

- » Smallest, Rugged Type 1 Crypto
- » 20 Mbps (Aggregate) for Dismounted and Field Applications
- » NSA-Certified Type 1 HAIPE® IS V4.1 Compliant



Introducing the lowest size, weight, and power, rugged HAIPE® IP network encryptor. Weighing around half of a pound and delivering 20 Mbps (aggregate) speeds, the Viasat KG-250XS is a Type 1 Inline Network Encryptor (INE) ideal for telecommuting, flyaway kits, small UAVs, and other dismounted or field applications.

Packing big networking power in a small form factor, the Viasat KG-250XS delivers features above and beyond standard HAIPE requirements. Improve performance over high-latency links with embedded multicast video on demand and TCP/IP acceleration. Remotely rekey a network of HAIPE devices from a physically secure location with HAIPE-to-HAIPE over-the-air/net keying.

This device leverages a field-proven software-upgradable design, so it evolves over time to meet new requirements without hardware changes. It also comes equipped with browser-based HMI for easy configurations and centralized INE management, provided at no extra cost.

The Viasat KG-250XS provides trusted IP encryption on-the-go for TS/SCI communications with a ruggedized form factor that won't weigh you down.

TACTICAL APPLICATION EXAMPLE



VIASAT KG-250XS AT-A-GLANCE

Lowest SWaP HAIPE® v4.1

- » Weight 0.65 lb; 3.70 x 1.05 x 3.03 in. (W x H x D)
- » < 5 W typical power consumption
- » MIL-STD-810 rugged

Exclusive Capabilities

- » Quick setup with configuration file export/import
- » Software upgradable to meet evolving cybersecurity requirements
- » Multicast video on demand
- » Embedded TCP/IP accelerator (xPeP)
- » Browser-based HMI configurations
- » Centralized INE management; VINE Manager™ software provided at no extra cost

Crypto-Modernization Centric

- » Programmable encryption
- » Backwards compatible with all previous HAIPE releases
- » HAIPE-to-HAIPE over the air/net keying
- » Device generated shared key (DGSK); alternative to EKMS
- » Supports multiple Communities of Interest and segregation via exclusion keys
- » Usable by coalition allies and Department of Homeland Security

Premium Support

- » 3-year warranty (extended options available)
- » Free training and 24/7 technical support

SPECIFICATIONS

NETWORKING FEATURES AND PROTOCOLS

Protocols Supported	TCP, UDP, IPv4/IPv6 Dual Stack, ICMP, IGMP, ARP, DHCP
Networking Features	Dynamic IP addressing, dynamic key management, red address confidentiality with dynamic peer discovery
Management	SNMPv3 and HTTPS browser-based management, VINE Manager software
Multicast	IGMP on red and black subnet
Quality of Service (QoS)	Type of service octet bypass
Fragmentation	Supports fragmentation and header options for red IP packets
Interfaces RJ-45	Ethernet interface

NETWORK INTERFACES

Plaintext Data Interfaces—Ethernet Interface Adapter

» **Electrical/Mechanical** IEEE 802.3; 10/100 Mbps copper, RJ-45

Ciphertext Data Interfaces—Ethernet Interface Adapter

» **Electrical/Mechanical** IEEE 802.3; 10/100 Mbps copper, RJ-45

COMSEC CHARACTERISTICS

Key Fill Interface	DS-101 over USB
Flexible Keying	EKMS, unclassified/classified DGSK, IKEv2/ECDH, software-upgradeable to KMI OTNK
Crypto Ignition Key	Removal to UNCLASSIFIED CCI

PERFORMANCE CHARACTERISTICS

Throughput	20 Mbps aggregate, asymmetrical
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PHYSICAL CHARACTERISTICS

Dimensions (W x H x D)	3.70 x 1.05 x 3.03 in.
Weight	0.65 lb
Power	< 5 W typical; 12 to 28 VDC; MIL-STD-1275D
Battery	External user replaceable battery

RELIABILITY AND MAINTENANCE

Predicted MTBF	350,000 hr
Predicted MTTR	15 min
Other	Extensive power up and online BIT

ENVIRONMENT

Operating Temperature	-40° to +60° C
Non-operating Temperature	-40° to +71° C
Solar Radiation	MIL-STD-810G, Method 505.5
Humidity	To 95% MIL-STD-810G, Method 507.5

ENVIRONMENT (CONT.)

Altitude	50,000 ft operational; 70,000 ft storage; MIL-STD-810G, Method 500.5
Explosive Atmosphere	MIL-STD-810G, Method 511.5
Rapid Decompression	MIL-STD-810G, Method 500.5
Vibration	MIL-STD-810G, Method 514.6, Category 20 and 24 MIL-STD-167 Type 1
Shock	MIL-STD-810G, Method 516.6; MIL-STD-901D Grade A Class II, Type C
EMI/EMC	MIL-STD-461E
Rain	Blowing rain MIL-STD-810G, Method 506.5
Sand/Dust	MIL-STD-810G, Method 510.5
Fungus	MIL-STD-810G, Method 508.5
Salt Fog	MIL-STD-810G, Method 509.5

CERTIFICATION

NSA Certified for TS/SCI and below

ORDERING INFORMATION

PART NUMBERS

KG-250XS	1204585
Available for Order	Through Viasat
NSN number	5810-01-652-7760



CONTACT

SALES

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