiring read ranges of up to 12 meters.
- ▶ **Service Bureau** - Omni-ID offers a full service bureau for printing and pre-encoding Omni-ID tags at point of manufacture.



Environmental Specifications

Storage Temperature -40 ° to +85 °C

Operation Temperature¹ -40 ° to +85 °C

Survivability -40 ° to +85 °C

IP Rating IP68

Shock and Vibration MIL STD 810-G

Attachment Film adhesive (std)

Certifications



RoHS approved
CE approved
ATEX/IECEX certified (option)
US&Canada (C1D1/D2) certified (option)

Warranty 1 year

¹ Excludes adhesive options, consult adhesive data sheets for recommended temperature ratings.

Ordering Information

Order code 151 - US, EU

Order options
:303 (Customization)
:304 (ATEX/IECEX certified)
:307 (US&Canada (C1D1/D2) certified)

Supplied in rolls of 900 tags. Minimum order quantity is 1 roll.

Omni-ID office locations: US | UK | China | India | Germany
For product or technology inquiries email: sales@omni-id.com