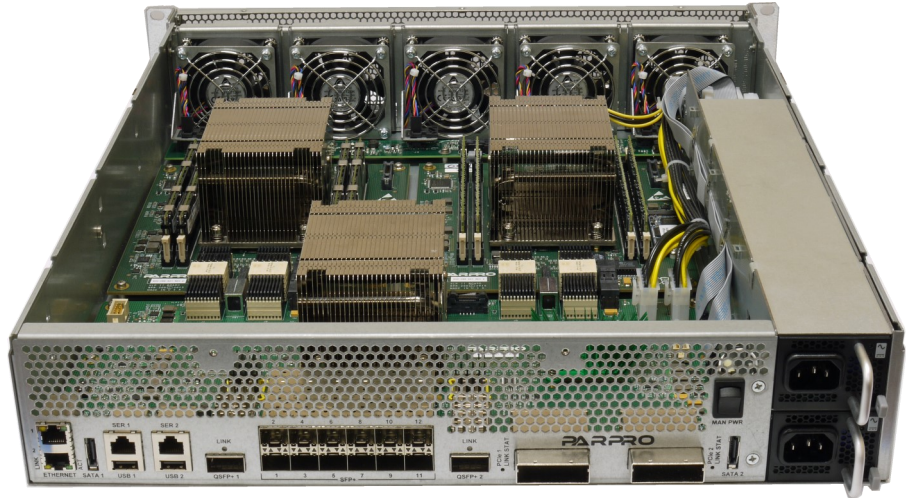


## RPR-200

Dual Broadcom XLP II & Trident II+ Switch Appliance \*

### SUMMARY

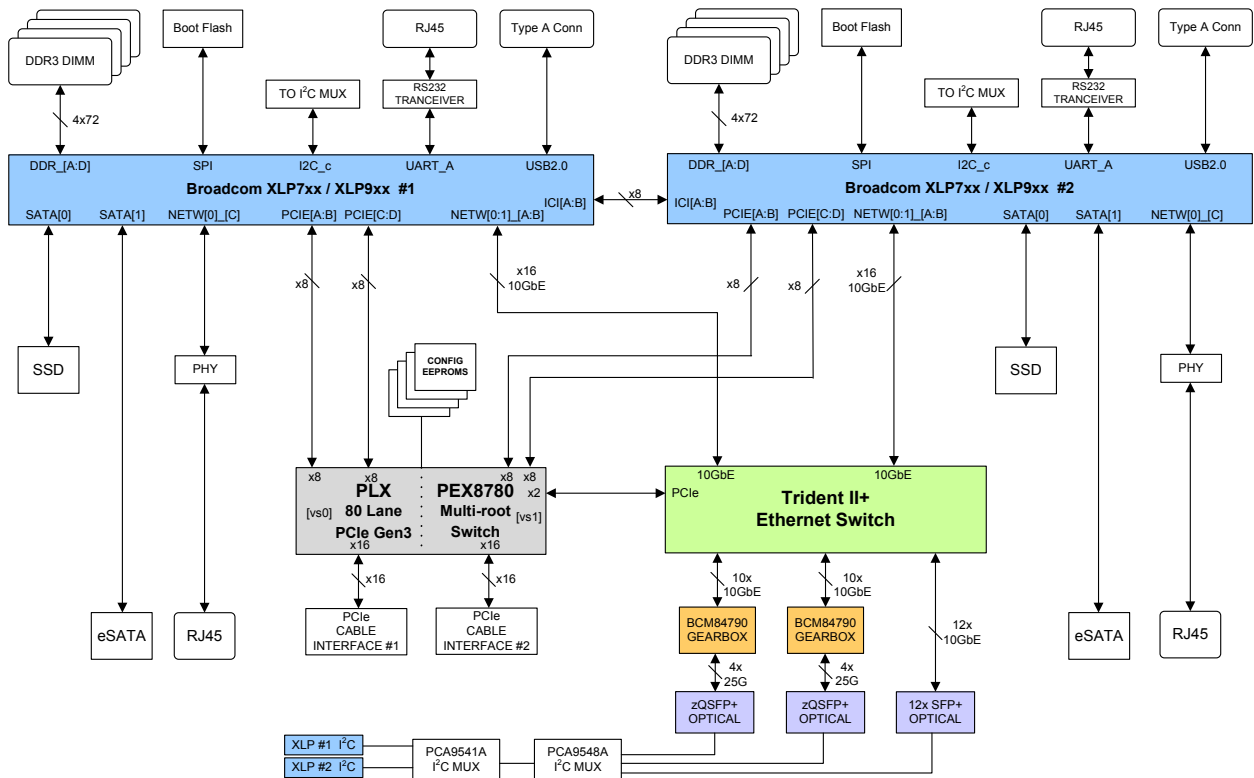
The PARPRO Embedded Systems' RPR-200 is a high-performance 2U PCI Express expansion system designed for use with one or two PCI Express compliant host computers. It features dual Broadcom XLP9xx/7xx Network Processors and a Trident II+ Ethernet switch. Each XLP features 128GB of quad-channel 72-bit wide DDR3 ECC memory running up to 2133MT/s. Two zQSFP+ 100Gig and 12 SFI interfaces are provided on the front panel, supporting 100GigE, 40GigE or 10GigE. Refer to the block diagram for details.



### KEY FEATURES

- ◆ Dual XLP980 NPUs
- ◆ Broadcom Trident II+ Ethernet switch
- ◆ Supports 40GigE or 100GigE transceivers
- ◆ Twelve SFP+ 10GigE ports

### BLOCK DIAGRAM





# RPR-200

Dual Broadcom XLP II & Trident II+ Switch Appliance

▶ SPECIFICATIONS



|                               |  |
|-------------------------------|--|
| Network Processing Unit (NPU) | Broadcom XLP 900 or 700 series processors <ul style="list-style-type: none"> <li>• Single processor with clock rate of 1.8GHz</li> <li>• Up to 20 cores and 80 nxCPU Virtual CPUs</li> </ul>   |
| Server Processor              | <ul style="list-style-type: none"> <li>• Up to 128GB of DDR3 memory w/ ECC on quad-channel x72 bus</li> <li>• DDR3 clock rate up to 2133MT/s</li> <li>• Up to 64GB soldered down SSD</li> </ul>  |
| Ethernet Switch               | Broadcom Trident II+ BCM56860 Ethernet switch <ul style="list-style-type: none"> <li>• Managed through PCIe port from the PEX8780 PCIe switch</li> <li>• (2) BCM84790 Gearbox provide 100GigE support</li> <li>• Supports VXLAN and NVGRE tunnel termination</li> </ul>  |
| PCIe Switch                   | PCI Express Gen3 x16 cable links to each (2) host CPU complex <ul style="list-style-type: none"> <li>• PCIe switch auto configuration based upon how many PCIe cables are attached during initialization. <ul style="list-style-type: none"> <li>• PCIe x16 cables 1 meter max. length</li> <li>• Valid configurations for 1 (either cable), 2, or none.</li> <li>• When no cables are attached, one XLP becomes the root complex</li> </ul> </li> </ul> |
| I/O Capabilities              | Two front panel zQSFP+ ports <ul style="list-style-type: none"> <li>• Supports 40GigE or 100GigE transceivers</li> <li>• GigE management ports for each XLP</li> </ul> Twelve SFP+ 10GigE ports<br>USB 2.0 Type A host connector for each NPU<br>Broadcom ICI coherent Processor interconnect (XLP900 series only)<br>Rear panel power entry   |
| Mechanical                    | 19-inch rack mountable in 2U height and 20 inch depth <ul style="list-style-type: none"> <li>• Front-to-back cooling</li> </ul>  |
| Environmental                 | Operating temperature range: 0 to 35 °C<br>Humidity: 0 to 95% (non-condensing)<br>Power consumption: TBD   |

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