



CEP520



Certes Enforcement Point (CEP) Appliance

The CEP520 is a versatile and efficient 1U encryption appliance with dual power supplies, perfect for remote office and distributed enterprise-networking applications with redundancy requirements.

PRODUCT OVERVIEW

The CEP520 is a multi-layer encryption appliance that provides data protection and application segmentation. The CEP520 integrates easily into any existing network. It operates transparently to the network infrastructure. This ensures all data is encrypted without impacting network performance.

Scalable and Secure Group Encryption

The CEP520 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 CEP520 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 CEP520 provides full data encryption for Layer 3 IP networks using standard IPSEC packet format while preserving the original IP header. The CEP520 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 CEP520 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) software manages your CEP520. Creator allows your administrators to quickly and easily manage security from a central interface. Creator possesses simple yet powerful drag-and-drop policy creation capabilities. Encryption policies use IP addresses, port numbers, protocol IDs, or VLAN tags to identify traffic. You can quickly and easily change policies of any size in seconds. CFNC also provides full logging and audit capabilities.

Certifications

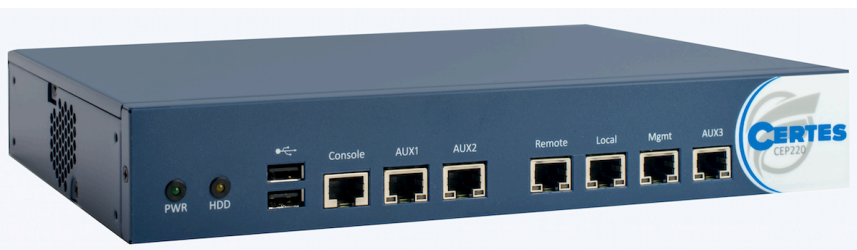
CFNC has been awarded FIPS certificate #3411 and the CEP appliance is FIPS 140-2 validated (certificate #3347). Also, a Common Criteria certificate has been issued for CFNC v5.3 Software with CEP220, CEP250, CEP300, CEP420, and CEP520 running CEP v5.3 Firmware. *The product complies with the requirements of the standard ISO/IEC 15408 (Common Criteria) v. 3.1 for the assurance level: EAL4+ (ALC_FLR.3).*

FEATURES AND BENEFITS

- Interoperable with CryptoFlow[®] Net Creator (CFNC) software
- Encrypted throughput up to 10 Gbps
- Seamless scalability
- Infrastructure neutral
- Transparent to network and applications
- Easy installation and management
- Per-frame/packet authentication
- FIPS and Common Criteria certified when utilizing version 5.3 software.

COMPREHENSIVE DATA PROTECTION

- IPsec site-to-site networks
- MPLS meshed networks
- Metro Ethernet and VPLS networks
- Voice and video over IP applications
- Internet and SDN links



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DATASHEET

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PERFORMANCE

- Up to 10 Gbps *
- * Dependent on packet size of 512 or larger

ENCRYPTION ALGORITHMS

- AES-GCM-256 (AES Cert. # 5338**)
- AES-CBC-256 (AES Cert. # 5338**)

MESSAGE AUTHENTICATION & INTEGRITY ALGORITHMS

- HMAC-SHA2-256 (HMAC Cert. # 3535**)
- HMAC-SHA2-512 (HMAC Cert. # 3535**)

ENVIRONMENTAL

- Operating Temperature: 32 to 104° F (0 to 40° C)
- Storage Temperature: -4° F to 167° F / -20° C to 80° C
- Humidity: 95% @ 40° C (non-condensing)
- Input: 100-240VAC 50-60Hz, full range, (DC) -40 – 72V, 12 – 24A
- Output: NA
- Power: 650W - redundant
- Cooling: Active – 3x system FAN with smart FAN

ACTIVE INTERFACES

- 2 x 10/100/1000
- Remote/Local/Management

ENCLOSURE

- Rack mountable (1U)
- Dimensions: 17.24" x 1.7" x 24.6" (438 x 44 x 625 mm)
- Weight: 33.07 lbs (15.0 kg)
- Shipping Dimensions: 24" x 11" x 36" (609.6 mm x 279.4 mm x 914.4 mm)
- Shipping Weight: 48.92 lbs. (22.19 kg)

REGULATORY

- EU WEEE
- EU RoHS-5
- UL
- FCC
- CE
- CB
- FIPS 140-2, (Cert. #3347)**
- CC EAL4+ (ALC_FLR.3)**

PORTS

- 1 x RJ45 console
- 2 x RJ45 management
- 2 x USB
- HDMI
- 2 x SPF+ Ports

IN THE BOX

- CEP520

** If a user needs a FIPS or CC Certified version of this product, they must utilize version 5.3 software

To learn more visit CertesNetworks.com

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