

NPC-100G2

Netcope Technologies Packet Capture Solution

100G Ethernet
& PCI Express Gen 3

Product Brief

OVERVIEW

NPC-100G2 is a packet capture solution with two CFP4 or QSFP28 network interfaces. PCI Express Gen 3 x16 host interface allows to transfer the traffic to SW with sustainable throughput of 100Gbps.

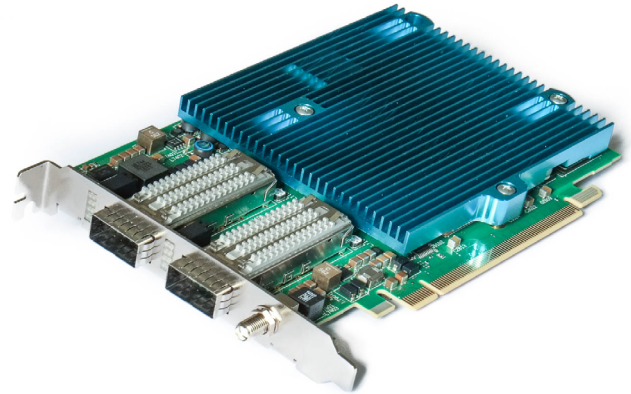
NPC firmware provides features for traffic processing at wire-speed. It is possible to preprocess the traffic before forwarding it to SW using hardware filters and intelligent traffic distribution over multiple CPU cores. FPGA technology offers flexibility and possibility of firmware upgrades.

FEATURES

- ▶ Wire-speed traffic processing
- ▶ Traffic classification based on L3 & L4 header fields
 - ▶ IPv4/IPv6 addresses and prefixes
 - ▶ L4 protocol (TCP/UDP) & TCP/UDP ports
- ▶ Supplementary filter: VLAN tag, MPLS label, TCP flags, ICMP type & code, IP fragmentation, packet length
- ▶ Traffic processing based on classification
 - ▶ Traffic filtering and cropping
 - ▶ Forwarding to an output port
 - ▶ Intelligent distribution over multiple CPU cores (flow-aware, based on hashing packet header fields)
- ▶ Traffic sampling
- ▶ Precise hardware timestamping
- ▶ RMON statistics on each interface
- ▶ Field upgradable

APPLICATIONS

- ▶ Platform for OEM vendors
- ▶ High-density solutions
- ▶ Packet capture solutions
- ▶ Traffic recording
- ▶ Flow monitoring
- ▶ Lawful interception
- ▶ Data retention



SPECIFICATION

- ▶ 2x CFP4 / QSFP28 network interfaces
 - ▶ Each interface supports 1x100G / 1x40G / 4x10G
 - ▶ 100GBASE-SR4* / LR4 / ER4
 - ▶ 40GBASE-SR4 / IR4 / LR4, 10GBASE-SR / LR
- ▶ PCI Express Gen 3 x16 host interface
 - ▶ Aggregate throughput 100Gbps to SW
- ▶ PCI Express form factor
 - ▶ Full height (126mm)
 - ▶ Half length (180mm)
- ▶ Weight 470g
- ▶ PPS (pulse per second) synchronization input

* Please contact Netcope Technologies for details.

SOFTWARE INTERFACES

- ▶ Command-line tools and drivers for Linux OS
- ▶ C API for configuration and high-speed data transfers
- ▶ Intel DPDK, PCAP, and Linux network interfaces
- ▶ Support of NetFlow/IPFIX export

ORDERING INFORMATION

Please contact Netcope Technologies for pricing and additional information about this product.