Certes Enforcement Point (CEP) Appliance

The CEP200 is a small form factor enforcer for SCADA/Smart Grid, ATM machine, or kiosk applications where environmental conditions are a concern.

PRODUCT OVERVIEW
The CEP200 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 CEP200 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 CEP200 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 CEP200 provides full data encryption for Layer 3 IP networks using standard IPSEC packet format while preserving the original IP header. The CEP200 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 CEP200 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.
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PERFORMANCE
- Up to 20 Mbps *
  * 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: -4F to 158F (-20C to 70C)
- Humidity: 10% to 90% (operation)
- Humidity: 5% to 95% (storage)
- Input: 100-240VAC 50-60Hz
- Output: 12VDC 3A
- Power: 10.5W
- Cooling: Passive fanless design

ENCLOSURE
- Dimensions: 4.25in x 0.94in x 3.27in (108mm x 24mm x 83 mm)
- Weight: 0.99lbs. (0.45kg)
- Shipping Dimensions: 7.25in x 1.75in x 6.25in (184.2mm x 44.5mm x 158.75mm)
- Shipping Weight: 2 lbs. (.9kg)
- Not rack mountable

REGULATORY
- CE
- FCC
- EMC
- Safety
- MTTF: >100,000 hours *
  * 1 year for consumable (SSD, HDD, RAM)

ACTIVE INTERFACES
- 4 x 10/100/1000
- Remote/Local/Management 1 unused

PORTS
- 1 mini serial console port
- 2 x HDMI
- 4 x RJ45

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

IN THE BOX
- CEP200
- Power Supply
- NA and EU plug
- HDMI to DVI adapter
- Mini-serial to DB9 adapter

To learn more visit CertesNetworks.com

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