# KIV-7MiP

*The First Network and Link HAIPE® Solution*



## Key Benefits

**First-ever Crypto Modern Link/ Network Encryption in one box**

**HAIPE®-compliant Secure IP Plug-in Module**

**Two Link Channels (50 Mbps per channel) AND one HAIPE® Channel (100 Mbps)**

**In-band Remote Management of Crypto Assets**

**Upgradeable Firmware and HAIPE® Channel Software (KIV-7M to 7MiP conversion)**

**Meets CMI Cornerstones**
*Assured Security Robustness*
*Crypto Algorithm Compliance*
*Interoperability*
*Releasability*
*Programmability*

**NSA-Certified Type 1 Device**

**Enhanced Key Management**

### KIV-7MiP adds a Type 1 HAIPE® channel to KIV–7M capabilities and features.

With the KIV-7MiP, SafeNet again sets new standards of excellence for Information Security. The next generation of the venerable KIV-7 family provides both programmable link and network encryption and leads the way in implementing the U.S. Government's Cryptographic Modernization (CM) Initiative, and is among the first products designed to fully meet the five CM cornerstones:

- Assured Security Robustness
- Cryptographic Algorithm Compliance
- Interoperability
- Releasability
- Programmability

The KIV-7MiP implements all U. S. National Security Agency requirements for Type 1 certification, and is approved for use at the highest level of assurance. This assured security robustness reflects the integrity of the KIV-7MiP's overall design.

KIV-7MiP's dual link channels are fully compliant with the NSA's Link Encryptor Family Cryptographic Interoperability Specification. It is interoperable with previous versions of the KIV-7 family as well as the KG-194/A series of encryptors.

KIV-7MiP's network encryptor channel is also compliant with the NSA's High Assurance Internet Protocol Encryption Interoperability Specification, (HAIPE IS). Its innovative multi-channel design allows KIV-7MiP users to replace three legacy devices with one KIV-7MiP, thus recovering valuable space in fixed shelter environments and reducing weight for mobile applications.

Each link channel is independently configurable and able to operate in full duplex mode at 50Mbps in each direction. The network encryptor channel is also independently configurable and able to operate at 100Mbps in each direction at the same time. In addition, each of the three channels may be configured to independent security classification levels.

This HAIPE® compliant upgrade and the link backward compatibility allows the community of users to conduct a phased migration to the Global Information Grid without losing connectivity to legacy architectures.

The KIV-7MiP is the next generation in a tradition of excellence from SafeNet, the foundation of information security.

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## Features and Benefits

### General

- Independent security classification levels per channel
- Type 1 data encryption
- Universal half-height computer peripheral configuration
- User–friendly menu–based operator interface
- Non–volatile storage of multiple user–defined configurations
- Crypto–Ignition–Key (CIK) protection of internally stored keys
- Low–power 5V DC operation
- Compliant with NSA INFOSEC and TEMPEST requirements
- Single or rack mount options

### Link

- Handshaking and synchronization functionality for Time Division Multiple Access (TDMA) architectures
- KIV-7, KIV-7HS, KIV-7HSA, and KIV-7HSB interoperability
- KG-84/84A/84C interoperability
- KG-194/A interoperability
- KIV-19 and KIV-19A interoperability
- Synchronous data rates to 50 Mbps
- Flexible key management interface, including DS-101/102
- Plain text header bypass mode for initial modem setup/dialing
- MILSTAR compatible

### Network

- HAIPE IS 1.3.5 compliant upgradeable to HAIPE IS 3.1
- 5,000 Security Associations
- User Multicast
- Dynamic Discovery
- Standard 10/100 Mbps Ethernet interfaces
- 600 Pre-Placed Keys
- FireFly and Enhanced FireFly support
- Local and Remote Graphical User Interface for Configuration/Control
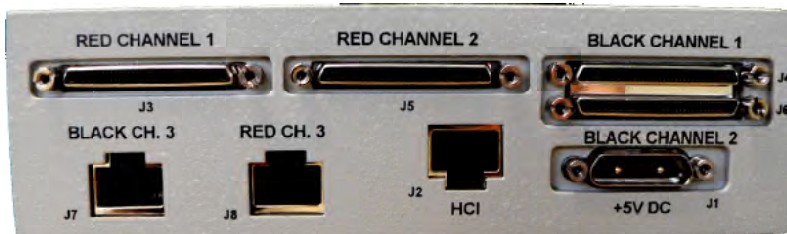


*KIV-7MiP Rear Panel*

## Specifications

### HAIPE Link Key Management

*Firefly and Enhanced Firefly Load, PPK, PPK Chain, Vector Associate PPK or Vector to Tunnel Display Keys Zeroize Any Key or All Keys*

### HAIPE Key Storage

*600 Operational TEKs*

### HAIPE Communication Modes

*Unicast Multicast Discovery PPK Based IKE Based Half Duplex Full Duplex Independent Security Classification*

### HAIPE Data Rate

*10 Mbps fixed 100 Mbps fixed 10/100 Mbps Auto*

### HAIPE Electrical Interfaces

*Ethernet IEEE 802.3 and IEEE 802.3u*

### Power

*5V DC ±5% Consumption: 5W typical; 35W max.*

### Temperatures

*Operating: -40° C to 55° C Storage: -55° C to 85° C Tested to MIL-STD-810F*

### Size and Weight

*Height: 1.71 in. Depth: 11.02 in. Width: 5.88 in. Approximately 5 lbs.*

### Predicted MTBF (at 25° C)

*Greater than 77,000 hours (ground benign environment) Greater than 17,000 hours (naval sheltered environment)*

### MTTR

*Replacement Time: 15 minutes*

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