

HIVELINK™ HIGH-ASSURANCE DATA LINK RADIO

Next-Generation Multi-Channel Connectivity for Contested and Denied Environments

The L3Harris HiveLink is a small-form-factor, high-assurance, dual-channel software-defined radio that provides resilient line-of-sight (LOS) and beyond-line-of-sight (BLOS) connectivity for operations in contested and denied environments. HiveLink combines advanced mesh networking, CDL interoperability and exportable waveform flexibility to support missions across SWAP constrained platforms.

PRODUCT DESCRIPTION

HiveLink combines advanced mesh networking, STANAG 7085 interoperability and exportable waveform flexibility to support missions across UAVs, munitions, targeting pods and manned aircraft. It enables scalable, self-forming and self-healing networks while maintaining compatibility with existing U.S., NATO and Coalition systems.

HiveLink integrates a 1-watt internal Radio Frequency Equipment RFE¹ for LOS operations, with support for external RFEs for extended range BLOS configurations. The system supports multiple waveforms, High Assurance crypto modules and industry standard networking interfaces, providing a secure and adaptable solution for ISR, targeting and multi-platform coordination.



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Secure and Resilient Communications for Operation in Contested Environments

KEY BENEFITS

- > NSA High-Assurance certification (in progress)
 - Cryptographic Core Modernization
 - U.S./FVEY support, up to Top Secret
 - Coalition support, up to NATO Secret
- > Self-forming and self-healing mesh networking, up to 32 nodes
- > Built-in 1W RFE
- > U.S. government and coalition variants

APPLICATIONS

- > Fixed and rotary wing aircraft
- > UAVs
- > Collaborative combat aircraft
- > Targeting pods
- > Munitions
- > Effectors
- > UGVs
- > USVs

FUTURE ENHANCEMENTS

- > Additional resilient waveforms
- > Dual simultaneous waveform operations
- > External RFE Support
- > Over-the-network keying
- > Electronic Warfare (EW) techniques
- > Assured Position navigation Timing (APNT) support

SPECIFICATIONS

PERFORMANCE CHARACTERISTICS

Supported Waveforms

- > Point-to-point
 - BE-CDL Rev F^{1,2}
 - STANAG 7085^{1,2}
- > Resilient mesh waveforms
 - Waveform X¹
 - Aurora 501^{1,2}
- > Software upgradeable BLOS and LOS capability

Data Rates:

- > STANAG 7085: <45 Mbps
- > Resilient waveforms: <6 Mbps
- > Mesh: Up to 32 nodes

Encryption

- > High Assurance Tactical ISR (TaISR) crypto module
- > SERD 2.0 certification
- > DS-101 High Assurance Key Loading
- > AES-256

SWaP

- > Size: 5" (h) x 5" (l) x 4" (w)
- > Weight: <5 lbs
- > RF power out: 1 Watt
- > Power consumption: 125 Watts (typical), 160 Watts (max)
- > Input voltage: 22–29 VDC
- > MIL-STD-704F compliant

EMI

- > MIL-STD-461G

Environmental

- > Altitude: 50,000 ft
- > Thermal
 - Operational: -40 °C to 75 °C
 - Non-operational: -40 °C to 85 °C
- > Vibration: Fixed and rotary wing Airborne and Ground profiles
- > MIL-STD-810G airborne and ground

INTERFACES

User Interface

- > Mission Control Interface (MCI) for command and status, such as setting frequency
- > RS-485
- > TCP and UDP multicast support
- > Industry standard routing protocols

RF

- > LOS with built-in 1W RFE: S- and C-bands

FUTURE ENHANCEMENT

- > Additional resilient waveforms
- > Dual simultaneous waveform execution
- > Expanded external RFE support
- > Key management infrastructure aware encryption keying support
- > EW techniques
- > APNT support

1. HiveLink-e = USG

2. HiveLink-c = NATO/ Coalition

HiveLink

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