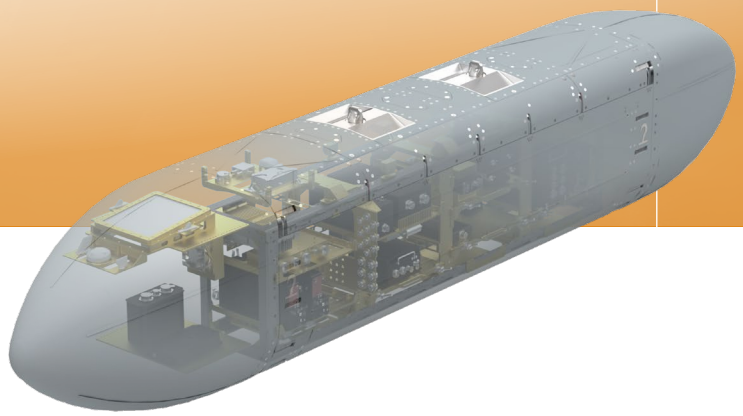
KRAKEN 26

Communications, Network and Gateway Pod for Widebody Aircraft

Four extensible, modular system bays with standard 19” rack mounts provide agility for a variety of communications, networks, and sensors. The KRAKEN pod brings the TENTaCLE architecture to wide body platforms.



KRAKEN™ 26 extends network connectivity and TDL gateway to distributed users by enabling legacy aircraft with an easily deployable solution on standard wing pylons. KRAKEN includes hybrid satcom, multiple mesh network links, LPI/LPD links, and TDL gateway. Mission effects in contested environments are enabled through classified network connectivity provided by KRAKEN.

KRAKEN 26 is a network gateway integrating the TENTaCLE architecture to extend all-domain warfighter communications and networking capability at the tactical edge. The four-bay podded solution delivers a resilient “tactical hotspot” that enables a combined TDL and IP heterogenous mesh.

KRAKEN 26 delivers direct secure access to SIPRNet and other security enclaves, supporting mission planning and live tracking/dynamic tasking from takeoff through landing. The podded system supports 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.

The KRAKEN 26 design allows for a modular approach to payload delivery. Bay four is dedicated to the hoteling system, allowing for Bays 1-3 to integrate a large variety of radios, sensors, and high-density compute systems. Components can be interconnected through the Fuse CORE® multi-function network, allowing each network node to maintain a common baseline of networking capability with swappable radio links. Most components may be exchanged for other component types, to better suit mission needs.

KRAKEN 26 flexibly integrates secure network capabilities into a range of large-body platforms, providing powerful, dynamic connectivity for warfighters at the tactical edge.

Fuse’s KRAKEN 26 integrates the TENTaCLE architecture into an AgilePod® 26 airframe with a combination of SATCOM and LOS links.. The underwing pod approach brings a rapid-prototyping capability that moves faster than in-aircraft integration can deliver.

Multi-platform Multi-Mission

- Suitable for use with multiple large-body airborne, surface, and ground platforms
- Dynamic Mission Execution
  - Collaborative Anti-Submarine Warfare
  - Combat Search & Rescue
  - Long Range Fires (across coalition platforms)
  - Contested Logistics
  - ISR in Contested Environments

Resilient

- Heterogenous mesh network over multiple BLOS, LOS, and TDL links with automated PACE
- Connection to multiple ground gateways
- Advanced network skills and legacy enhancements

Secure

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

Flexible

- Open system architecture
- Modular, interoperable FTEN software-based network architecture with L-16 gateway
- Multiple radios, sensors, and links can be interconnected through Fuse CORE network controller
- Modular payload may be modified to support customer needs

Intuitive

- Intuitive graphical UI simplifies management of the system
- UI/UX tested in the field by JICOs, aviators, soldiers, and Marines

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KRAKEN 26 Specifications

Physical

Size (L x W x H)	177 x 26 x 33.4 in (pod only) 177 x 26 x 36.4 (antenna and lugs included)
Volume	TBD ft^3
Weight	≤1460 lbs. Pod weight 686 lbs, payload capacity up to 764 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.

- Fuse CORE network controller

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	
Free Space Optics	Developmental

Mesh Networking Options

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

Sensors

DRT and others

High Density Server Options

Platforms

KRAKEN 26 is suitable for a range of platforms, such as:

- B-52
- KC-135
- KC-46
- P-8
- RQ-4

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 26 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 heterogenous mesh.

T3 (Tactical Technologies Toolset)

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.

Master Airborne Networking Integrated Advanced Controller (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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