QuickNav

All-in-one device for UAV BVLOS connectivity/beaconing

QuickNav is a low-weight, all-in-one satellite command and control (C2) access device. When attached atop an Uncrewed Aircraft Vessel (UAV), this advanced solution delivers a low-latency, full duplex data connection to any address, with airtime through a commercial gateway or the United States Space Force (USSF) Enhanced Mobile Satellite Service (EMSS).

QuickLynk, the router-based, unrestricted digital internetworking connectivity solution, connects to a predefined IP address, enabling a near real-time end-to-end IP connection between the host application and QuickNav.

With QuickNav and QuickLynk, achieve greater operational outcomes through protocol independence and enhanced call connection, quality, reliability, and uptime.

General
- Use multiple QuickNavs for separate or common IP addresses
- Pole-to-pole, Artic coverage and unlimited range
- Leverages low-earth orbit satellites (LEO) for 1-2s latency with good view of the sky
- Fast 8-13s initial satellite connections
- Secure with AES256 encryption and VPN or NIPRNet networking
- Low size, weight, and power (SWaP) device
- Easy mounting with Velcro®

Specifications
- Dimensions (L x W x H): 107 mm x 89 mm x 65 mm (4.2" x 3.5" x 2.5")
- Weight: 8.3oz with internal batteries
- Temperature: -30°C to +70°C (-22°F to +158°F)
- Power: 2x disposable CR123A batteries or external 4-32 VDC power
- Integrated satellite and GPS antennas
- DB25 connector for data and power
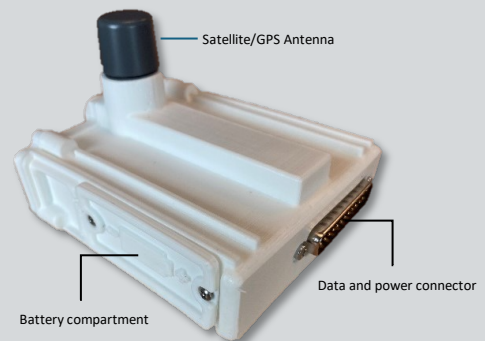- IP67 rating (weather resistant)

About NAL Research

NAL Research leads the industry in delivering innovative, global connectivity solutions that are trusted by government and enterprise customers worldwide. A pioneer in satellite communications, IoT, and GPS-independent assured positioning, navigation and timing products and services. NAL enables customers to reliably communicate, track, and manage assets from any location in the world. NAL Research is an Iridium service partner and value-added manufacturer.

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Applications
- Commercial UAVs
- Government / Military UAVs
- Surveillance and Beaconing
- Industrial Inspections

Front of product

Satellite/GPS Antenna

Data and power connector

Battery compartment

Back of product

LED Indicators: Power, Signal Strength, Data Mode On / Off

Velcro® attachment area

On/off switch