VECTOR IRIDIUM* DATA LINK (VIDL)

VIDL is a satellite radio capable of simultaneous voice and application data exchange utilizing the Iridium Push-to-Talk network service. VIDL can send and receive voice communications, Position Location Information (PLI), group text messaging, operational graphics, map overlays, and routes from anywhere in the world. The VIDL deploys quickly without complex system architecture and easily integrates with other existing C2 software capable of using Cursor-on-Target (CoT) message format. The VIDL operates like most common tactical radios utilizing a hand mic and voice speaker so operators can monitor traffic from a distance. Utilizing the Iridium Push-To-Talk (PTT) service, VIDL provides global coverage with short transmission paths, strong signal strength, low latency, and shorter registration time than with other satellite systems. Unique to Iridium, this architecture provides inherent advantages in performance and reliability over other mobile satellite service providers.

VIDL CAPABILITIES

▶ True Global Communications with Iridium* Push-To-Talk Satellite Network

▶ Deploys Quickly without Complex System Architecture

▶ Coverage Independent of Ground Infrastructure

▶ Integrated GPS Positioning

▶ Data Link for Voice, Text and Reporting

▶ Built-in AES-256 Encryption

▶ Rugged Lightweight Design

▶ Easily Integrates with Existing Command-Control Software

▶ Unlimited Number of Users Worldwide

▶ Fully Exportable to Partner Nations

PRINCIPLE COMPONENTS

▶ Vector Iridium Data Link (VIDL)

▶ Antenna

▶ Outdoor Speaker/Handset

▶ Rugged Computing Platform

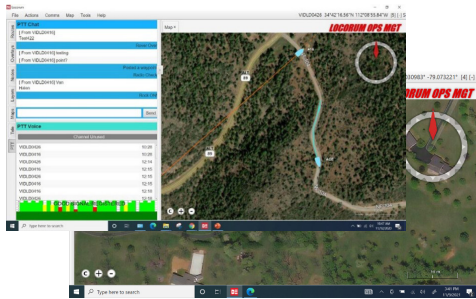▶ Locorum** Operations Management Application

OPTIONAL COMPONENTS

▶ ATAK/WinTAK Application

▶ Alternate Antennas and Mounts

▶ Laser Range Finder

▶ Network Radio Gateway

▶ Alternate Deployable Case Configurations

IridiumPTT-VIDL-PF Rev 04

VIDL SPECIFICATIONS

- Dimensions: 170x120x56mm
- Weight: 0.64kg
- Power Requirements: 9-32 VDC
- Power Consumption: < 0.4A @12 VDC
- Transmit Power: 7W max
- Frequency Range: 1616 to 1626 GHz
- Satellite Constellation: Iridium
- Environmental Protection: IP68 (immersion)
- Operating Temperature: -30 to +70 deg C

- Interfaces:
- Audio: U-329, 6-pin circular connector
- Antenna: 2x SMA (GPS/satellite)
- Data: Ethernet Serial Port (sensor data input)
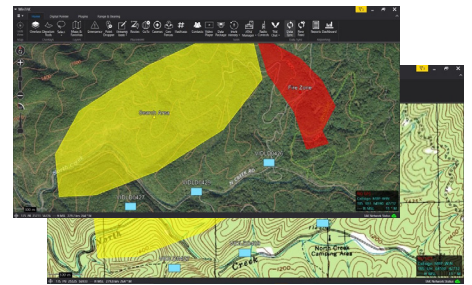- Power: MS-3106-12S-3P

OPERATIONS MANAGEMENT APPLICATIONS

Locorum** Operations Management
- Windows Based
- Mapping, Geo Location, Navigation
- VIDL RSSI Status
- Voice & Text Chat

Android Tactical Awareness Kit (ATAK)
- Android Based (ATAK, CivTAK)
- Mapping, Geo Location, Navigation
- VIDL RSSI Status
- Voice & Text Chat

Windows Tactical Awareness Kit (WinTAK)
- Windows Based (ATAK Server Req.)
- Mapping, Geo Location, Navigation
- Voice & Text Chat

IRIDIUM SUBSCRIPTIONS

VIDL Iridium PTT access requires a subscription or airtime plan that can vary in cost based on amount of coverage required. Plans include unlimited Push-To-Talk voice, text and position machine to machine data.

Contact us and we can arrange a plan that makes the most sense for you. Parraid is prepared to help design a coverage plan based on your requirement or use case.

*http://www.iridium.com
**http://www.devil-tech.com

Please contact the Parraid Engineering Solutions Group for customized solutions such as vehicle or aircraft mountable cases, longer cable lengths, and alternative operating systems.

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DESIGN | BUILD | SUPPORT

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Exp. 2023-09-03 / Appraisal #8526