Redpoint
See the moving world

Personnel Badge Lite

What does it do?

This wearable badge combines three functions into a single device:

- **Location Tracking** – The badge reports its location up to four times per second, allowing you to track users in real-time with high accuracy.

- **Communication** – The call button let the user receive and acknowledge warning.

- **PWS Support** – No network infrastructure needed. Visual, audio and haptic alarm between vehicles and vehicles, vehicles and people, vehicles and infrastructure.

How can you use it?

Location Tracking

- You can quickly ensure users are in their designated areas or monitor users who may be in hazardous areas.
- You can capture historical location data for all users to provide precise time and location accountability.

Safety

- Badge sends alarms with flashing LED lights, audible notifications and haptic feedback to alert users when they are entering a dangerous area or being approached by a fast-moving vehicle.

Communication

- Users can press the emergency call button for help.

Key Features

Accurate
Accurate up to 10 cm.

Responsive
200ms latency is essential for safety applications where a fraction of a second makes a difference.

Informative
A flashing LED, audible beep and haptic feedback notify the wearer of safety alerts.

Interactive
A call button lets the user acknowledge alarms and alerts or call for help.

Personnel Badge Lite Front

Redpoint Positioning Corp.

Electrical

	Value
Operating Frequency	3.2 - 6.7 GHz
Battery Type	Single-cell lithium-ion rechargeable
Battery Life Active	12 hours
Battery Life Idle	30 hours
Battery Charge Current	500 mA
Battery Charge Time	3 hours

Personnel Badge Lite Back

Peripherals

Parameter	Value
Call Button	Sends message to the server. Multi-functional, including sending an emergency message.
Visual Alert	RGB LED provides status as well as user-alert functionality
Haptic Alert	Haptic alerts for safety hazards and incoming messages
Audible Alert	On-board buzzer alerts for safety hazards and incoming messages
Motion	6-axis IMU for motion sensing and power management
Bluetooth	Support Bluetooth Low Energy (BLE) communication

Mechanical & Environmental

Parameter	Value
Dimension	62 x 98 x 10 (mm)
Weight	54 g
Operating Temperature	-20°C to 50°C
Charging Temperature	5°C to 40°C
IP Rating	In process

Personnel Badge Lite Side

Accessories

Parameter	Value
Charging	Standard USB-C cable or bank charger
Charging Voltage	5V

Ordering information

The badge and accessories may be ordered directly through Redpoint. Please place a request using part number 9000-0716 for the Personnel Badge Lite.