

Sectera™ In-Line Network Encryptor (KG-235)

The high assurance IP solution.



The Sectera In-Line Network Encryptor (INE) is specifically designed to support IP/Ethernet operating over standard commercial networks requiring U.S. Government Type 1 security.

The Sectera In-Line Network Encryptor (KG-235) protects all levels of data, including Government Classified up through TS/SCI. It provides confidentiality, data integrity, peer identification, authentication and mandatory/discretionary access control services. The Sectera INE is software configured using the new Sectera INE Configuration Manager and is keyed using material supplied by the U.S. Government's Electronic Key Management System (EKMS), for Type 1 product.

Utilizing General Dynamics' Advanced INFOSEC Machine (AIM) technology, the Sectera INE provides a high assurance security design approach as well as a very flexible application set defined by the software.

The Sectera In-Line Network Encryptor is fully software re-programmable. It allows the introduction of new features, algorithms and software maintenance.

The INE provides both local and remote configuration management capabilities that allow:

- Flexible, discretionary access control
- Keying, auditing and diagnostics
- Routing information

The Sectera INE is compatible with the Network Encryption Systems (NES) already in service. It also has been designed to meet the new U.S. Government standards for security and network operations based on the Internet security and key management protocols IPsec/IKE. The architecture has been designed to be software upgradeable to the future High Assurance IP Interface Specification (HAIPIS).

The Sectera INE allows the creation of VPNs via high assurance security access control and encryption, while taking advantage of the economies of scale and built-in management facilities of large public networks.

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Technical Specifications

Physical Characteristics:

- Width: 8.25"
- Height: 4.75"
- Depth: 12.5"
- Weight: 8 pounds

Operator Interface:

- 32 Character 2 line liquid crystal display
- 12 Key Numeric Keypad
- Multi-color LED status indicator
- Datakey port KSD-64A or PKA64KC
- Battery compartment
- Double Action zeroize switch
- DS-101 DTD interface port (Future Release)
- Power ON/OFF switch

Environmental:

- -30 degrees C to +65 degrees C storage
- 0 degrees C to +50 degrees C operating
- 85% relative humidity (noncondensing) operating

Communications Interfaces:

- Up to 20 Mbps aggregate data throughput
- 2 RJ-45 10/100 Base T
- 2 DB-9 Serial Ports

Power:

- External power supply
- AC Input: 90 - 250 VAC auto-sensing at 47 to 63 HZ single phase

Certification:

- TEMPEST Approved
- Tamper Protected
- Controlled Cryptographic Item (CCI) rating
- UL 1950
- FCC Part 15 Class B

Addressing:

- 1000 destination INE identities (maximum)
- 64 IP host addresses (or ranges) or MAC addresses behind each INE (maximum)

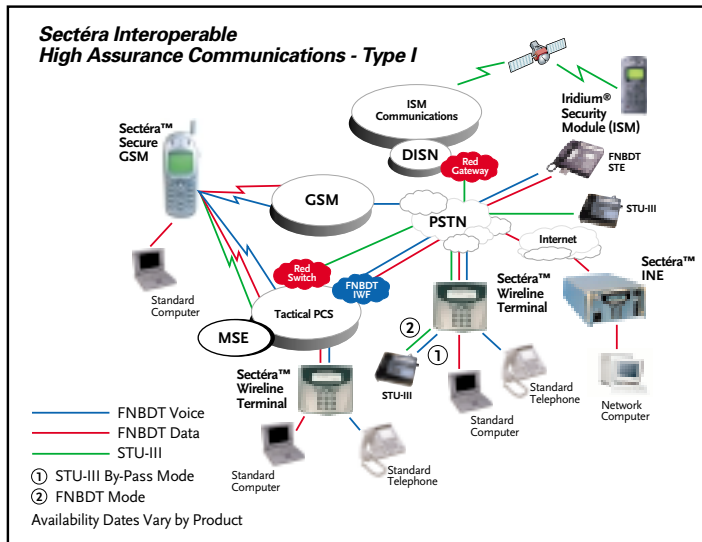
Protocols:

Common Protocols

- Ethernet MAC (Version 1.0 or 2.0)
- ANSI/IEEE 802.3 MAC, 802.2 LLC (with SNAP extension per RFC 1060 and RFC 1042)
- Address Resolution Protocol (ARP) per RFC 826
- Internet Control Message protocol (ICMP) "PING" echo reply
- Broadcast and Multicast

Legacy Protocols

- DoD IP per MIL-STD-1777
- SDNS Security Protocol 3
- SDNS Key Management protocol



Network Management Agent for SNMP Management:

- SNMP V3 Capable
- Provides manageable agents on both the host (RED) and network (BLACK) interfaces
- Operates with standard SNMP Network Management Stations
- Supports most standard objects defined in MIB-II
- Supports TCP Transport as a private MIB

SMA for Security Manager:

- Provides manageable agent on the host (RED) side
- Communicates with INE Configuration Manager
- Provides remote capabilities such as:
 - Reset/query of time/day clock/date
 - Query the battery status
 - Request Audit Data
 - Configuration of INE
 - Enable Task Logging to the INE

Key Management:

- Meets Secure Data Network Standards (EKMS)
- Single Crypto Ignition Key (CIK) support
- Pre-Placed keys (Future Release)
- Up to 512 active TEKs; least recently used algorithm provides virtually unlimited number of TEKs

The Type 1 encryption provided by the Sectera In-Line Network Encryptor (INE) 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.

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