



# CEP411



## Certes Enforcement Point (CEP) Appliance

The CEP411 is a versatile and efficient 1U encryption appliance with dual power supplies, perfect for remote office and distributed enterprise-networking applications with redundancy requirements.

### FEATURES AND BENEFITS

- Interoperable with CryptoFlow® Net Creator (CFNC) software
- Encrypted throughput up to 1 Gbps
- Network agnostic integrating easily into any network infrastructure
- Visibility of data in transit
- Easy installation and management
- Per-frame/packet authentication

### 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

### PRODUCT OVERVIEW

The CEP411 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 CEP411 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 CEP411 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 CEP411 provides full data encryption for Layer 3 IP networks using standard IPSEC packet format while preserving the original IP header. The CEP411 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 CEP411 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*

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### PERFORMANCE

- Up to 1 Gbps \*
- \* Dependent on packet size of 512 or larger

### ENCRYPTION 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: 1340.0 BTU/hr
- Input: 100-240VAC 50-60Hz
- Output: NA
- Power: 350W
- Cooling: Active

### ACTIVE INTERFACES

- 4 x 10/100/1000
- Remote/Local/Management 1 Unused

### PORTS

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

### ENCLOSURE

- Dual power supplies
- Rack mountable (1U)
- Dimensions: 23.5in x 1.67in x 17.09in (596mm x 42.8mm x 434.0mm)
- Weight: 29.98lbs (13.6kg)
- Shipping Dimensions: 36in x 11in x 24in (914.4mm x 279.4mm x 609.6mm)
- Shipping Weight: 45 lbs. (20.41kg)

### REGULATORY

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

### NETWORK SUPPORT

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

### IN THE BOX

- CEP411
- Rails
- Bezel



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