BlackBerry Radar®

ASSET MONITORING ENGINEERED FOR INTELLIGENCE

BlackBerry Radar H2

Low-Maintenance, Scalable, Asset Monitoring You Can Trust

BlackBerry Radar monitoring for non-powered assets was developed using 20+ years of experience delivering secure, mission-critical products. BlackBerry Radar H2 is the next generation monitoring solution purpose-built for the transportation industry's tough requirements.

- Reliable and actionable information on asset location and status from one main device
- Ruggedized and low maintenance devices with flexible, discrete, and easy installation for minimal disruption to your business
- The ability to communicate with wireless sensors for a customizable and scalable solution

QUICK & EASY INSTALLATION

RUGGEDIZED & SELF-CONTAINED

LONG LASTING & LOW MAINTENANCE

RELIABLE SECURE DATA

PREMIUM LONG LASTING-BATTERY

SCALABILITY FOR WIRELESS SENSORS

BlackBerry Radar H2

Deep Visibility into:

Containers

Chassis

Trailers

Equipment

Know Where Your Asset Is, How It Is Being Utilized, and Use It More

BlackBerry Radar helps improve operations and financial decisions with easy-to-use reports, dashboards and tools.

DEEP VISIBILITY INTO OPERATIONS

- Know where your assets are and what they are doing
- Save drivers and dispatchers time
- Automate dock and yard operations
- Enhance customer service offerings

IMPROVE ASSET UTILIZATION

- Grow your business without buying or leasing new assets
- Minimize asset downtime
- Measure and understand detention, dwell and turn times
- Improve maintenance scheduling

PROTECT YOUR BUSINESS

- Identify unauthorized use
- Reduce the impact of theft on your business
- Use a solution built with leading cybersecurity technology

Readings and Capabilities

- GPS Asset Location
- Accurate Mileage
- Route Tracking
- Stop/Start Trip Alerts
- Door Open/Close Alerts
- Container On/Off Alerts
- Tamper Alerts
- Sensor Gateway

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Technical Specifications

Dimensions

292mm x 93mm x 42mm

GNSS

GPS/GLONASS:
Location, mileage reporting, route tracking

Sensors

3-Axis Accelerometer and Gyroscope:
Start stop, door open/close, container on/off, tamper alerts

Battery

Built-In Long-Lasting Lithium Thionyl Chloride Battery:
273 Wh capacity (38 Ah @ 7.2V)

- Up to 6 years of battery life*

135 Wh capacity (19 Ah @ 7.2V)

- Up to 4 years of battery life*

* Battery life estimates are based on testing during moderate asset usage. Data is collected from the sensor when an event is triggered. GPS is collected every 5-minutes when an asset is moving. The device will send data to the server when an event is triggered and every 4h when an asset is moving. If the device is not in cellular range, the device will store the information until the next event or 4h interval, whichever comes first.

Communication

LTE/UMTS 3G/GSM 2G modem:
North America, Europe, APAC RF bands supported

- LTE Cat 1: 1, 2, 4, 5, 12
- UMTS: Bands 1, 2, 5, 6, 8 HSDPA cat 8, HSUPA cat 6
- GSM/EDGE Bands 2, 3, 5, 8 multislot class 12

Sensor Gateway:
(Enabled with 273Wh Battery)

- SubGHz short range connectivity 915MHz (in NA) and 868MHz (in EC) with a BlackBerry proprietary protocol

Processor and Memory

- 32-bit CPU with low current drain
- LPDDR + Flash

Environmental

- Operates between -40°C to 85°C (-40°F to 185°F)
- Operational Altitude -500 to 15,000 feet

Software, Updates and Security

BlackBerry QNX RTOS
BlackBerry QNX Wireless Framework 1.0
BlackBerry Secure IoT Platform Client:

- Over-the-Air (OTA) Software Updates
- Secure Boot and Transmission

Certifications

MIL STD-810G:
Drop, shock, vibration, salt fog, high altitude, solar, UV

SAE J1455:
Water spray

IP67, IEC 60529:
Dust/water ingress

EN 60950-1:2006:
Impact

PTCRB, CE, FCC, IC
ISO 9001
RoHs
REACH
WEEE
CA prop 65

BlackBerry Radar H2 Sensor Gateway

BlackBerry Radar H2 includes the BlackBerry Radar Sensor Gateway. The Sensor Gateway communicates to external wireless sensors, such as the BlackBerry Radar Cargo Sensor, and enables future integration to other sensors for enhanced visibility to asset status. The Sensor Gateway uses an advanced communication protocol that requires minimal energy consumption and optimizes communication between the sensor and the main device in transportation use cases.

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