

Features

- The Tracking and Sensor Tag variants support a wide range of tracking and condition monitoring applications.
- Configurable sensor parameters.
- Seamless interface to RedLore IoT platform: Supply Chain Engine, IoT Engine, Positioning Engine (RTLS), RedBoard™ Dashboards
- Connects automatically to a RedLore Smart Shipment Tracker or any RedLore stationary gateway.
- Supports low-power mesh network protocol (Wirepas).
- Over-the-Air reconfigurable and reprogrammable.
- Supports Indoor Positioning and Proximity-detection.

Applications

Transport & Supply Chains

- Cold Storage Monitoring
- In-Transit Condition Monitoring of Pallets and Boxes
- Cold Chain Monitoring
- Container & IBC Tracking
- Asset Monitoring & Tracking

Infrastructure

- Integrity Monitoring

Warehousing

- Asset Monitoring & Tracking
- Consignment Stocking
- Rack Impact Detection
- Forklift Monitoring & Tracking
- Pick Notification

Manufacturing

- Machine Monitoring
- Predictive Maintenance
- Spare Parts Management
- Environmental Monitoring

Product Variants

Variants	 A temp + accel	 B Accel	 C Track	 D Button	 E Button + Buzzer + LED	 F Accel + IP68	 G Road Stud Anchor
Tracking							
In transit positioning	✓ with RedLore Smart Shipment Tracker						
Indoor positioning	✓ with RedLore Positioning Engine						
Sensors/Actuators							To be used as anchor in RedLore Positioning Network
Temperature	✓			✓			
Humidity				✓			
Shock (fall and lateral impact)	✓	✓	✓	✓		✓	
Vibration	✓	✓	✓	✓		✓	
Tilt	✓	✓	✓	✓		✓	
Button				✓	✓		
Buzzer					✓		
LED					✓	✓	
NFC						optional	
Mechanical							
Dimensions [mm]	Φ49 x 66 x 17.5	Φ39 x 16	37 x 24 x 5	Φ24 x 4.5	40 x 40 x 13.5	Φ64 x 11 *	100 x 100 x 25
Ingress Protection	IP67	IP67	IP40	IP40	IP40	IP68	IP68
Power							
Battery capacity [mAh]	1000	1000	225	225	620	225	2700
Replaceable	✓	✓	✓	✓	✓	-	-

* Type F also available without the wall-mount brackets, as a round device with self-adhesive back.

Operating parameters and tolerances

General	(all variants)	
Operating temperature	-20°C...+55°C	
Data update rate	10 seconds to 10 days	
Configuration	Remotely	
Temperature	(variants A and D)	
Operating temperature	-20°C...+55°C	
Accuracy	<u>variant A</u>	<u>variant D</u>
	±0.5°C (+10...+55°)	±0.4°C (0...+55°C)
	±2°C (-20...+10°C)	±0.7°C (-20...0°C)
Humidity	(variant D)	
Operating range	0...100%RH	
Accuracy tolerance	±2%RH typical, ±4.5%RH max (@25°C, between 10%...90%RH)	
Vibration	(all variants)	
Frequency	Low, medium and high frequency vibrations	
Shock	(all variants)	
Type	Shock from fall, shock from lateral impact	
Tilt	(all variants)	
Orientation	Along X, Y, Z axis	
Mounting	variant G 'Road Stud Anchor'	
	Screwed to floor with 2 screws (included). Easy replacement of device using same screw holes when battery is depleted.	

Certifications

FCC

(all variants)

Contains FCC ID 2AA9B10. In conformance with Federal Communications Commission (FCC) CFR47 Telecommunications, Part 15 Subpart C “Intentional Radiators”

IC (ISED)

Contains IC (ISED) 12208A-10. In conformance with Industry Canada (IC) Radio Standards Specification (RSS) RSS-210 and RSSGen

CE

In conformance with Radio Equipment Directive 2014/53/EU:

- EN 60950-1: A2: 2013 3.1 (a): Health and Safety of the User
- ETSI EN 300 328 V 2.1.1 3.2: Effective use of spectrum allocated
- ETSI EN 301 489-1 V2.1.1 & 3.1 (b): Electromagnetic Compatibility
- ETSI EN 301 489-17 V3.1.1

ROHS compliant

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Contact

RedLore North-America
7 Bayview Station Road
Ottawa, ON K1Y 2C5 – Canada

RedLore Europe
West Winds, Triq L-Iskultura
Rabat RBT4040 – Malta

info@redlore.com
www.redlore.com