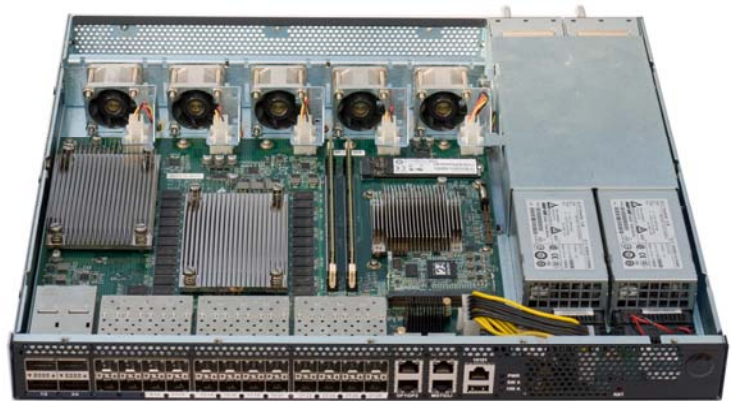# PARPRO

N5R-100
EZchip NP-5 Packet Inspection Appliance

SUMMARY

The N5R-100 is a high-performance 1U network appliance that fits into the standard 19-inch wide rack enclosure.

Features the EZchip NP-5 processors with the Intel Core i7-4700EQ server processor, the N5R-100 offers multi-gigabit I/Os on the front panel.
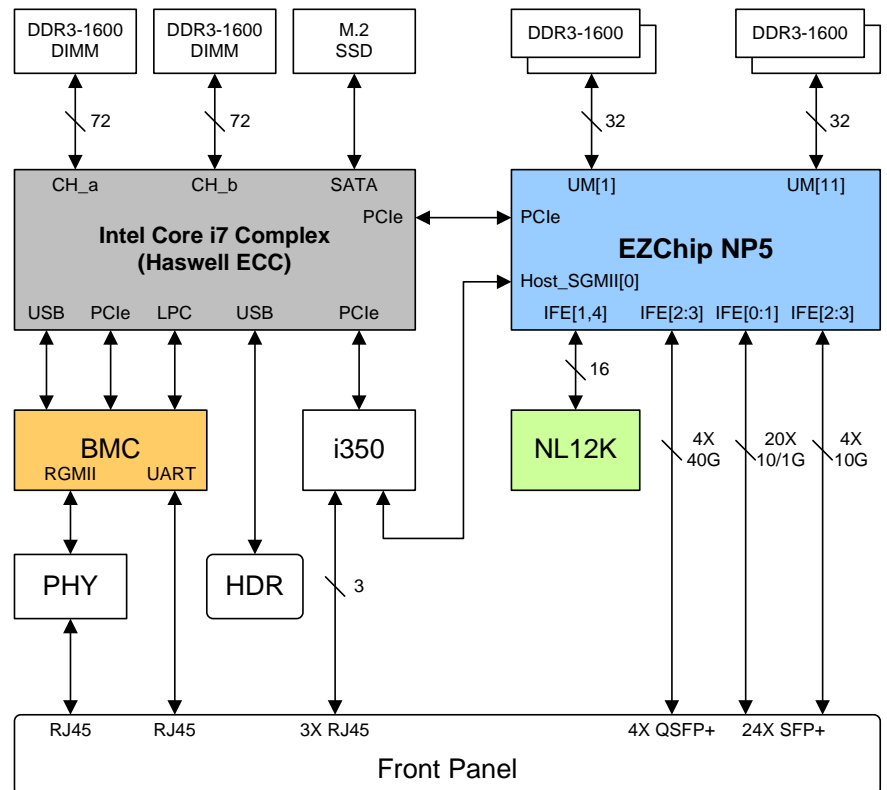
Optional: PARPRO can license a middleware library package suitable for implementing SDN applications, packet filtering, load balancing, or other network applications.

KEY FEATURES

- EZchip NP-5 NPU
- Intel Core i7-4700EQ 2.4GHz Quad Core CPU
- Four 40GE QSFP+ ports
- Baseboard Management Controller

BLOCK DIAGRAM

SPECIFICATIONS

Network Processing Unit (NPU)	EZchip NP-5 network processor complex features: • 240Gbps traffic manager with up to 480Gbps peak processing data path and CoS classification • 12GB Unified DDR3-1600 external memory • 100G/40G/10G/1G configurable SerDes • Broadcom NL12K TCAM on x16 Interlaken-LA interface
Server Processor	Intel Core i7-4700EQ processor • Quad core 2.4GHz • 16GB dual channel x72 DDR3-1600 ECC memory • 32GB M.2 SATA SSD
Chassis Management	Equipped with standard board management controller (BMC) Interfaces: • 10/100/1000M Ethernet port on front panel for remote access • RJ45 serial console port on front panel Functions: • Remote power and reset control, • Remote KVM capability • Platform temperature, fan, and power supply monitoring
Front Panel I/O	EZchip NP-5 network processor: • 20x SFP+ cages for 10GE, 1G, 100M and 10M connectivity • 4x SFP+ cages for 10GE connectivity • 4x 40GE QSFP+ cages Intel Core i7-4700EQ server processor: • 3x 10/100/1000BaseT RJ45 Ethernet • EIA-232 serial console (to BMC mux) • USB Type-A host interface Baseboard management controller: • 10/100/1000BaseT RJ45 Ethernet for remote access • RJ45 serial console port
Mechanical	• EIA/TIA standard 19" rack mount in 1U high and ~16" deep • Rack Slides and Mid mount options supported • Dual Redundant 90~264VAC/40~72VDC Power supplies • Field serviceable and reversible cooling
Environmental	• Operating temperature range: 0 to 40 °C • Humidity: 0 to 95% (non-condensing) • Typical power consumption: ~350W
Regulatory	Designed and manufactured to meet the following requirements: • FCC Class A • CE • IEC 60950 Company will get certifications as required to meet specific customer requirements.

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