

LRT

UHF Large Rigid RFID Tag



- Rugged encapsulation for harsh environments
- Consistent UHF range performance worldwide
- Available with Gen 2 and ISO 18000-6B silicon
- Delivers superior performance on a variety of materials
- Reusable for lower cost per use
- RoHS and WEE compliant

Intermec's Large Rigid tag is a truly passive UHF radio frequency identification (RFID) transponder that delivers superior performance on a variety of surfaces including plastic, wood and metal. The tag, available in both EPC Global Class 1, Generation 2 (Gen 2) and ISO 18000-6B protocols, combines an impressive range with a rugged yet compact package designed for harsh industrial applications and temperatures ranging from -40° to 250° F (-40° to +121° C). No other tag on the market can claim the ruggedness and worldwide usability of these tags.

The Large Rigid tag has a wide band antenna design, which allows for a single tag to be used virtually anywhere in the world with consistent UHF range performance. The EPC Global Gen 2 version of the large Rigid Tag has 96 bits of memory, while the ISO 18000-6B version has 2048 bits of memory. Additionally, the tag has a robust physical package and is designed for exposure to substances and harsh chemicals representative of typical industrial applications, including machining oil, gasoline, motor oil, methyl ethyl ketone (MEK), isopropyl alcohol, methyl alcohol, mineral spirits, acetone, and kerosene.

Typical applications include:

- Tractors and trailers
- Reusable plastic containers (RPC)
- Metal cages
- Wood and plastic pallets
- Unit loading devices (ULD)

Attachment Methods

The tag can be attached using screws, rivets, double-sided adhesive strips, or a variety of other methods appropriate for the application, and includes two mounting holes for up to #6 hardware (not included).

Reader Compatibility

Intermec manufactures a complete line of readers that are compatible with the large Rigid Tags as indicated in the table below.

Tag Type	Intermec Reader Models
EPC Global Gen 2	IP4 Hand-Held Reader
	IF4 Fixed Serial Reader
	IF5 Fixed Network Reader
	IV7 Vehicle Mount Reader
ISO 18000-6B	IP3 Hand-Held Reader
	IP4 Hand-Held Reader
	Pennsylvania Fixed Serial Reader
	IF4 Fixed Serial Reader
	IF5 Fixed Network Reader
IV7 Vehicle Mount Reader	

The EPC Global Gen 2 and ISO 18000-6B large Rigid Tags are also compatible with competitive readers operating under the established standards for the respective Gen 2 and 18000-6B protocols.

Application Temperature

-40°F to 250°F (-40°C to 121°C)

Chemical Resistance

- Machining oil and fluid
- Gasoline
- Motor oil
- Methyl Ethyl Ketone (MEK)
- Isopropyl alcohol
- Methyl alcohol
- Mineral spirits
- Acetone
- Kerosene

Optimal Frequencies of Operation

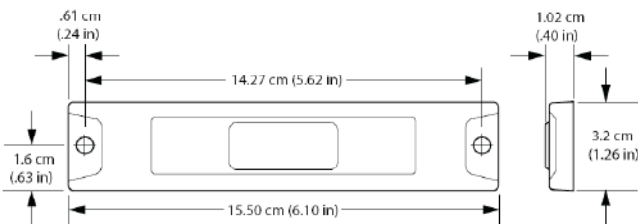
- ISO 18000-6B: 860 MHz to 930 MHz
- EPCglobal Gen 2: 860 MHz to 960 MHz

Note

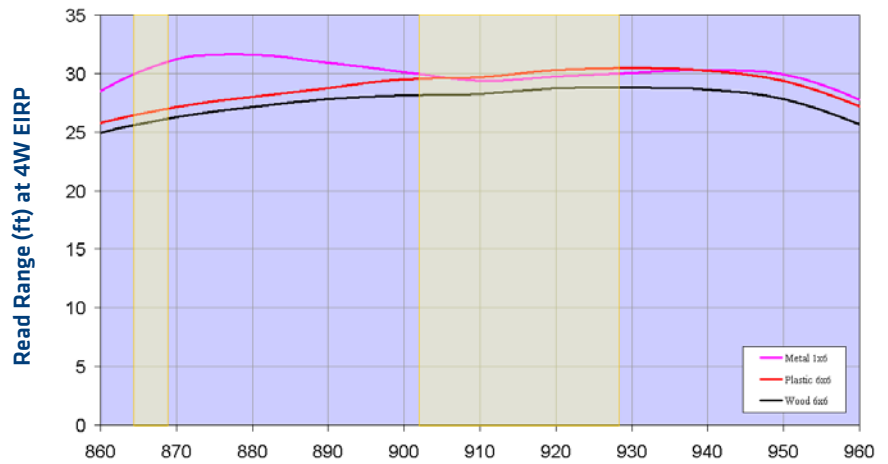
Actual range performance may vary depending on power output, temperature and other environmental factors.

Size

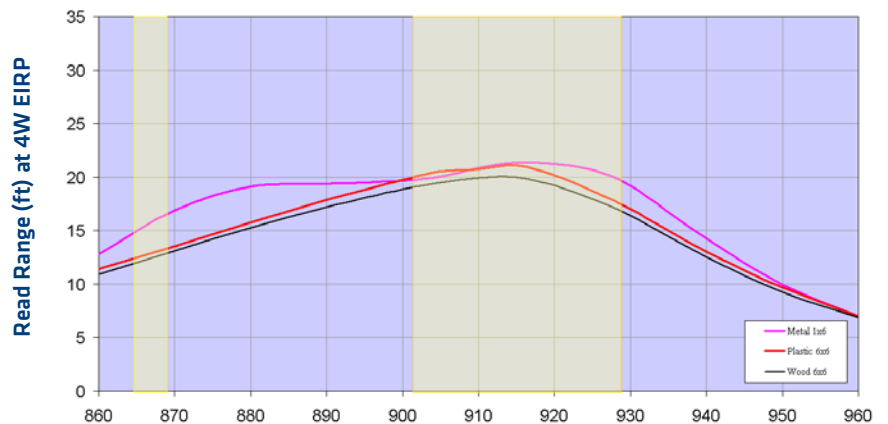
3.2 cm x 14.27 cm (1.26 in x 6.1 in)



Read Range Performance of Large Gen 2 Rigid Tag



Read Range Performance of Large ISO 18000-6B Rigid Tag



Available Silicon & Memory Size

Air Interface	Silicon Type	Memory Size	Comments
EPC Global Class 1 Generation 2	Impinj Monza	96 bits	Unprogrammed
ISO 18000-6B	Philips UCODE HSL	2048 bits	Includes pre-programmed and locked unique ID per ISO 18000-6B specification

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