FEATURES AND BENEFITS

- Interoperable with CryptoFlow ® Net Creator (CFNC) software
- Encrypted throughput up to 20 Mbps
- Network agnostic integrating easily into any network infrastructure
- Visibility of data in transit
- 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

CEP220

Certes Enforcement Point (CEP) Appliance

The CEP220 is an economical entry-level desktop network appliance.

PRODUCT OVERVIEW

The CEP220 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 CEP220 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 CEP220 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 CEP220 provides full data encryption for Layer 3 IP networks using standard IPSEC packet format while preserving the original IP header. The CEP220 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 CEP220 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.

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).*

CERTES NETWORKS PROVABLE SECURITY ™
Visual proof that your security strategy is effective

CEP220

Certes Enforcement Point (CEP) Appliance

PERFORMANCE
- Up to 20 Mbps *

  * Dependent on packet size of 512 or larger

PLATFORM
- C2358 Intel ATOM
- 1.7 GHz
- 2-core

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: 32F to 104F / 0C to 40C
- Humidity: 5% to 85% (operation)
- Humidity: 5% to 95% (storage)
- Input: 100-240VAC 50-60Hz
- Output: NA
- Power: 84W

COOLING: ACTIVE PORTS
- 6 x 10/100/1000 - RJ45
- 2 x USB
- 3 unused

ENCLOSURE
- Desktop
- Dimensions: 11.03in x 1.73in x 6.92in (280mm x 44mm x 176mm)
- Weight: 3.3lbs (1.5kg)
- Rack mountable

REGULATORY
- CE
- RoHS
- UL (File E180881-A519-UL, Model FWA-1320)
- FCC part 15 subpart B, class A
- FIPS 140-2, (Cert. #3347)**
- CC EAL4+ (ALC_FLR.3)**

ACTIVE INTERFACES
- RJ-45 Serial Console
- Remote/Local/Management 3 unused

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

IN THE BOX
- CEP220
- Power Supply
- Console Cable (RJ-45 to DB9)

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

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To learn more visit CertesNetworks.com

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