

RedEagle™ KG-240

**Provides HAIPIS Interoperable
Network Encryption for Full Duplex,
Simplex, and Multicast IP Networks**



FEATURES

- HAIPIS Interoperability
- 100 Mbps "Wire-speed" Throughput (200 Mbps Aggregate)
- Type I, TS/SCI and Below
- FIREFLY and Prepositioned Keys
- 512 Simultaneous Security Associations
- Dynamic Discovery and Static Routing
- 20,000 Redside Hosts and Subnetting
- Full Duplex, Simplex and Multicast
- Local and Remote Management
- Full "Remote" Programmability
- Desktop or 19" Rack Mountable
- Crypto Modernization Ready

RedEagle™
KG-240

PRODUCT DESCRIPTION

The RedEagle™ KG-240 is a HAIPIS* interoperable 100 Mbps network encryptor supporting security levels of TS/SCI and below. With both Red and Black 10/100 Base T (RJ-45) network interfaces the RedEagle™ INE-100 separates the network into two parts: Protected and Public. The RedEagle™ KG-240 allows tunneling of classified IP traffic through an unclassified IP network, tunneling of compartmented data through a lower-security level network, or tunneling of unclassified traffic through a classified network. The RedEagle™ KG-240 is fully software programmable (crypto, key management, application and protocols) from a remote location using its RedEagle™ Manager.

APPLICATIONS

Network Secure Communications:

- Virtual Private Networking
- SAN
- Multi-Security Level Networking
- Video Teleconferencing
- Multicast
- TS/SCI and Below
- Foreign Interoperable Ready (CCEB, NATO Coalition)

SPECIFICATIONS

RedEagle™ KG-240

PHYSICAL CHARACTERISTICS

Size: 2.5" H x 17" W x 14.7" D

Weight: 10 lbs.

Mounting: Desktop or 19" Rackmount (with supplied brackets)

SECURITY

Authentication:

- CIK-based access control (supports up to 8 CIKs)
- Device-to-device authentication
- Access control lists
- Security level checking

Encryption/Modes:

- Type 1 traffic encryption - SBU to Top Secret/SCI
- Programmable algorithm implementation
- 8-byte and 48 byte crypto block sizes
- Multi Security Level Enclaves by "Nesting" INE's
- ESP tunnel mode (user protocol "agnostic")
- Up to 512 simultaneous active security associations between RedEagle™ or other HAIPIS compliant devices
- Up to 20K Redside Hosts and Subnetting
- Supports Traffic Flow Security

Key Management:

- Dynamic FIREFLY key generation
- Prepositioned keys
- DTD-compatible key fill via DS-101
- Supports Multiple Universal KeySet for National, CCEB, NATO and Coalition Operations
- Remote or Local Zeroization

Key Retention

- No user replaceable battery
- 36 months key storage without AC power

MANAGEMENT

Interfaces:

- RS-232 menu-driven local console interface
- In-band via IEEE 802.3 Ethernet

Security/Configuration:

- Secure, Authenticated Remote Management
- Extensive audit logging
- Alarm condition detection and reporting
- Configuration and security management
- Secure remote download of software updates and new algorithms
- Operational monitoring
- SNMP in-band management
- Common Management Information Base (MIB)
- Remote Zeroization



The Type 1 encryption provided by the KG-240 is part of the Department of Defense *Defense in Depth* strategy. Type 1 encryption is only one portion of the overall defense in depth. A comprehensive network information Assurance strategy involving *Defense in Depth* is required to ensure secure and reliable protection for sensitive and classified information

NETWORK INTERFACES

Plaintext:

- IEEE 802.3 Ethernet
- 10/100 Base T (RJ-45)
- Auto-sensing LAN Port (crossover)

Ciphertext:

- IEEE 802.3 Ethernet
- 10/100 Base T (RJ-45)
- Auto-sensing LAN Port

Data Rates Supported:

- Up to 100 Mbps, full duplex (aggregate 200 Mbps throughput)

Protocols Supported:

- IP, TCP, UDP, SNMP, ESP, IKE, HAIPIS
- ToS bits, ICMP and IGMP bypass capable

ENVIRONMENTAL

Operating:

- Temperature: 0° to 50° C (32° to 122° F)
- Humidity: up to 90% non-condensing
- Altitude: -200 to 10,000 Ft

POWER REQUIREMENTS

Universal Autoranging Power Supply:

- 100-264 VAC @ 50/60 Hz
- 25 Watts typical

DESIGN COMPLIANCE

EMC/EMI:

- FCC Part 15 Class B

HAIPIS

Safety:

- UL 1950

Security:

- NSA Type I
- NSTISSAM TEMPEST 1/92

RELIABILITY, WARRANTY AND TRAINING

Reliability: MTBF 100k Hrs (Per Telcordia Issue 1)

Standard 2 Year Hardware / 3 Year Software

- Extended warranty options available

Installation, Configuration and Management Training Available

RedEagle™ KG-240 incorporates NetHawk VPN technology licensed by SafeNet Corporation.

For Additional Information Contact:

Robert Coia

L-3 Communication Systems-East

One Federal Street, Camden, NJ 08103

Telephone: 856-338-6277

Fax: 856-338-2741

email: RedEagle@L-3Com.com

or Visit our Website at:

<http://www.L-3Com.com/RedEagle>



communications

Communication Systems-East