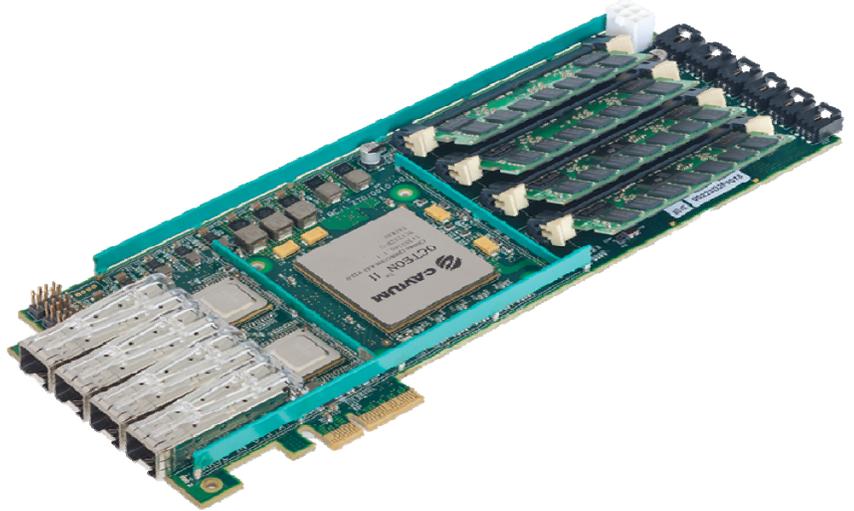


▶ O2E-100

PCI Express Cavium OCTEON II CN68XX Packet Processor Card

▶ SUMMARY

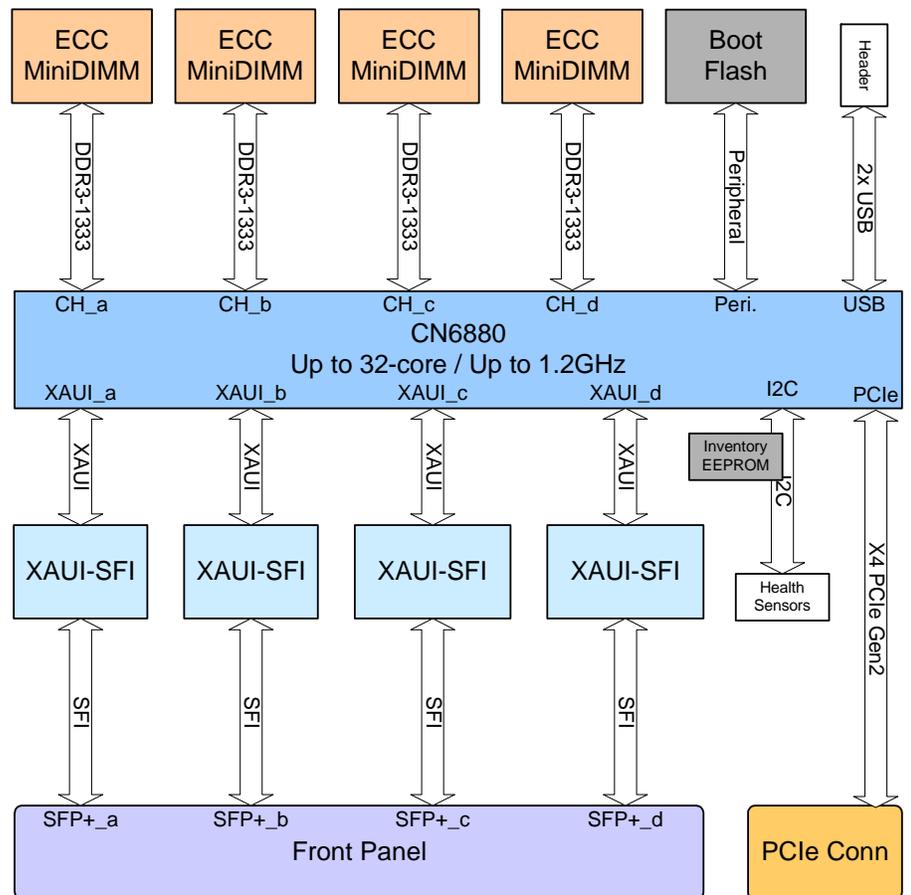
The PARPRO O2E-100 Accelerator Card is a high-performance network processor PCI Express card designed for use in PCI Express compliant systems. It features the latest Cavium CN68XX Network Processor with up to 1.2GHz clock rate. The O2E-100 features up to 64GB of quad-channel 72-bit wide DDR3 ECC memory running at 1333MT/s. Four SFP/SFP+ interfaces are provided on the front panel, supporting 1GigE or 10GigE. Multiple selections of CPU speed and core count allow for configurations to support a wide variety of thermal and power limitations. Refer to the block diagram on back for detail.



▶ APPLICATIONS

- Packet Processing
- Deep Packet Inspection
- High Frequency Trading
- Load Balancing

▶ BLOCK DIAGRAM

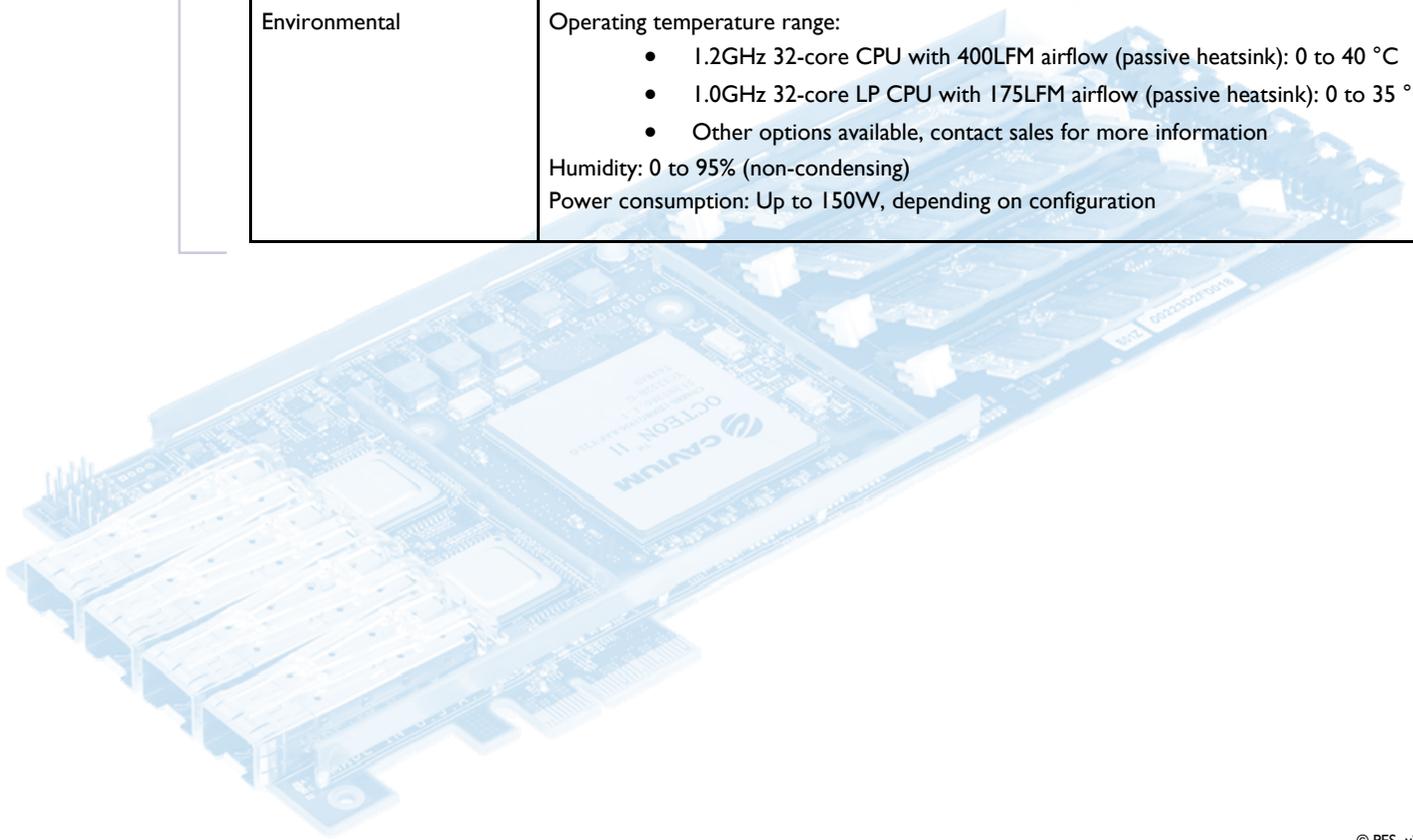


O2E-100

FEATURES



Network Processing Units (NPUs)	Cavium Networks OCTEON II CN68XX <ul style="list-style-type: none">• Single processor with clock rate of up to 1.2GHz• Up to 32 cnMIPS64 v2 processor cores and multiple accelerator engines• Up to 32-way SMP Linux and Cavium Simple Executive
Memory	Up to 64GB of DDR3 memory w/ ECC on quad-channel x72 bus DDR3 clock rate of 1333MT/s
I/O Capabilities	Four front panel SFP/SFP+ sites <ul style="list-style-type: none">• Supports 10/100/1000 (SGMII bypass) or 10GigE PCI Express Gen2 x4 to base board 3-pin locking headers for debug UARTs Local I2C devices <ul style="list-style-type: none">• Temperature Sensor• Inventory EEPROM
Mechanical	Standard dual-slot PCI Express card form factor <ul style="list-style-type: none">• 3/4 length full height (10.80" long, plus connectors)• 6-pin aux power connector• Active or Passive heatsink options
Environmental	Operating temperature range: <ul style="list-style-type: none">• 1.2GHz 32-core CPU with 400LFM airflow (passive heatsink): 0 to 40 °C• 1.0GHz 32-core LP CPU with 175LFM airflow (passive heatsink): 0 to 35 °C• Other options available, contact sales for more information Humidity: 0 to 95% (non-condensing) Power consumption: Up to 150W, depending on configuration



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