

Certes Networks CEP1000 Custom Packet Processor Sample



Product Overview

The Custom Packet Processing Engine CEP1000 Custom Packet Processor (CPP) Sample is a flexible programmable hardware platform that provides deep packet processing. The CEP1000 CPP Sample provides Ethernet frame processing for Layer 2 Ethernet networks, IP packet processing for Layer 3 networks and Layer 4 data payload processing for IP and MPLS networks. The CEP1000 CPP processor does not include any radio data transmission device. This product is not a radio-electronic device. The CEP1000 CPP is designed to use in wired networks only.

The CEP1000 CPP offers full duplex line rate deep packet processing at 140 Mbps. The device has flexible programmable hardware that offers a wide range of opportunities to build on its base of advanced networking solutions. It enables the processing of traffic based on configurable user policies, such as:

- Source or destination IP address
- Source or destination port number
- Multicast address
- VLAN ID (L2 option)
- Protocol ID (L3 and L4 options)

Technical Specifications

Description:

The Custom Packet Processor CEP1000 includes the following:

- 2 US Power Cord
- 2 European Power Cord
- 1 6 Ft. Shielded Category 5 Straight Through Cable with RJ-45 connector
- 1 6 Ft. shielded DB-9 null modem cable (female to male)
- 1 Rack Mounting kit includes 2 mounting brackets, 4 large screws (#10-32), and 8 small black screws

Throughput

- 140 Mbps (full duplex)

Network Support

- Ethernet
- VLAN tag preservation
- MPLS tag preservation
- IPv4
- IPv6
- NTP

Policy Selector Options

- Source or destination IP address
- Source or destination port number
- Protocol ID (L3 and L4 options)
- VLAN ID (L2 option)
- Multicast address

Regulatory

- Safety: UL 60950-1
- FCC part 15 subpart B class B

The Custom Packet Processing Engine CEP1000-CPP-SAMPLE is a flexible programmable hardware platform. With an appropriate software load, the CEP CPP Sample can provide Ethernet frame processing for Layer 2 Ethernet networks, IP packet processing for Layer 3 networks and Layer 4 data payload processing for IP and MPLS networks.

The CEP1000-CPP-SAMPLE is a hardware platform and it does not contain any software. As shipped, the product does not have the capability to perform encryption, decryption, or any other cryptographic operations. The capability of the product is determined by the software, and the end user can and must load software into the hardware platform in order to make it functional. Software can be purchased separately from Certes Networks that could enable the encryption functionality.

Environmental

- Operating temperature: 0° to 40° C (32° to 104° F)
- EU WEEE
- EU RoHS-5

Indicators

- Power
- Alarm
- LED Status

Interfaces

- Data: Two full-duplex Gigabit Ethernet ports with SFP interfaces (single mode, multimode or copper)
- Management: One 10/100 RJ45 Ethernet and one RS232 serial port
- Management SFP port and Aux1 SFP port are for future use

Physical

- 1U tamper evident chassis
- Dimensions 1.75”H x 17”W x 10”D
- Rack mountable in standard 19” rack
- Power: Dual A/C hot swappable 100V@3.A - 240V@1.5A, 47-63Hz, auto- sensing
- Thermal: In-rush 380 BTU/hr, Steady-state 140 BTU/hr
- Nominal input current: 0.65A@110V
- Weight: 9 lbs
- MTBF: 158,520 hours

Model

- CEP1000-CPP-SAMPLE