

IPS-250X family

Viasat BEYOND Encryption

Cloud & Enterprise Solutions



IPS-250X family

Ruggedized encryption for tactical, mobile and airborne missions

- › NSA-Certified for U.S. Secret and below
- › Cryptographic High Value Product (CHVP)
- › Full HAIPE interoperability
- › NATO approved (NATO NINE interoperability)
- › 200 Mbps aggregate throughput
- › Heartbeat Zeroize, Remote Zeroize, Remote Management

Cryptographic High Value encryptors

Supporting the secure exchange of classified information up to the Secret level, the IPS-250X and IPS-250XM devices are ideal for operations that need to create secure IP connections without the deployment, logistics, and lifecycle costs associated with Controlled Cryptographic Items (CCI). The IPS family is appropriate for government agencies, such as the FBI, Department of Homeland Security, and first responders, as well as sovereign and coalition partner networks.

The IPS-250X and the IPS-250XM are HAIPE Suite B Compliant and packaged in a low-SWaP, rugged form factor. These network encryptors are ideal for high-risk and unmanned environments. With an optional remote front panel, aircraft and UAV operators can interface with the IPS-250X/IPS-250XM via cable, providing control access even if the stowed crypto is not physically within reach. The user-configurable heartbeat zeroization function makes it ideal for high-risk, unmanned operations to ensure remote zeroization regardless of connectivity.

The IPS-250X and IPS-250XM thermal design and packaging provides effective power management, high reliability, lower touch temperatures, and can accommodate diverse operations from highly tactical mobile environments to remote desktop applications.

For a less costly alternative to COMSEC logistics, count on Viasat's IPS-250X and IPS-250XM for compact, rugged, high-speed protection when connecting securely with government agencies and coalition partners.



KEY HIGHLIGHTS

- › Lowest SWaP 100 Mbps Class Encryptor
- › Size: 4.46" W x 1.54" H x 8.49" D
- › Weight: 3.0 – 3.2 lb.
- › 12-28V power input range for both tactical and aerial applications
- › Browser-based internal HMI configuration and management
- › Interoperable with U.S. Army approved CHIMERA management software
- › VINE Manager software for advanced management and automated deployment
- › 3-Year Warranty
- › Training and 24/7 technical support

ACCESSORIES

Two different Rack Mount Kits are available for a standard 1U, 19" rack mount enclosure.

The Universal Rack Mount can be used to secure up to three IPS-250X or IPS-250XM devices.

The Power Save Rack Mount also secures up to three IPS-250X or IPS-250XM devices and includes a power module that can run them from a single power supply.

Viasat IPS-250X/IPS-250XM

SPECIFICATIONS

NETWORKING FEATURES AND PROTOCOLS

Protocols Supported	TCP, UDP, IPv4/IPv6 Dual Stack, ICMP, IGMP, ARP, DHCP
Networking Features	Dynamic IP addressing, dynamic key management, red address confidentiality with dynamic peer discovery
Management	SNMPv3 and HTTPS browser-based management, VINE Manager software
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
Flexible Interfaces	Ethernet interface provides for RJ-45 copper or mil circular connectors

NETWORK INTERFACES

Plaintext Data Interface	Ethernet Interface Adapter
Electrical/Mechanical	IEEE 802.3; 100 Mbps copper, RJ-45
Ciphertext Data Interface	Ethernet Interface Adapter
Electrical/Mechanical	IEEE 802.3; 100 Mbps copper, RJ-45

CRYPTO CHARACTERISTICS

Algorithms	Secret and Below Suite B cryptography
Key Fill Interface	DS-101
Flexible Keying	EKMS/KMI



IPS-250X Rear View – shown with coverplate over the
REMOTE - J4 connector



IPS-250XM Rear View

PHYSICAL CHARACTERISTICS

Dimensions (W x H x D)	4.472 x 1.555 x 8.615 in max.
Weight	3.0 lb
Power	14 W typical; 12 to 28 VDC; MIL-STD-1275D; MIL-STD-704F
Battery	External user replaceable battery, one "1/2AA" lithium cell, 3.5 year operating life typical

RELIABILITY AND MAINTENANCE

Predicted MTBF	350,000 hr
Predicted MTTR	15 min
Other	Extensive power up and online BIT

ENVIRONMENT

Operating Temperature	-40° to +60°C
Non-operating Temperature	-40° to +71°C
Solar Radiation	MIL-STD-810G, Method 505.5
Humidity	To 95% MIL-STD-810G, Method 507.5
Altitude	50,000 ft operational; 70,000 ft storage; MIL-STD-810G, Method 500.5
Explosive Atmosphere	MIL-STD-810G, Method 511.5
Rapid Decompression	MIL-STD-810G, Method 511.5
Vibration	MIL-STD-810G, Method 514.6, Category 20 and 24 MIL-STD-167 High Assurance
Shock	MIL-STD-810G, Method 516.6; MIL-STD-901D Grade A Class II, Type C
EMI/EMC	MIL-STD-461E
Rain	Blowing rain MIL-STD-810G, Method 506.5
Sand/Dust	MIL-STD-810G, Method 510.5
Fungus	MIL-STD-810G, Method 508.5
Salt Fog	MIL-STD-810G, Method 509.5

ORDERING INFORMATION

IPS-250X	P/N 1190477 NSN 5810-01-654-6415
IPS-250XM	P/N 1374702 NSN TBD
1U 19" Universal Rack Mount	P/N 1283625
1U 19" Power Saving Rack Mount	P/N 1276459

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