

Physical

Dimensions

314mm x 97mm x 43.5mm (12.3" x 3.8" x 1.7")

Weight

1.069kg (2.36lb)



GNSS

GPS/GLONASS

Location
Mileage Reporting
Route Tracking

Sensors

3-Axis Accelerometer and Gyroscope

- Start Stop Alerts
- Tamper Alerts
- Impact Detection
- › Configurable Duration and Amplitude with Shock Curve

Battery

Built-In Long-Lasting Lithium Thionyl Chloride Battery

273 Wh capacity (38 Ah @ 7.2V)
5+ years battery life*

Processor & Memory

32-bit CPU with low current drain
LPDDR + Flash
Enough memory for full data storage until transmission.

*Battery life estimates are based on real world modeling for typical railcar usage. Actual battery life may differ.

Communication

LTE CAT-M1 modem

5G/5G IOT Network Enabled
North America, Europe, APAC
RF bands supported:
LTE FDD: 1, 2, 3, 4, 5, 8, 12, 13, 18, 19, 20, 25, 26, 27, 28, 66, 85

Sensor Gateway:

SubGHz short range connectivity to compatible wireless sensors
915MHz, 869.85MHz and 2.4 GHz with a proprietary protocol
Reliable, long-range communication delivering superior performance in difficult environments.

Environmental

Operating Temperature Range:
-40°C to 85°C (-40°F to 185°F)
IECEX/ATEX/cETLus Ambient Temperature Range: -40°C to 70°C (-40°F to 158°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

Certifications

Environment:

MIL STD-810G
SAE J1455
IP67, IP69K, IEC 60529
EN 60950-1:2006
RoHs, REACH, WEEE

Radio & EMC Certification:

PTCRB, GCF, CE, FCC, IC

Product Safety:

UKCA, NOM, CA prop 65

ATEX & IECx:

IEC 60079-0, IEC 60079-11
Ex ia IIC T4 Ga
Ex ia IIIC T135°C Da
Ex II 1GD

HazLoc

ANSI/UL 60079-0, 60079-11, UL 913, ANSI/ISA-12.12.01-2000
Class I, Zone 0, AEx ia IIC T4 Ga
Class II, Zone 20, AEx ia IIIC T135°C Da
Class I, Division 1, Groups A, B, C, D; T4 Class I, Division 2, Groups A, B, C, D; T4 Class II, Division 1, Groups E, F, G; T4 CAN/CSA C22.2 No. 60079-0, CAN/CSA C22.2 No. 60079-11 Ex ia IIC T4 Ga, Ex ia IIIC T135°C Da

Quality

ISO 9001

The PIVOT Gateway communicates with compatible external wireless sensors and enables expansion of features and services.