

# IT65

## Large Rigid Tag

Durable Passive UHF RFID Tag



- Rugged encapsulation for harsh environments
- Consistent range performance worldwide
- EPCglobal Class-1, Generation-2 (Gen 2)
- Superior performance on a variety of materials
- Reusable for lower cost per use
- RoHS and WEE compliant

Intermec's IT65 Large Rigid Tag (LRT) is an EPCglobal Class-1, Generation-2 (Gen 2) passive UHF RFID transponder that delivers superior performance on a variety of surfaces including plastic, wood and metal. The tag is designed to support a global UHF frequency band, which enables it to be used virtually anywhere in the world while maintaining superior read range performance.

The tag's rugged, compact package is designed for harsh environments with temperatures ranging from -40° to 250° F (-40° to +121° C). The robust physical package is designed for exposure to substances and 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.

No other tag on the market offers the combination of superior long-range performance, ruggedness, and worldwide compatibility of the IT65.

#### Typical applications include:

- Shipping containers
- Trailers
- Heavy machinery
- Metal cages
- Unit Loading Devices (ULDs)

#### 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 IT65 Large Rigid Tag, including:

- IF2 Network Reader
- IF61 Enterprise Reader
- IP30 Handheld Reader
- IV7 Vehicle Mount Reader

The IT65 tag is also compatible with competitive readers operating under the established EPCglobal Gen 2 protocol standard

## Air Interface

EPCglobal Class-1, Generation-2 (Gen 2)

## Silicon Type

Impinj Monza 1a  
96 bit EPC code, unprogrammed

## Operating Frequency

UHF global 860 - 960 MHz

## Temperature Range

-40°F to 250°F (-40°C to 121°C)

## Chemical Resistance

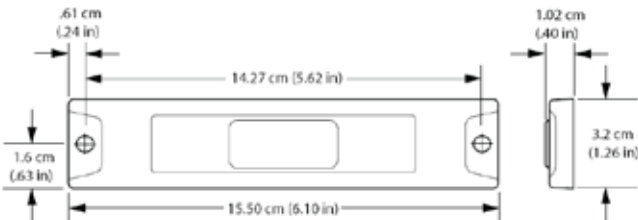
- Machining oil and fluid
- Gasoline
- Motor oil
- Methyl Ethyl Ketone (MEK)
- Isopropyl alcohol
- Methyl alcohol
- Mineral spirits
- Acetone
- Kerosene

## Size

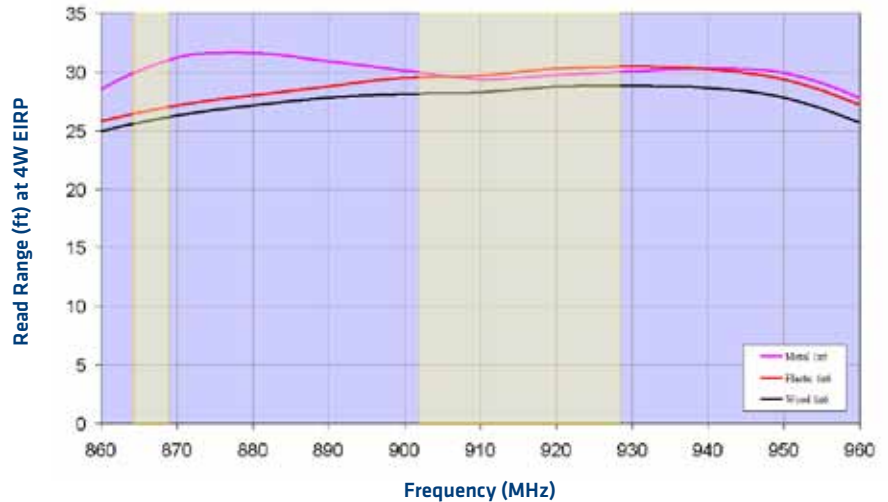
Length: 155 mm (6.10")

Width: 32 mm (1.26")

Thickness: 10.2 mm (0.40")



## Read Range Performance of Gen 2/18000-6C Large Rigid Tag



## Note

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

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