

AltaSec® KG-255 2-Gbps HAIPE® IP Network Encryptor

- » High-Speed (2 Gbps) GIGEE
- » Type 1 HAIPE® IS V4.1 Compliant
- » NSA-Certified for TS/SCI and Below
- » Unmatched Efficiency, Speed, and Usability



Bandwidth-hungry? Secure your enterprise at 2-Gbps aggregate throughput with the KG-255. Type 1 HAIPE® IS v4.1 compliant, the KG-255 delivers unmatched speed with the lowest power and operating temperature. The KG-255 is a Type 1 Inline Network Encryptor (INE) certified by the National Security Agency and is used throughout the Department of Defense.

The KG-255 provides advanced networking with embedded Open Shortest Path First (OSPF) routing and HAIPE® to HAIPE® Keying (H2HK). Now warfighters can avoid traveling forward and physically delivering keys to network nodes in high risk and remote locations. A single KG-255 can remotely rekey a network of HAIPE® devices and can function behind commercial firewalls, enabling centralized management from a physically secure location.

With exclusive capabilities such as embedded OSPF routing and an intuitive interface, the KG-255 delivers easy-to-use, faster, more efficient network security above and beyond standard HAIPE® requirements.

The KG-255 provides high-speed gateway functionality for secure networks and supports the end-to-end security requirements of the Global Information Grid (GIG). Answer your network's need for performance and speed with the KG-255.

ALTASEC KG-255 AT-A-GLANCE

High-Speed IP Network Encryption

- » 2 Gbps aggregate line rate
- » 1 Gbps full line rate
- » Low latency
- » Full-mesh network capability
- » Top Secret/SCI and Below secure networking

Exclusive Networking Capabilities

- » Software upgradable to meet evolving cybersecurity requirements
- » Embedded OSPF routing with dynamic peer discovery; eliminates GRE tunnels
- » Multicast video on demand
- » Browser-based HMI configurations
- » Centralized VINE Manager™ software provided at no extra cost, seamlessly manage multiple INEs

Suite A and/or Suite B

- » Usable by coalition allies and Department of Homeland Security
- » Supports multiple Communities of Interest (COIs) and segregation via Exclusion Keys
- » Fully FI compliant with software and key material source authentication and programmability

HAIPE® IS Compliant

- » HAIPE® IS v4.1.0 and v3.1.2 compliant
- » HAIPE® to HAIPE® over the air/net keying

Crypto-Modernization Centric

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

Premium Support

- » INE trade-in program available
- » 5-year warranty (extended options available)
- » Free training and 24/7 technical support

AltaSec® KG-255 2-Gbps HAIPE® 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 with dynamic peer discovery, embedded OSPF routing, support for "JUMBO" ethernet frames

SNMP & HTTPS browser-based management,

VINE Manager

Multicast IGMP on red and black subnet Quality of Service (QoS) Type of service octet bypass

Fragmentation Supports fragmentation and header options for red

NETWORK INTERFACES

Red Data Interfaces

Management

» Electrical/Mechanical: IEEE 802.3; copper RJ-45 100/1000 baseT, IEEE 802.3; Optical SFP 1000 base-SX, LX, ZX, various connector styles (I.C. MT-R.I)

Black Data Interfaces

» Electrical/Mechanical: IEEE 802.3; copper RJ-45 100/1000 baseT, IEEE 802.3; Optical SFP 1000 base-SX, LX, ZX, various connector styles (LC. MT-RJ)

COMSEC CHARACTERISTICS

Algorithms U.S. Type 1 Suite A and Type 1 Suite B cryptography

Key Fill Interface

Key Management Dynamic FIREFLY Key Generation (9,17, Enhanced),

Pre-placed Keys. 1700 maximum simultaneous

active security associations (SAs)

Flexibility Modular, reprogrammable architecture, remote

HAIPE® to HAIPE® keying

Crypto Ignition Key CIK based access control, CIK removal to

Unclassified CCI, FTR CIKs available upon request

RELIABILITY AND MAINTENANCE

Demonstrated MTBF > 170,000 hr Predicted MTTR 15 min

Other Extensive power up and online BIT

PHYSICAL

Dimensions (WxHxD) 17 x 1.72 x 19.8 in; 1U 19-inch rack mountable

Weight 13.3 lb; 6.0 kg

Power 90 to 264 Vrms, 47-63 Hz, 72W typical, 89W max

External user replaceable battery, two "AA" **Battery**

lithium cells, 3-year operating life typical

ENVIRONMENT

0° to +40° C at sea level **Operating Temperature**

-25° to +70° C Non-Operating Temperature

10,000 ft above sea level Operating Altitude Non-Operating Altitude 40,000 ft above sea level Humidity 10% to 85% relative humidity,

non-condensing

EMI/EMC FCC class A and EN 55022 class A

CERTIFICATION

NSA Certified for TS/SCI and below TEMPEST Compliant NSTISSAM 1/92

ORDERING INFORMATION

PART NUMBERS

NSN 5810-01-541-8542 Part Number SI-1034961-0000

Available for Order Through ISSP, IDIQ, and ViaSat

CONTACT



SALES

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