

# DIMENSION4

## UWB Mini Tag

### OVERVIEW

The Ubisense DIMENSION4 Mini Tag is a small, self-contained device that can be attached to smaller assets, carried or worn by people allowing them to be accurately located in real-time in three dimensions.

It is very rugged, dust- and water-resistant to IP69K, and includes additional features such as an LED for easy status identification, a motion detector to instantly activate a stationary tag, and a magnetic reed switch to trigger context-sensitive events. It also has a replaceable battery.



### ACCURATE LOCATION

The tag transmits ultra-wideband (UWB) radio pulses which can be used by the Ubisense location system to find its position. By using UWB, the system's accuracy is maintained even in cluttered, highly-reflective indoor environments.

The Ubisense UWB location system is the only one capable of measuring both Angle-of-Arrival (AoA) and Time-Difference-of-Arrival (TDoA) of the tag's signals, enabling it to generate accurate 3D tracking information even when only two sensors can detect the tag.

### Specifications

#### Dimensions:

54mm x 40mm x 14mm  
(2.1" x 1.6" x 0.55")

#### Weight:

35g (1.2oz) (including lithium cell battery)

#### Temperature:

-40°C to 85°C (-40°F to 185°F)

#### Humidity:

0 to 95%, non-condensing

#### Enclosure:

Polycarbonate (V0-rated)  
Tested to protection level IP66, IP68, IP69K

#### Update rate:

Up to 30Hz (configured during commissioning)

#### Peripherals:

LEDs, Magnetic reed switch, Motion detector

#### Radio frequencies:

Ultra-wideband channel: 6 - 7GHz  
Configuration channel (optional): Narrow-band 2.4GHz

#### Certifications:

**US:** FCC Part 15; FCC ID SEAMOD31

**EU:** CE

**Canada:** RSS-Gen, RSS-210, RSS-220; IC: 8673A-MOD31

#### Power supply:

LTC-7PN lithium cell

#### Mounting options:

Optional mounting options include adhesive pad, screw, and wrist strap

Custom mounting solutions possible on request

#### Ubisense part codes:

D4FLAT33



### FLEXIBLE UPDATE RATES

The tag's update rate may be automatically varied depending on tag activity. An inbuilt motion detector ensures that when the tag is moving, a high update rate is assigned for best tracking; when stationary, the update rate may be reduced to preserve battery lifetime.

### RUGGED AND ADAPTABLE

The mini tag has been designed to withstand harsh industrial environments. Mechanically robust, dust- and water-resistant, the mini tag can be securely mounted using a variety of attachment mechanisms.

### LONG BATTERY LIFE

The low current consumption and sophisticated power management techniques result in long battery lifetimes. Status reports and alerts make maintenance easy and batteries are technician-replaceable. In a typical application, where a tag with a LTC-7PN lithium battery is used to continuously locate an asset once a second, it has an expected lifetime of over two years.

### OPTIONAL WIRELESS CONFIGURATION

In addition to the one-way UWB radio used for tracking, tags may optionally use a conventional, two-way 2.4GHz radio for commissioning purposes. This capability allows tag configuration parameters, such as update rate, to be altered.



To find out more, contact us on:

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