Certes Enforcement Point (CEP) Appliance

The CEP500 is an adaptable, scalable, and powerful encryption appliance ideal for data center interconnect, backup and recovery, and similar applications.

PRODUCT OVERVIEW

The CEP500 encryption appliance provides data protection and application segmentation. The CEPs integrate easily into any existing network, whether Legacy networks, 3rd party networks or multiple sites in different locations – we have got you covered.

The CEPs are interoperable with our key management software, CryptoFlow® Net Creator, and are easy to install, scalable for any size infrastructure, and simple to manage. With dedicated CEP appliances, customers experience high encryption throughput without impacting performance.

Scalable and Secure Group Encryption
The CEP500 uses scalable group encryption to provide encrypted, authenticated, low-latency, any-to-any connectivity. Group encryption reduces deployment complexity. It provides fully meshed encryption that is easy to manage. Group encryption is compatible with highly available network designs and QoS and network monitoring tools.

Ethernet Frame Encryption
The CEP500 is compatible with Layer 2 unicast, multicast, point-to-point, and multipoint-to-multipoint topologies. The CEP also authenticates all Ethernet frames, preventing man-in-the-middle attacks.

IP Packet Encryption
The CEP500 provides full data encryption for Layer 3 IP networks using standard IPSEC packet format while preserving the original IP header. The CEP500 also uses Certes’ patented Layer 4 encryption to protect the IP packet payload while preserving the original IP header and original TCP/UDP headers. This unique capability maintains network transparency, while providing strong data protection. By preserving the original header and encrypting only the payload, the CEP500 protects your data over any IP network. This includes any multi-carrier, load-balanced, or high availability network, and allows network services, such as Netflow/Jflow, and Class of Service (CoS) based traffic shaping, to be maintained throughout the network.

Central Policy Management
CryptoFlow® Net Creator (CFNC) is a centralized key management system that organizes and streamlines operations while providing you with full control of your security posture. With a user-friendly GUI and drag-and-drop tool, you have the ability to define and deploy policies with ease from one central point of control.

CERTES NETWORKS PROVABLE SECURITY™
Visual proof that your security strategy is effective
CEP500
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PERFORMANCE
- Up to 10 Gbps *

* Dependent on packet size of 512 or larger

ENCRIPTION ALGORITHMS
- AES-GCM-256
- AES-CBC-256

MESSAGE AUTHENTICATION & INTEGRITY ALGORITHMS
- HMAC-SHA2-256
- HMAC-SHA2-512

ENVIRONMENTAL
- Operating Temperature: 50F to 95F / 10C to 35C
- Storage Temperature: -40F to 149F / -40C to 65C
- Humidity: 10% to 80% (operation)
- Humidity: 5% to 95% (storage)
- Thermal: 1357.1 BTU/hr
- Input: 100-230VAC 50-60Hz
- Output: NA
- Power: 750W  
- Cooling: Active

ENCLOSURE
- Dual power supplies
- Rack mountable (2U)
- Dimensions: 29.8in x 3.4in x 19in (756.92mm x 86.36mm x 482.6mm)
- Weight: 45.86lbs (20.8kg)

REGULATORY
- EU WEEE
- EU RoHS-5
- UL 60950-1
- FCC part 15 subpart B class A
- FCC part 15 subpart B class B

PORTS
- 2 x VGA
- 3 x USB
- 4 x RJ45
- DB-9

ACTIVE INTERFACES
- 4 x 10Gbps
- Remote/Local/Management 1 unused

NETWORK SUPPORT
- Ethernet
- VLAN tag preservation
- MPLS tag preservation
- IPv4
- Secure NTP

IN THE BOX
- CEP500
- Rails
- Bezel

To learn more visit CertesNetworks.com

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