

- » High-speed Encryption for the Tactical Edge to the Enterprise
- » Compact for Mobile, Airborne, Tactical Dismounted, and Infrastructure Networking
- » Full-Mesh Network Capability in a Portable Package
- » Ruggedized to MIL-STD-810
- » Full-Duplex 100 Mbps (200 Mbps aggregate)
- » HAIPE® IS Compliant for TS/SCI and Below, Plus HAIPE FI



Ruggedized for extreme mobile mission requirements and small enough to stow in your cargo pocket, the AltaSec KG-250X from ViaSat delivers high-speed HAIPE® Type 1 IP network encryption for mobile, dismounted, tactical, and enterprise applications. The NSA-certified KG-250X packs big cryptographic power in a small form factor that goes where you go and provides secure connectivity where and when you need it.

Ruggedized to MIL-STD-810 and field tamper recoverable, the KG-250X is the only fully HAIPE-compliant pocket-sized high-speed IP crypto built for mounted and dismounted tactical use. This AltaSec supports secure exchange of classified information up to the Top Secret level and the end-to-end security requirements of the GIG.

Trust this AltaSec Inline Network Encryptor (INE) to create a secure gateway over untrusted networks wherever your missions take you. The KG-250X is Foreign Interoperable (FI) compliant and supports Suite A or Suite B (AES-EFF) operation. Now you can connect securely with coalition partners and other government agencies, in addition to US warfighters.

The KG-250X is the first high-speed IP crypto specifically designed for tactical mounted or dismounted use. This device is compact enough to fit in the warfighter's pocket and weighs 2.8 pounds.

When using the KG-250X on mobile platforms or UAVs, you have the option of controlling the encryptor using a remote interface panel connected via cable—even if the stowed crypto is not physically accessible.

For secure networking in space-limited environments such as vehicles and command centers, you can take advantage of the KG-250X's small size and low power requirements to optimize rack usage. Three KG-250X cryptos can be mounted across a 1U rack.

Featuring automatic OSPF routing and tactical discovery network services, the AltaSec INE provides gateway functionality for your secure network, enabling you to eliminate unnecessary hardware and easily create seamless and scalable network connections. The device's standard interface adapter provides copper interfaces, and can be replaced for use in fiber, wireless, or other network configurations.

With the KG-250X's optional embedded xPEP TCP/IP accelerator, you can supercharge your secure satellite connection for up to six times faster performance over high-latency links.

ALTASEC KG-250X AT-A-GLANCE

COMPACT, RUGGED, AND FLEXIBLE FOR TACTICAL MILITARY USE

- » Dimensions (WHD) 4.45 x 7.96 x 1.52 in, only 2.8 lbs
- » MIL-STD-810 ruggedized
- » Multiple interface configurations available for use with copper (standard), fiber, wireless, or other network configurations
- » Remote front panel interface incorporated into KG-250X to support stowed device or UAV applications with optional remote interface panel
- » Fits three across in a 1U rack

ADVANCED NETWORKING FEATURES

- » Embedded TCP/IP accelerator (optional) with queue construction, QoS, RED, ECN backoff, and satellite simulator
- » 802.1Q VLAN support
- » Multicast with many-to-one tunneling, IGMPv3 host and bypass, and source address replacement
- » OSPF^s with peer discovery and load-balancing; eliminates GRE tunnels
- » Tactical discovery network services^s

HAIPE IS COMPLIANT

- » HAIPE IS compliant (IPv6, IPv4, ESPv3, etc.)
- » Field upgradeable to future versions via software download

FOREIGN INTEROPERABLE FOR SECURE CONNECTIVITY WITH COALITION PARTNERS

- » Suite A, Suite B (AES-EFF) or Suite A/B capable – useable by coalition allies and Department of Homeland Security
- » Supports multiple Communities of Interest (COIs) and Exclusion Key
- » Software and key material source authentication and programmability

CRYPTO-MODERNIZATION CENTRIC

- » Key Management and Encryption Agile
- » Enhanced FIREFLY, Pre-Placed Key, Crypto Ignition Key

EASY TO USE

- » Field Tamper Recoverable
- » Secure browser-based management; VINE Manager software manages multiple AltaSec INEs via SNMP
- » Expedited setup via configuration import utility
- » HAIPE Universal Manager Compliant

BEST VALUE

- » INE trade-ins accepted
- » 3-Year HW and SW warranty (plus extended warranty options)
- » Free training and tech support

AltaSec KG-250X Compact, Rugged Type 1 High-Speed IP Network Encryptor



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 dynamic discovery

Management HTTPS browser-based management; VINE Manager; Standards-based SNMP v3 HAIPE IS; Standard and Enterprise MIBs supported; Can be managed by any HAIPE IS compliant manager, including HAIPE Universal Manager for management in mixed networks; Supports unlimited simultaneous remote managers; VINE NW Manager manages PT and CT sides, allowing configuration (including TFS parameters and PT and CT addresses)

Multicast IGMP host on red and black subnet; Allows aggregation of multiple video streams over a single multicast SA

Quality of Service (QoS) Type of Service octect Bypass, DSCP and ECN support

Fragmentation Supports fragmentation and header options for red IP packets

Flexible Interfaces Ethernet interface, adapter provides for RJ-45 copper; fiber optic; wireless 802.11; fully rugged mil connector and other future interfaces supported in future Interface Adapters

PLAINTEXT DATA INTERFACE - ETHERNET INTERFACE ADAPTER

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

CIPHERTEXT DATA INTERFACE - ETHERNET INTERFACE ADAPTER

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

COMSEC CHARACTERISTICS

Algorithms Type 1 Suite A and Type 1 Suite B (AES-EFF) cryptography

Key Fill Interface DS-101

Dynamic Key Generation FIREFLY (9,17, Enhanced)

Flexibility Modular, Reprogrammable Architecture

Crypto Ignition Key CIK Removal to UNCLASSIFIED CCI

PHYSICAL

Dimensions (WHD) 4.45 x 7.96 x 1.52 in

Weight 2.8 lbs

Power 14 Watts typical; 12 to 28 volts DC; MIL-STD-1275D; MIL-STD-704F

RELIABILITY AND MAINTENANCE

Predicted MTBF 350,000 Hours

Predicted MTTR 15 mins

Other Extensive Power Up and online BIT

ENVIRONMENT

Operating Temperature -40° C to 60° C

Non-operating Temperature -40° C to 71° C

Humidity To 95% MIL-STD-810F, Method 507.4

Altitude 50,000 ft operational; 70,000 ft storage; MIL-STD-810F, Method 500.4

Vibration MIL-STD-810F, Method 514.5, Category 20 and 24 MIL-STD-167 Type 1

Shock MIL-STD-810F, Method 516.5; MIL-STD-901D Grade A Class II, Type C

EMI/EMC FCC Class B and EN 55022 Class B; MIL-STD-461E

Rain Blowing rain MIL-STD-810F, Method 506.4

Sand/Dust MIL-STD-810F, Method 510.4

Fungus MIL-STD-810F, Method 508.5

Salt Fog MIL-STD-810F, Method 509.4

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ViaSat