



NAVHUB™-50 NAVIGATION SYSTEM

LIGHT, RUGGED AND MISSION-SPECIFIC

Assured PNT for the dismounted soldier

When dismounted Positioning, Navigation and Timing (PNT) information is jammed or spoofed it directly impacts mission effectiveness. The Collins NavHub-50 is a trusted source of high integrity PNT information capable of operating in GPS contested and GPS-denied environments while pacing the threats of today's modern battlefield.

Our NavHub-50 supports communications, command and control, and targeting for the dismounted soldier while seamlessly integrating with the Nett Warrior system. It fuses information from a Military GPS Receiver and non-GNSS based sensors to ensure the availability of PNT in a high threat environment. Our navigation fusion is what makes the NavHub-50 a next generation technology offering improved performance over currently fielded dismounted GPS solutions while

being optimized for size, weight and power-cost (SWaP-C).

While other products provide a path to M-Code, the NavHub-50 comes with an M-Code receiver that provides enhanced GPS integrity over SAASM receivers. The NavHub-50 generates and distributes Assured-PNT and will maintain accurate positioning and timing information in GPS-contested and GPS-denied environments.

Collins has embraced Open System Architectures ensuring the NavHub-50 is a modular and scalable technology capable of incorporating alternate sensors through Open System Interconnection Standards (OSI) and hosting 3rd party portable applications. Our innovative approach and use of OSA/OSI ensures a path for future technical upgrades, lowering the total life-cycle costs.

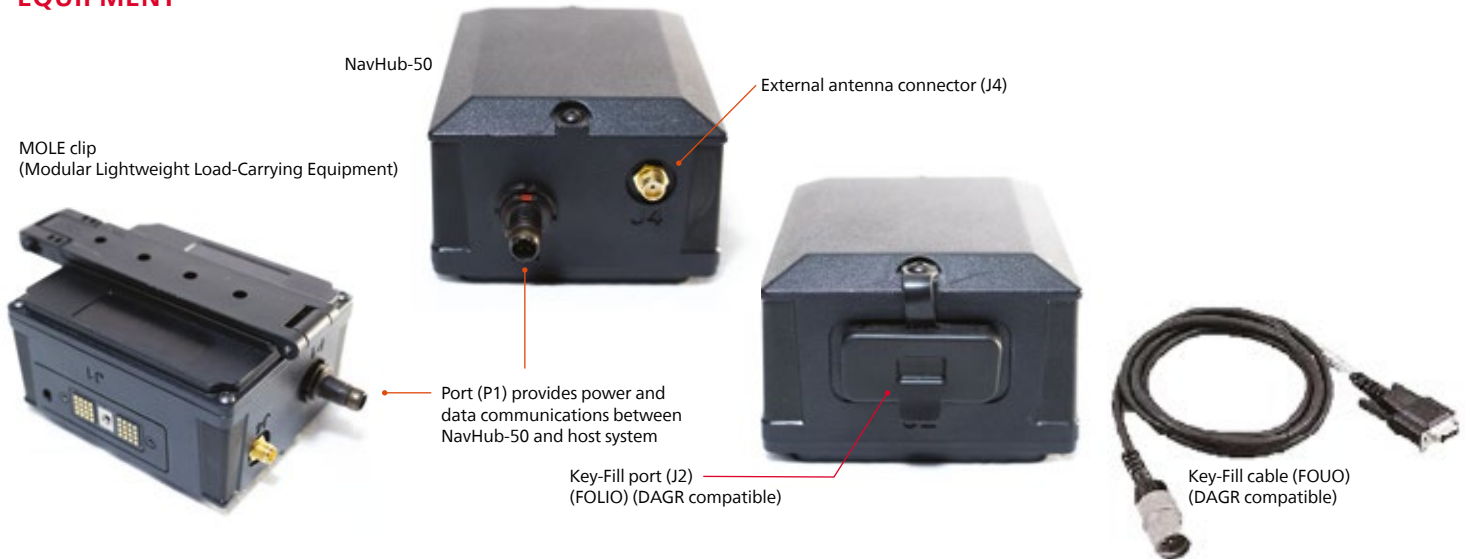


KEY FEATURES & BENEFITS

- Provides Assured-PNT in GPS-contested and GPS-denied environments
- Provides a dual frequency (L1/L2) M-Code and Y-Code Military GPS Receiver improving GPS integrity over SAASM receivers
- Extends performance in a jamming environment
- Proven interoperability with the Nett Warrior system
- Optional Remote Secure Antenna (RSA) accessory increases signal reception and provides flexibility for mounting

PHYSICAL CHARACTERISTICS*(without external antenna)*

Size	2" D x 3" W x 4.5" H
Weight	~ 13 oz.
Operating temperature	-40 to +50 C
Optimized power	< 2 watts

EQUIPMENT**SPECIFICATIONS****INTERFACES**

- Nett Warrior connector for power/comm interface
- Ethernet maintenance port for field loading software
- DS-101 key loading
- Direct RS-232 and 1 PPS connection to GPS M-Code receiver
- Internal or External RF antenna input
- Accessory RS232 output with IS-GPS-153 messages and 1 PPS output
- 10 Mhz input CSAC compatible

SYSTEM CHARACTERISTICS

- GPS/INS navigator
- Ground-aided navigation for GPS-denied conditions
- Precision time frequency estimation for computing sub-microsecond time accuracy in GPS-denied environments
- Configurable Disciplined 10 MHz or 1 PPS output clock for precision time applications
- Designed to seamlessly integrate with Nett Warrior/ATAK and other Situational Awareness Systems
- Modular Open System Architecture (MOSA) supports system integration with alternate PNT sensors for extended GPS-denied capability
- Designed to MIL-STD-810G and MIL-STD-461G

Specifications subject to change without notice.

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