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AltaSec® IPS-250

Non-CCI HAIPE® IP Network Encryptor

- Secure Connectivity in High-Risk Environments — Leave-Behind Capable
- Suite B Encryption for Type 1 Secret and Below
- Mission-Appropriate for Allies, Government Agencies, Law Enforcement, and 1st Responders
- The 1st CHVP HAIPE® Non-CCI Crypto



Create secure IP connections with U.S. warfighters and government agencies, without the deployment limitations, expensive logistics, and lifecycle costs associated with Controlled Cryptographic Items (CCI). The AltaSec IPS-250 is an Inline Network Encryptor (INE) that complies with NSA Cryptographic High Value Product (CHVP) Policy CNSSI_4031 for Non-CCI handling of HAIPE® Suite B devices.

Loaded with HAIPE® IS Compliant Suite B, the IPS-250 is ideal for high-risk and unmanned environments, including leave-behind and coalition networks.

Supporting the secure exchange of classified information up to the Secret level, this INE is appropriate for government agencies with users in their networks who may not have COMSEC accounts or want to minimize COMSEC logistics. Organizations such as the FBI, FEMA, Department of Homeland Security, and first responders can securely exchange information over IP between agencies, creating secure gateways over untrusted networks wherever and whenever needed.

With exclusive capabilities such as embedded network acceleration and an intuitive interface, the IPS-250 delivers easy-to-use, faster, more efficient network security above and beyond standard HAIPE® requirements.

To avoid COMSEC logistics and start connecting securely with defense and other government agencies, count on the IPS-250 — the first Non-CCI device for high-speed Type 1 IP encryption.

ALTASEC IPS-250 AT-A-GLANCE

CHVP CONOPS Advantages

- Secret and Below InfoSec without the COMSEC logistics
- Non-CCI and interoperable with CCI HAIPE® devices operating in Suite B
- Secure networking between military and government agencies
- Secure connectivity for high-risk operations such as UAVs, unattended sites, and sensors
- Leave-behind capable

HAIPE IS/FI Suite B Operation

- AES-256 (GCM mode)
- ECDSA Authentication
- SHA-256/384 Hashing
- HAIPE® IS v4.1.0 and v3.1.2 compliant
- HAIPE® to HAIPE® over the air/net keying

Exclusive Networking Capabilities

- Software upgradable
- Faster performance over high-latency links with optional embedded TCP/IP accelerator (xPeP)
- Multicast video on demand
- Browser-based HMI configurations
- Centralized VINE Manager™ software provided at no extra cost, seamlessly manage multiple INEs

High-Speed IP Network Encryption

- Full-duplex 100 Mbps Ethernet (200 Mbps aggregate)
- Full-mesh network capability

Premium Support

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

AltaSec® IPS-250 CHVP Type 1 High-Speed IP Network Encryptor



SPECIFICATIONS

NETWORKING FEATURES AND PROTOCOLS

Protocols Supported	TCP, UDP, IPv4/IPv6 Dual Stack, ICMP, IGMP, ARP, DHCP
Networking	Dynamic IP addressing, dynamic key management, red address confidentiality dynamic peer discovery, virtual local area networks, embedded OSPF routing
Management	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 IP packets

NETWORK INTERFACES

Red Data Interfaces - Ethernet

» Electrical/Mechanical: IEEE 802.3; 10/100 Mbps copper, RJ-45

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CRYPTO CHARACTERISTICS

Algorithms	Type 1 Secret and Below Suite B Cryptography
Key Fill Interface	DS-101
Flexibility	Modular, reprogrammable Architecture
Crypto Ignition Key CIK	Removal to UNCLASSIFIED NON-CCI

PHYSICAL

Dimensions (WxHxD)	7.5 x 1.68 x 11.9 in; 190.5 x 42.7 x 302.2 mm
Weight	6.5 lb; 2.9kg
Power	+5 VDC and +3.3 VDC; 13.7W typical
Battery	External user replaceable battery, one "1/2AA" lithium cell, 9 month operating life typical

RELIABILITY AND MAINTENANCE

Predicted MTBF	312,000 hours
Predicted MTTR	15 mins
Other	Extensive power up and online BIT

ENVIRONMENT

Operating Temperature	0° to +50°C cold starting; tested to -23°C ambient
Non-Operating Temperature	-20° to +70°C
Operating Altitude	Up to 50,000 ft
Non-Operating Altitude	Up to 69,000 ft
Non-operating rapid	27,000 ft to 69,000 ft in 15 seconds

Shock: MIL-STD-810F 516.5 Procedure I SRS curve: 9 to 45 g from 10 Hz to 45 Hz w 6dB slope, 45 g from 45 Hz to 2000 Hz

Vibration

» MIL-STD-810F 514.5 Procedure I Cat 24: 0.04g2/Hz from 20 Hz to 2000 Hz for 15 minutes each on 3 main orthogonal axes

» MIL-STD-810F, 516.5, Procedure I, ground equipment with a peak acceleration of 40g

» RTCA-DO-160E, Section 8, Category S, Curve B: 0.012g2/Hz for 10 to 40 Hz, 0.012g2/Hz to 0.002g2/Hz for 40 to 100 Hz, 0.002g2/Hz for 100 to 500 Hz, and 0.002g2/Hz to 0.00013g2Hz for 500 to 2000 Hz for 1 hour each on 3 main orthogonal axes

EMI/EMC	FCC Class B and EN 55022 Class B
Humidity (Non-Condensing)	95% @+60°C for 96 hours per MIL-STD-810F, Method 507.4

CERTIFICATION

NSA Certified for Secret and Below

TEMPEST Compliant NSTISSAM 1/92

ORDERING INFORMATION

Part Number	1101398
Available for Order	Through IDIQ and ViaSat

CONTACT

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