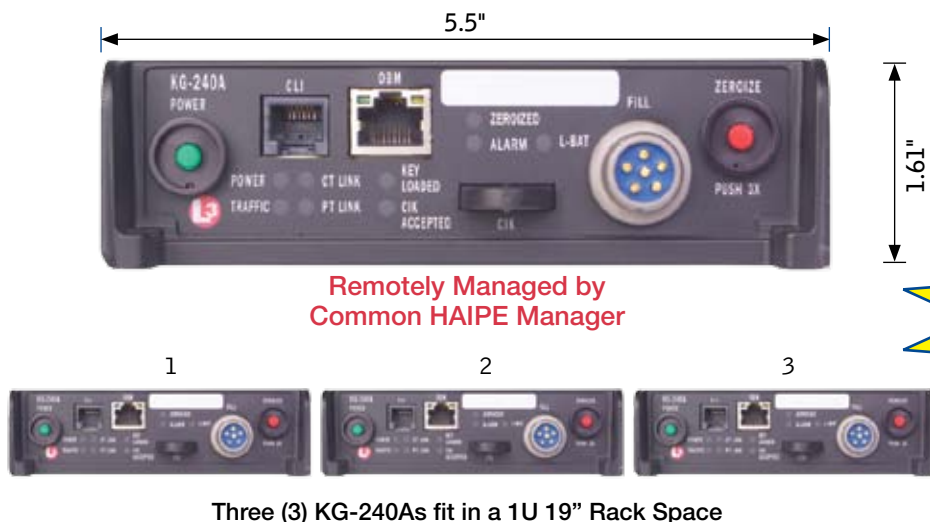




Ruggedized Foreign Interoperable HAIPE®



OVERVIEW

The KG-240A provides Type-1, HAIPE interoperable security supporting network centric operations for U.S. National, Joint/Coalition and Homeland Security mission sat classification levels of TS/SCI and below. The KG-240A features are packaged in a passively cooled, programmable and scalable, small form factor, ruggedized, rapidly deployable network security solution that provides high performance, low latency and interoperable security for IP networks. The initial release includes:

- HAIPE IS v3.1.2 Compliance
- Foreign Interoperability Compliance
- NAT-T support for Remote Access Server (RAS) Operations
- Backward Compatible with Hv1.3.5 and Hv3.0.2
- Advanced Networking/Routing/QoS Features
- Unicast and Multi-Cast Traffic Support
- Built-In Copper and Fiber Optic Interfaces
- Local and Remote Management (SNMP v3)
- Flexible, Scalable, Distributed Management with Web Browser and Northbound Interface (CORBA API)
- Remote or Local Software Upgrade
- Field Tamper Recovery
- User Replaceable Battery

FOREIGN INTEROPERABILITY (FI)

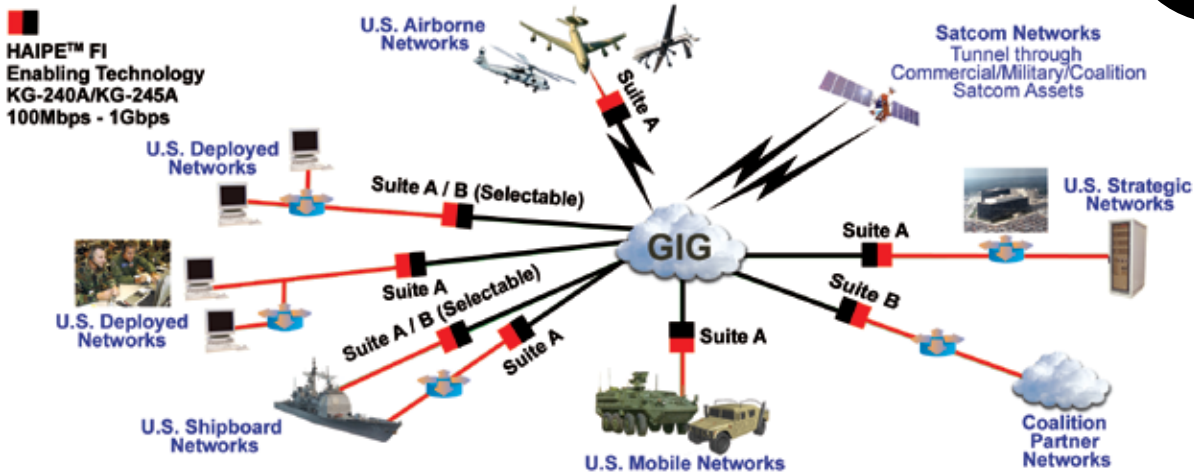
Operations that are focused on an Alliance, Coalition or Homeland Security Community of Interest environments are easily facilitated with the unique capabilities provided in the KG-240A. With both HAIPE and Foreign Interoperability features available in the same solution, the KG-240A offers these users:

- Selectable Suite A or Suite B algorithms
- Software source authentication and programmability
- Key Material source authentication and programmability
- Multi Communities of Interest (COI) support
- Assured COI cryptographic segregation via Exclusion keys

TS/SCI & BELOW HAIPE INTEROPERABILITY SPECIFICATION (IS) COMPLIANCE

- Rel 3.1.2 (NSA Certified)
 - NAT-Traversal (NAT-T)
 - Foreign Interoperability (FI)
 - Suite A or Suite B
 - IPv4/6 Dual Stack
 - Legacy HAIPE IS rekey v1.3.5
- Lowest Cost of Ownership
 - Standard 5-Year Warranty
 - No Cost Training & Hot Line
 - User Friendly Operations

KG-240A 100Mbps HAIPE® IS v3.1.2



RELIABILITY/ENVIRONMENTS

- MTBF: 256K hours, Ground Fixed
- Temperature: Op (-40°C to +51°C; -40°F to +124°F)
Non Op (-40°C to +71°C; -40°F to +160°F)
- Passive Cooling
- Humidity: 90% Non-Condensing
- Vibration:
 - Composite Wheeled Vehicle MIL-STD-810F
 - Fixed Wing Turbo Jet/Turbo Fan Engines RTCA/DO-160D
 - Shipboard Equipment (167-1)

PHYSICAL/INTERFACES

- Size/Weight: 5.5" w x 1.61" h x 18.2 d"; 6.9 lbs
- I/O: Plain Text (Red/Ciph Text (Black)
 - Copper: RJ-45 10/100 ETHERNET
 - Fiber: FX LC Connector
- Power: 28W; 12Vdc; Ext AC Adapter (Included) 90-256 VAC; 47-63 Hz
- Management:
 - Local: Command Line Interface (RS-232)
 - Remote: In-Band through CT or PT Ports (SNMP)
 - Remote: Out-of-Band Management (HW Ready)

SECURITY

- 100 Active PPKs; 6-FF/EFF keysets; 8 User CIKS; Field Tamper Recovery Key
- 4/8/48 Byte Cipher Blocks
- 1000 Simultaneous Active Security Associations
- COI Separation via Exclusion Keys
- SW & Key Source Authentication and Programmability
- Suite A & B User Selectable Configurations
- Remote Control Hardware Interface: Zeroize, Power, Status
- Traffic Flow Security

ADVANCED NETWORKING

- IPv4/6 Dual Stack
- Routing:
 - HAIPE IS v3.1.2 Static; Dynamic Discovery
 - RIP; Generic Discovery Client, OSPF Tunnelling
- QoS: ToS Bypass/Setting
- Multiple Manager Support

- Supports both Key Load & Key Changeover/Update while in traffic
- Automated Recovery of lost SAs
- Fragmentation/Reassembly
- NAT-Traversal
- ICMP/PING; IGMP v1/2/3 (Multicast); PMTU Discovery; SNMP v3; ARP; UDP; TCP; PHRD; SA Orphan Recovery
- Performance: Less than 100us latency; Full Wireline
- 100 Mbps (Aggregate to 200 Mbps)
- Explicit Congestion Notification Bypass HAIPE

Secure Your IP with L-3 HAIPE®

- ✓ HAIPE IS Interoperable
- ✓ TS/SCI & Below
- ✓ User Friendly
- ✓ Smallest Form Factors
- ✓ Highest Performance
- ✓ Software Upgradable

HAIPE® High Assurance Internet Protocol Encryptor is a registered trademark of the National Security Agency.

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