BlackBerry Radar
Asset Monitoring Engineered for Intelligence

DICAN
FLEET SAFETY SOLUTIONS
DICANINC.COM
1 866 884 7569

BlackBerry Radar R2

Container On/Off Detection – Wireless Sensor

The BlackBerry Radar® R2 is the next evolution of Radar's wireless sensors, adding capabilities to the already robust BlackBerry Radar H2 solution. Designed for operations that need enhanced chassis and container visibility and control of their assets, the BlackBerry Radar R2 includes a unique container sensing capability. When installed on a chassis, it can detect if the chassis has a container mounted on it or not and takes readings every 15 minutes, regardless of motion status.

Cargo Visibility with Simple Installation

The BlackBerry Radar R2 can be installed during the initial implementation of BlackBerry Radar H2, or added later when the need is identified. The information collected supplements the BlackBerry Radar H2 sensor readings: GPS asset location, accurate mileage, trip reporting and start/stop alerts. The sensor communicates to BlackBerry Radar H2 using a wireless sub-GHz frequency and secure custom protocol designed for reliability in transportation use cases.

Designed with ruggedized construction, long battery life and the same provision of reliable data as all BlackBerry Radar products, the BlackBerry Radar R2 seamlessly communicates with BlackBerry Radar H2, with information and analytics easily viewable in the BlackBerry Radar portal.

BlackBerry Radar R2

Enhanced Cargo Visibility for:

Chassis
Containers

BlackBerry Radar R2

- EASY AND STEALTH INSTALLATION
- ENHANCED CHASSIS AND CONTAINER VISIBILITY
- POWERFUL ANALYTICS
- RUGGEDIZED AND LOW-MAINTENANCE
- PREMIUM LONG LASTING-BATTERY
- IMPROVE ASSET UTILIZATION

Readings

- Container On/Off
- Measure and understand how your chassis are being utilized with additional data
- Optimize fleet operations by knowing when containers are on, off and when the status changes even when not in motion

BlackBerry

BlackBerry Radar R2

Container On/Off Detection

Technical Specifications

Dimensions
167 mm x 94 mm x 42 mm
(6.6” x 3.7” x 1.6”)

Weight
325g

Sensors
Sensor hub including 3-Axis Accelerometer and Gyroscope:
80 GHZ FMCW RADAR

Battery
Built-In Long-Lasting Lithium Thionyl Chloride Battery:

- 68 Wh capacity (19 Ah @ 3.6V)
- Up to 5 years of battery life*

* Battery life estimates are based on testing during moderate asset usage. Data is collected and sent to BlackBerry Radar H2 when an event is triggered. If the device is unable to send the data when an event, the device will store the information until the next event.

Communication
SubGHz short range connectivity 915MHz, 868MHz and 2.4 GHz with a BlackBerry proprietary protocol

Software, Updates and Security
BlackBerry Secure IoT Platform Client:

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

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

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

Content: 03/19 | Rev. JUNE2020