

Certes Networks CEP10 Custom Packet Processor Sample



Product Overview

The Custom Packet Processing Engine CEP10 Custom Packet Processor (CPP) Sample is a flexible programmable hardware platform that provides deep packet processing. The CEP10 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 CEP10 CPP processor does not include any radio data transmission device. This product is not a radio-electronic device. The CEP10 CPP is designed to use in wired networks only.

The CEP10 CPP offers full duplex line rate deep packet processing at 10 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 CEP10 includes the following:

- 1 US Power Cord
- 1 European Power Cord
- 1 6 Ft. Shielded CAT5 Cable Assembly
- 1 6 Ft. Unshielded Null Modem Cable
- 1 Power supply unit
- 1 Rack Mounting Kit (2 mounting brackets, 4 large screws (#10-32), 4 small black screws, 4 rubber feet, 4small silver-toned screws with built-in washers)

Throughput

- 10 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
- Emissions: FCC part 15 subpart B class A

The Custom Packet Processing Engine CEP10-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 CEP10-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 10/100/1000 RJ45 Ethernet ports
- Management: One 10/100 RJ45 Ethernet and one RS232 serial port
- Aux1 RJ45 port is for future use

Physical

- 1U tamper evident chassis
- Dimensions: 1.6”H x 8.0”W x 5.8”D
- Rack mountable in standard 19” rack or desktop option
- External Power Adapter: 100-240V A/C @ 1.5A, 50/60Hz,
- Power: 12VDC, the device doesn't have a built-in power supply unit.
- Thermal: In-rush 102 BTU/hr, Steady-state 102 BTU/hr
- Nominal input current: 0.25A
- Weight: 3 lbs as rackmount; 1 lb., 5 oz. as desktop
- MTBF: 388,999 hours

Model

- CEP10-CPP-SAMPLE