KRAKEN Expeditionary Gateway

Portable, Secure Network Gateway

Expeditionary kit supporting deployed personnel and platforms on the ground, surface, or undersea with secure SATCOM, mesh networking & TDL Gateway.

KRAKEN™ Expeditionary Gateway (KEG) is a secure, joint interoperable mobile networking solution that enables the bi-directional exchange of sensor data across domains—air, ground, maritime—from remote, austere locations or on the move.

KRAKEN Expeditionary Gateway is a modular, portable station built on our secure, interoperable Fuse Tactical Edge Network (FTEN) architecture. KEG enables assured command and control (C2), accelerating decision-making for forward-deployed and expeditionary forces.

KEG encompasses multiple integrated systems, proven Fuse technologies, and both classified and unclassified servers, enabling the fusion, correlation, and bi-directional exchange of sensor data across domains. Direct connection via SIPRnet into global command nodes allows real-time access to trusted IC products.

The minimized size, weight, and power (SWaP) solution is physically integrated inside portable, waterproof cases with embedded control and cooling. KEG's dual-case design supports easy transition between vehicles, aircraft, and surface vessels. Servers and radios are protected inside the case while laptops, tablets, antennas, and power are connected via sealed rugged cables with locking connectors. Antennas are mountable on the case, on the vehicle, or on a tripod or telescoping mast.

The versatile KEG can run off vehicle power both at the halt or while on the move, staying connected through multi-constellation SATCOM and multiple LOS links. KEG supports the warfighter in maintaining an operational edge in today's C2-challenged environment.

Fuse's KRAKEN Expeditionary Gateway delivers unmatched benefits to network managers, joint interface control officers (JICOs), and system integrators by providing an easy-to-use deployable solution with a multitude of communications and network options.

All-domain
> Purpose-built for distributed all-domain networks and platforms
> Space-layer communications

Mobile
> Low-profile cases can move between vehicles and aircraft as carry-on systems
> Stays connected on the move through both multi-constellation SATCOM and multiple LOS links

Remotely Accessible
> Real-time system management and configuration by authorized local or remote operators

Secure
> Enterprise secure network connection for SIPR and other classified networks
> Fuse KEG with FTEN is the only network solution connecting through multiple joint secure network gateways

Flexible
> Modular, interoperable software-based network architecture
> Interoperable with multiple aircraft, vehicles, and ground gateways
> Works with multiple architectures
> Applications can run on both unclassified and classified servers

Resilient
> Dynamic switching between links and frequencies

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

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KEG Specifications

Physical	
Size (L x W x H)	38.19 (with Cool Collar 49.6) x 23.19 x 16.37 in
Weight	Max 175 (two-man lift)

Customization by request. Currently designed for 6U and 8U, but can be customized to other SWaP needs, subject to testing and validation.

Links & Specific Radio Components

Tactical Data Links

Link-16	MIDS-JTRS, STT, BATS-D, Firenet
TTNT 7.0	MIDS-JTRS, T-1000
TTNT 6.9	QNT-200

Resilient & Persistent SATCOM

Starlink/Starshield	High-performance, v3, v4
Iridium	Certus
Inmarsat	--
Direct to Cell	Developmental low-throughput connection
IBS	ENTR v4
MUOS	PRC-117G

Directional Links

Multi-Beam CDL	SCISR, MMT
Free Space Optics	Developmental

Mesh Networking Options

Silvus	Streamcaster
Trellisware	TSM-X, TSM
Wave Relay	MPU-5
HF	HF Networking / HFIP / BFTN / HF Mesh
Dark Ink	Ask for more details

Embedded Capabilities for KEG

KEG embeds a suite of proven Fuse products, delivering unmatched advanced networking capabilities for expeditionary units.

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.

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.

Smaller single-case option provides pLEO + L16 gateway + Silvus mesh network and CORE compute for lightweight Tactical Edge Network connectivity.

Larger dual-case option includes expansion space for additional radios for increased resiliency and an ability to communicate and exchange data with a wide variety of platforms.

Either single, or dual-case options can include an integrated environmental control system with cooler-sleeve attached to the system case.

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