KRAKEN 18

Multiple-Platform Network Gateway Pod

Kraken provides a TENTaCLE gateway for combined hybrid satcom + mesh networking + LPI/LPD comms and Link-16 gateway.

KRAKEN™ 18 extends network connectivity for airborne, surface, and ground-based warfighters. The small size, weight, and power (SWaP) pod integrates with multiple platforms to deliver a resilient TENTaCLE network connection to disadvantaged users. Extends tracks, text, voice, video, and other data over the horizon to distributed users in air and on the ground.

KRAKEN 18 is a small SWaP pod integrating the premier FTEN architecture extending all-domain warfighter communications and networking capability at the tactical edge. The easy-to-integrate podded system augments the communications and sensors for airborne platforms, delivering a resilient, multi-path Line of Sight (LOS) and Beyond Line of Sight (BLOS) network gateway.

KRAKEN 18's payload brings bi-directional classified network connectivity with resilient satcom links, a TDL gateway, and low probability of intercept/detection (LPI/LPD) capabilities. Through the Fuse CORE® multi-function network manager, a variety of systems can be interconnected, allowing each node to maintain a common baseline of networking capability with swappable radios, sensors, and compute based on mission need.

KRAKEN 18 delivers direct access to SIPR, a Secure Internet Protocol Routing, supporting mission planning upon takeoff. The podded system supports the exfiltration of intelligence, surveillance, and reconnaissance (ISR) from edge sensors, contributing to multiple-enterprise common operating picture (COP) and common tactical protocol (CTP) connections simultaneously. Additionally, laser rangefinder (LRF) data flows forward to the tactical edge, improving situational awareness.

KRAKEN 18 rapidly integrates secure network capabilities into a range of platforms, providing powerful, dynamic connectivity for warfighters at the tactical edge.

KRAKEN 18 provides portable data path expansion that enables multiple mission effects across joint platforms to experiment, train, and learn the complexity of establishing a complex comms network.

SWaP
> Small SWaP pod, less than six feet in length and under 200 pounds

Multi-platform
> Suitable for use with multiple airborne, surface, and ground platforms

Resilient
> Multi-path combined BLOS and LOS capability

Secure
> DISA and Navy Ciphertext compatible
> Direct, high-speed connection to SIPR upon takeoff
> Advanced cybersecurity is implemented with embedded firewall/IPS/IDS in the virtualized CORE multifunction network controller

Flexible
> Modular, interoperable FTEN software-based network architecture
> Variety of components can be interconnected through Fuse CORE network controller
> Payload may be modified to support customer needs

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KRAKEN 18 Specifications

Physical

Size (L x W x H)	74.45 × 18 × 18 in (pod only) 74.45 × 18 × 31.75 in (antenna and lugs included)
Volume	8.9 ft^3
Weight	244.5 lbs

Electrical

- Nominal Input Voltage: 28-V DC
- Peak Load: 30 A

Mounting Information

- Compatible with MAU-3A bomb rack with 14 in. lug spacing
- Compatible with BRU two-lug 14 in. systems (IAW MIL-STD-8591)

Payload Options

Customization by request. Most pod components can be exchanged for other component types that better suit your needs, subject to testing and validation.

- SIPR Tablet interface with COP, Chat, Browser, T3 and other user applications
- Fuse CORE network controller + UNEM CDS + Dragonfly ALTPNT

Tactical Data Links

Link-16	Firenet, MIDS-J
TTNT	MIDS-J, T-1000

Resilient & Persistent SATCOM

Starlink/Starshield	High Performance Terminal, v3, v4, v4 Mini Tile
Iridium Certus	--
MUOS	PRC-177G

Directional Links

Multi-Beam CDL	MMT
Free Space Optics	Developmental

Mesh Networking Options

Silvus	--
Trellisware	--
MPU-5	--
Dark Ink	Developmental

Sensors

DRT and others

High Density Server Options

Platforms

KRAKEN 18 is suitable for a range of platforms, such as:

- Group 4/5 UAV
- Rotary Aircraft
- Fixed-Wing Aircraft

Certification and Compliance

- Certification: NSA Type I encryption
- Compliant: STANAG 7085
- Compatible: IAW MIL-STD-8591 mounting standards
- Capable: MIL-STD-1760 interconnection interface
- Manufactured in an ISO-9001 certified facility

Embedded Capabilities

KRAKEN 18 embeds a suite of proven Fuse TEN products, delivering unmatched advanced networking capabilities.

CORE® Multi-Function Network Controller

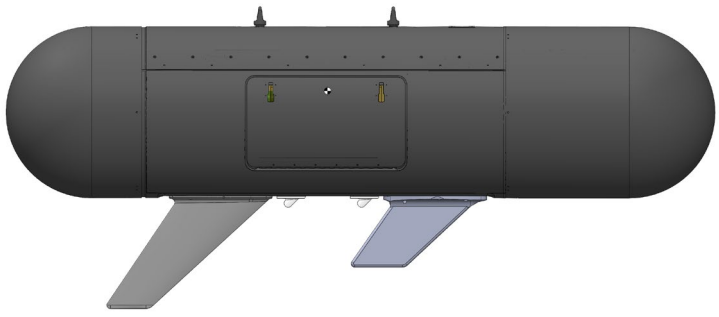
A flexible, rugged, and secure advanced network management solution that reliably connects airborne, surface, ground, and undersea vehicles with each other, with command centers, and with intel nodes across secure and unclassified networks. A variety of components can be interconnected through CORE to enable a combined TDL and IP network solution that is DISA and Navy Cipher-Text compatible.

T3

T3 provides an intuitive view of, and access to, all-domain communication pathways, from seabed to space. The remote network monitoring and management tool features an intuitive map-based interface for troubleshooting and repair from anywhere in the world.

MANIAC™

MANIAC is a radio control software suite that integrates with T3 for improved network availability and connectivity ability as well as artificial intelligence and machine learning capabilities. The embedded MANIAC out-of-band control plane enables LPT/LPD discovery for directional links.



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