Share mission-critical information securely over satellite links with the all-in-one convenience offered by the AltaSec KG-250 IP encryptor with embedded xPEP. Boosted by built-in TCP/IP acceleration, this HAIPE Type 1 Inline Network Encryptor (INE) delivers faster, more dependable secure networking over high-latency IP connections.

With the KG-250’s embedded TCP/IP accelerator, you can supercharge your secure satellite connection to improve throughput by up to eight times faster than a typical TCP connection. Because HAIPE encryption algorithms inhibit TCP acceleration techniques employed by Satcom modems and VSAT equipment, secure satellite networks rely on ViaSat’s eXtreme Performance Enhancing Proxy (xPEP) technology to overcome latency issues. Injected with xPEP, the KG-250 revs up secure satellite connections without needing extra devices and peripherals in the network.

When enabled, the KG-250 with embedded xPEP provides TCP/IP acceleration for reliable end-to-end communications without requiring any changes to end-user equipment. The device ensures better performance over latent links, so you can successfully run web applications, send emails, and transfer files over your secure satellite connection without adding another device.

Armed with two modes of TCP acceleration, xPEP automatically detects your network configuration, and dynamically switches to the optimal TCP acceleration technique for your network. If another KG-250-with-xPEP or ViaSat Compact xPEP external accelerator is detected, XL mode is used for maximum throughput. If xPEP technology is not detected on the other end of the connection, embedded xPEP provides one-way acceleration.

Keep deployment and operation simple over your secure satellite network with the all-in-one convenience of the KG-250 with embedded xPEP. This TCP/IP accelerator is available via an optional software download for currently deployed KG-250s.
Embedded xPEP for KG-250

TWO MODES FOR AUTOMATIC TCP ACCELERATION OVER ANY NETWORK

The KG-250 is the only crypto with embedded TCP/IP acceleration for satellite and high-latency connections. Injected with xPEP acceleration technology, the KG-250 automatically detects your network configuration and dynamically chooses between two-way XL and one-way acceleration to maximize data throughput.

xPEP improves file transfer times by up to eight times faster than typical TCP satellite connections.

One-way acceleration if there is no TCP accelerator at the other end

xPEP IN THE TACTICAL ENVIRONMENT

HUB SITE

KG-250

COMPACT xPEP

REMOTE/WARFIGHTER
AN/PSQ-14 BGAN terminal with Integrated Crypto and Embedded xPEP

REMOTE/MOBILE SITE
KG-250 with Embedded xPEP

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