# Vehicle Mount Tag

The Vehicle Mount Tag (VMT) brings location-awareness to vehicles including material-moving forklifts.

Take advantage of the accuracy and fast response time to improve safety by alerting operators of danger or safety violations, such as speeding or potential collision with other vehicles, people or infrastructures.

In addition to collision detection, location-awareness also improves productivity and efficiency through route-planning and location-based task management.



 **Please note:** The vehicle mount tag does not include a CAN bus interface. To request information for the vehicle tag with CAN-bus support, contact us at info@redpointpositioning.com.

## Key Features

**Accurate**
Provides position accuracy within 20cm (8") in normal conditions.

**Quick Response**
Positions are calculated at 4Hz, enabling fast response time within 0.25 second.

**Collision Detection**
Tag measures distances to other tags and triggers collision warning based on predefined rules.

**Universal Alarm Output**
The tag can drive many user-selected alarming devices such as LED light strip and buzzers, as well as custom solutions.

**Vehicle Powered**
Connects directly to the vehicle power and can also operate on an internal battery for multiple days. This power adapter also includes mounting holes.

**Wireless Connectivity**
Changing configuration or update firmware without taking the tag off the vehicle.

**Designed for Reliability**
Designed for harsh operation conditions such as strong shock and constant vibrations.

**Attaches Easily**
Mount the tag to the vehicle with screws or zip ties, no special tool needed.

**Redpoint Positioning Corp.**

100 N Washington St, 6th floor, Boston, MA 02114 | +1 (617) 207-4096
Send inquiries to info@redpointpositioning.com
www.redpointpositioning.com

## Electrical

| Parameter | Value |
|---|---|
| Operating Frequency | 3.5 - 6.8 GHz |
| Power Input Voltage | +7 to 48 VDC |
| Rated Input Wattage | 2.5W (when alarm is inactive) |
| Alarm Output Voltage | +7 to 48 VDC |
| Alarm Output Current | Up to 1A |
| Internal Battery Type | Single-cell lithium-ion rechargeable |
| Battery Life | 187 hours (at 1 Hz update rate) |
| Battery Charge Time | 2 hours |

*Vehicle Mount Tag*

## Mechanical & Environmental

| Parameter | Value |
|---|---|
| Dimension | 110 x 83 x 31 (mm) |
| Weight | 125g |
| Mounting Type | Mounting holes for M3 screw or 4mm wide zip-tie |
| Cable Connector (For Power Input and Alarm Output) | 4-positions screw-on connector with captive plate, accept wire gauge from 16 to 26 AWG |
| Operating Temperature | 0°C ~ 50°C |
| IP Rating | None |

## On-Tag Interfaces

| Parameter | Value |
|---|---|
| Visual Alert | Tri-color LED provides status as well as user-alert functionality. |
| Power Input | 2 pins on the cable connector (VIN and GND) |
| Alarm Output | 2 pins on the cable connector (VOUT and GND) |
| Alarm Output Pattern | Stead high or 1Hz square wave |

*Vehicle Mount Tag mounted on bar*

## Suggested Peripherals

| | |
|---|---|
| LED Light Strip | SUPERNIGHT ™, FBA_LC-128 |
| Buzzer | PUI Audio Inc., AI-2604-TF-12V-R |

*\* Redpoint has verified the peripherals for vehicles with +12VDC power output.*

### Ordering information
The badge and accessories may be ordered directly through Redpoint. Please place a request using part number 9000-0710.