Iridium Edge® Pro

Part #: EDGEPRO9690

Data Sheet

The Iridium Edge® Pro is a standalone device with Short Burst Data® (SBD) that offers real-time GPS tracking capabilities, and a flexible programming platform that allows developers to create and run their own custom-made applications. Example uses include fisheries, vessel and fleet management, and remote monitoring.

BENEFITS

Highly Mobile - The Iridium® satellite network provides communications and connectivity for mobile applications like oil and gas, transportation, agriculture and surface mining anywhere on the planet allowing tracking and monitoring of vehicles and assets operating in remote areas.

Reliable Coverage - Devices using the Iridium satellite network are enabled by a constellation of 66 Low-Earth Orbit (LEO) mobile satellites that provide service anywhere on the planet.

Low Latency - The Iridium satellites in Low-Earth Orbit (780 km), enable signals to travel in 1/40 the time compared to geostationary satellites (36,000 km), resulting in low-latency, always-on connections ideal for Internet of Things (IoT) deployments.

FEATURES

- Quick Partner (VAR) Development Using Java
- Common Services Including Geofencing, Event Logging & Position Reporting
- Easily Paired with Cellular Solutions Using Programmable Interfaces
- Standalone Finished Product for GPS Tracking
- Programming Over the Air
- Low-cost Iridium Edge Pro Development Kit (Part #: EDGEPRODEV2001)
- Eclipse-based Tools and Iridium Edge Pro Development Tools

iridium®

MECHANICAL SPECIFICATIONS

Dimensions	127 x 90 x 41 mm (L x W x H)
Weight	200 g
Mating Connector	18 Pin Male (Right Angle & Straight Through Options)
Mounting Holes	4 Holes that Support M4 Screw Type

POWER PARAMETERS

Input Voltage	7 to 32 V DC
Load Dump	SAE J1455 Section 4.13.2.2.1
Maximum Current	2A at 7 V
Power / Voltage Input Sense	

INTERFACES

RS-232, RS-485 (User Programmable with Modbus Library Provided)
CANbus (User Programmable with J1939 & NMEA200 Libraries Provided)
BLE (User Programmable)
USB Provided for Diagnostics & Field Updates
(2) x Analog Input or Digital Input
(2) x Digital Input or Output

PROGRAMMING

Programming is available with Java Interface. Eclipse based IDE and Pro Development Tools allow VARs to create customized Java solutions. Each application can be tested in a virtual environment using provided simulation tools before being deployed to the Iridium Edge Pro device.

INTERNAL SENSORS

Accelerometer
Temperature

GNSS CAPABILITIES

GPS / GLONASS / Galileo / Beidou
Position Accuracy: 2.5 CEP

ENVIRONMENTAL SPECIFICATIONS

Storage Temperature	-40° C to 85° C
Operating Temperature	-40° C to 70° C
Operational Vibration	SAE J1455 Section 4.10
Shock	1 m Drop Test as per SAE J1455
Salt Spray	SAE J1455 Section 4.3.3.1
Low Pressure Storage	30,000 Feet
Humidity	SAE J1455 Section 4.2.3
Ingress Protection	IP67
Splash Testing	SAE J1455 Section 4.4.3.2
Maritime Testing	DNVGL-CG-0339, IACS E10, IEC/EN 60945
Steam & Pressure Washing	SAE J1455 Section 4.5.3

REGULATORY STANDARDS & COMPLIANCE

US (FCC), EU (CE MARK), CANADA(IC), ROHS, AUSTRALIA

iridium®