

# IPS-250X

Non-CCI 200 Mbps IP Network Encryptor  
 SECAN Approved - NATO NINE Interoperable

**Ideal for Unattended, Unmanned, and Coalition Applications — Full HAIFE® Interoperability**

**Leave-Behind Capable — Remote Management and Zeroization to render the device useless**

Create secure IP connections with US warfighters and government agencies, without the deployment limitations, expensive logistics, and lifecycle costs associated with Controlled Cryptographic Items (CCI). The Viasat IPS-250X is an Inline Network Encryptor (INE) that complies with NSA Cryptographic High Value Product (CHVP) Policy CNSSI-4031 for Non-CCI handling of HAIFE Suite B devices.

Supporting the secure exchange of classified information up to the Secret level, this device is appropriate for government agencies, such as the FBI, Department of Homeland Security, and first responders, with users in their networks who may not have COMSEC accounts or want to minimize COMSEC logistics.

**200 Mbps Encryptor in a Small, Lightweight, Low Power Form Factor**

**Standard RJ-45 Ethernet connectors or more rugged circular Ethernet connectors**

Loaded with HAIFE IS Compliant Suite B and packaged in a low SWaP rugged form factor, this network encryptor is ideal for high-risk and unmanned environments. With an optional remote front panel, aircraft operators can interface with the IPS-250X via cable, providing control access even if the stowed crypto is not physically within reach.

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



## IPS-250X At-a-Glance

### Compact, Rugged, Non-CCI Protection

- › Weight: 3.0 lb max
- › MIL-STD-810G rugged
- › Secret and Below InfoSec without the COMSEC logistics
- › Interoperable with CCI HAIFE devices operating in Suite B
- › Secure connectivity for high-risk operations such as UAVs, unattended sites, and sensors
- › Leave-behind capable

### HAIFE IS/FI Suite B Operation

- › Device generated shared key (DGSK); alternative to EKMS
- › SHA-256/384 Hashing , AES-256 (GCM Mode)
- › HAIFE IS v4.1 compliant with IKEv2/ECDH
- › HAIFE to HAIFE over the air/net keying
- › SECAN approved and NATO NINE interoperable

### Enhanced Networking Capabilities

- › Multicast video on demand
- › Embedded TCP/IP accelerator (xPeP)
- › Browser-based HMI configurations
- › Centralized INE management; VINE Manager™ software provided at no extra cost

### Premium Support

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

# Viasat IPS-250X

## SPECIFICATIONS

### NETWORKING FEATURES AND PROTOCOLS

<b>Protocols Supported</b>	TCP, UDP, IPv4/IPv6 Dual Stack, ICMP, IGMP, ARP, DHCP
<b>Networking Features</b>	Dynamic IP addressing, dynamic key management, red address confidentiality with dynamic peer discovery
<b>Management</b>	SNMPv3 and HTTPS browser-based management, VINE Manager software
<b>Multicast</b>	IGMP on red and black subnet
<b>Quality of Service (QoS)</b>	Type of service octet bypass
<b>Fragmentation</b>	Supports fragmentation and header options for red IP packets
<b>Flexible Interfaces</b>	Ethernet interface, adapter provides for RJ-45 copper; fiber optic, wireless, and other interfaces supported

### NETWORK INTERFACES

<b>Plaintext Data Interface</b> —Ethernet Interface Adapter	
<b>Electrical/Mechanical</b>	IEEE 802.3; 10/100 Mbps copper, RJ-45
<b>Ciphertext Data Interface</b> —Ethernet Interface Adapter	
<b>Electrical/Mechanical</b>	IEEE 802.3; 10/100 Mbps copper, RJ-45



IPX-250X Rear View

### CRYPTO CHARACTERISTICS

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

### PHYSICAL CHARACTERISTICS

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

### RELIABILITY AND MAINTENANCE

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

### ENVIRONMENT

<b>Operating Temperature</b>	-40° to +60°C
<b>Non-operating Temperature</b>	-40° to +71°C
<b>Solar Radiation</b>	MIL-STD-810G, Method 505.5
<b>Humidity</b>	To 95% MIL-STD-810G, Method 507.5
<b>Altitude</b>	50,000 ft operational; 70,000 ft storage; MIL-STD-810G, Method 500.5
<b>Explosive Atmosphere</b>	MIL-STD-810G, Method 511.5
<b>Rapid Decompression</b>	MIL-STD-810G, Method 511.5
<b>Vibration</b>	MIL-STD-810G, Method 514.6, Category 20 and 24 MIL-STD-167 Type 1
<b>Shock</b>	MIL-STD-810G, Method 516.6; MIL-STD-901D Grade A Class II, Type C
<b>EMI/EMC</b>	MIL-STD-461E
<b>Rain</b>	Blowing rain MIL-STD-810G, Method 506.5
<b>Sand/Dust</b>	MIL-STD-810G, Method 510.5
<b>Fungus</b>	MIL-STD-810G, Method 508.5
<b>Salt Fog</b>	MIL-STD-810G, Method 509.5

### ORDERING INFORMATION

<b>IPS-250X</b>	P/N 1190477 NSN 5810-01-654-6415
<b>Rack Mount (holds three IPS-250Xs)</b>	P/N 1276459
<b>Universal Rack Mount</b>	P/N 1276459

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#### Inside Sales

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