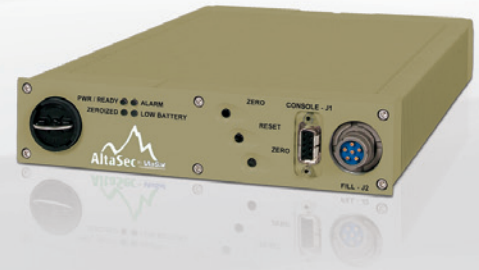


CONNECT SECURELY IN HIGH-RISK ENVIRONMENTS – WITHOUT CCI LOGISTICS

- » CHVP HAIPE® IS and FI Suite B compatible network encryption for Type 1 Secret and Below communications
- » Mission-appropriate for allies and high-risk operations without potential Suite A compromise
- » Ships without COMSEC handling or logistics
- » Same familiar HMI as KG-250 for easy operation without new training
- » Trusted interoperability with CCI HAIPEs, creating secure connections between US and coalition forces, government agencies, law enforcement and first responders



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 from ViaSat is an Inline Network Encryptor (INE) that complies with NSA Cryptographic High Value Product (CHVP) Policy CNSSI_4xxx for Non-CCI handling of HAIPE Suite B devices. This crypto is NSA-certified to support the secure exchange of classified information up to the Secret level, but does not require the special handling and accounting controls of COMSEC equipment.

You can rely on this CHVP crypto for high-risk operations, such as in UAVs, unattended sites, sensors, coalition partners, and overrun-risk areas.

Loaded with HAIPE® IS Compliant Suite B, the IPS-250 is ideal for warfighters who need secure IP connectivity in high-risk environments or those who need to communicate with DOD users with standard CCI HAIPE devices and/or government agencies. This AltaSec crypto can be easily transported on pallet to anywhere in the world. No paperwork, no logistics, no hassle.

The IPS-250 is the first INE appropriate for use by government agencies with users in their networks who may not have COMSEC accounts. Armed with this INE, organizations such as the FBI, FEMA, Department of Homeland Security, and first responders can securely exchange information over IP between agencies. Emergency response and other agency workers can use this crypto to easily create secure gateways over untrusted networks wherever and whenever needed.

With the IPS-250's optional embedded xPEP TCP/IP accelerator, you can supercharge your secure satellite connection for up to six times faster performance over high-latency links. Pair the IPS-250-with-xPep with ViaSat's AcceleNet® acceleration and data compression technology for even faster performance in web, email, and file transfers over satellite and wireless connections.

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

ALTASEC IPS-250 CHVP CRYPTO AT-A-GLANCE

POWERFUL SECRET AND BELOW INFORMATION SECURITY WITHOUT THE LOGISTICS

- » Non-CCI and interoperable with CCI HAIPE devices operating in Suite B
- » Secure networking between military and government agencies

HAIPE IS/FI SUITE B OPERATION

- » AES-256 (GCM mode)
- » ECDSA Authentication
- » SHA-256/384 Hashing
- » Software-upgradeable to COTS Suite B keying as NSA policy develops

ROBUST NETWORKING FEATURES

- » Full Duplex 100 Mbps Ethernet (200 Mbps aggregate)
- » Embedded xPEP TCP/IP acceleration (optional)
- » Multicast capable with video on demand
- » Control of QoS bits for end-to-end management
- » Over-the-Air/Over-the-Net Keying 3.1

EASY TO USE

- » Secure browser-based management; VINE™ Manager software
- » Optional remote interface panel for convenient management of stowed devices in mobile applications
- » Remote zeroization and heartbeat signaling for UAV applications

CONOPS ADVANTAGES ENABLED BY CHVP IPS-250

- » Less risk in potential overrun situations. (No enemy re-engineering once CIK is removed due to no classified content in device)
- » Compatible with existing keying infrastructure
- » Trusted box implementation reduces COTS supply chain analysis risk and allows easy setup of unattended sensor platforms
- » Give IPS-250 to government agencies and coalition partners, and establish interoperability with your CCI devices

PREMIUM SECURE NETWORKING SOLUTION

- » TACLANE® trade-ins accepted; free training and technical support
- » 3-Year HW and SW warranty (plus extended warranty options)

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 (host and bypass modes), ARP, DHCP

Networking Features Dynamic IP addressing, dynamic key management, red address confidentiality dynamic discovery

Management 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

RED DATA INTERFACE - ETHERNET

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

BLACK DATA INTERFACE - ETHERNET

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

COMSEC 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 (WHD) 7.5 x 1.68 x 11.9 in; 190.5 x 42.7 x 302.2 mm

Weight 6.5 lbs; 2.9kg

Power +5 VDC and +3.3 VDC; 13.7W typical

RELIABILITY AND MAINTENANCE

Predicted MTBF 312,000 hours

Predicted MTTR 15 mins

Other Extensive power up and online BIT

ENVIRONMENT

Operating Temperature -23°C to +50°C

Non-Operating Temperature -20°C 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 decompression

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 0.00013g²/Hz 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

TEMPEST Compliant NSTISSAM 1/92

CONTACT

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SALES

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ViaSat