Supercharge your network to use every available packet over your secure satellite connection with the Compact xPEP from Viasat. Because HAIPE® encryption algorithms foil the ordinary 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. When placed in a satellite network alongside a HAIPE Inline Network Encryptor (INE), the Compact xPEP provides TCP/IP acceleration for reliable end-to-end communications without requiring any changes to end-user equipment or software. The device ensures faster, more dependable performance over high-lagacy links, so you can successfully run web applications, send email, and transfer files over your secure satellite connection.

Armed with three modes of TCP acceleration, the Compact xPEP is the only acceleration device that automatically detects your network configuration, and dynamically switches to the optimal TCP acceleration technique for your network. When connecting to another vendor’s TCP accelerator, xPEP uses the Space Communication Protocol Standard–Transport Protocol (SCPS-TP) to optimize the connection. If another Compact xPEP is detected on the network, XL mode is used for maximum throughput. When no TCP accelerator is detected on the other end of the connection, the device provides one-way acceleration. The Compact xPEP can be paired with any HAIPE INE to boost throughput over the secure satellite connection.

Just 7.5 inches wide and weighing about five pounds, the Compact xPEP packs powerful TCP acceleration technology in a low-SWaP form factor. At 1U high, the device can be teamed with Viasat’s KG-250 INE in a dual rack-mount installation for efficient network configuration.

The device also supports multicast traffic and VLANs (Virtual Local Area Networks). Multicast packets are bridged to provide seamless multicast traffic without any changes to your network. The Compact xPEP can terminate VLAN trunking without an additional VLAN device. The unit also accelerates TCP packets that are encapsulated using GRE tunnels, providing seamless networking regardless of your network configuration.

Ensure faster, more dependable networking over secure satellite connections. The Compact xPEP is the only TCP/IP accelerator with SCPS-TP, XL, and one-way acceleration that maximizes your overall throughput performance over high-latency bandwidth-limited satellite networks.
SCPS-TP: Two-way acceleration with another SCPS-compliant TCP accelerator

HAIPE Device
Satellite Modem
SCPS-Compliant Device

Red Hosts

Red Servers

Compact xPEP
HAPE Device
Satellite Modem
SCPS-Compliant Device

Three modes for maximum TCP acceleration over any network

The Compact xPEP is the only TCP/IP accelerator that automatically detects your network configuration and dynamically chooses between SCPS-TP, XL, and one-way acceleration to maximize data throughput.

XL: Viasat’s two-way acceleration for superior performance in noisy, high-loss networks

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

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