

PRYSM[®]
HP-R200
SERVER
DATA SHEET

HIGH PERFORMANCE COMPUTE SOLUTION WITH SMALLER FOOTPRINT

Optimize Compute Density with Smaller Footprint

In order to meet the demands of high performance computing with high compute density you need high-density server family that delivers breakthrough performance with efficient rack-scale compute, storage, networking, power and cooling for your most demanding HPC, massive data analytics and object storage workloads. PRYSM[®] HP-R200 combines a modular design with innovative power distribution and liquid-cooling techniques to provide more performance per square foot than standard rack servers. PRYSM[®] HP-R200 high-density servers, can be ideal for use in hyper-converged, data analytics, storage, cloud and high performance computing.

Massive Compute Solution

Designed for high performance and density in a small form factor (SFF) board and optimized for memory performance, this server is a 2U, four node system featuring easy serviceability and high availability with hot swappable compute modules and redundant power supplies. It brings excellent I/O flexibility via support Expansion Modules and an onboard dedicated management port. The board supports Intel[®] Xeon[®] processor Scalable Family – Skylake(Gold/Platinum) which is ideal for environments where highly demanding distributed processing and intensive application workloads rely on maximum compute density and performance.

AT A GLANCE

- Intel[®] Xeon[®] processor Scalable
 - Family – Skylake- SP
 - Total 16 DIMM slots
- Hot-swappable compute modules, storage and power supplies
- x 16 PCIe slot for additional network options
- Dual 10GbE Integrated LAN ports and 1GbE dedicated management port per board

BUILT FOR

- High performance computing workloads
- Scale up high Performance Storage
- Cloud Infrastructure with compute intense requirements



Technical Specifications

FEATURES	PARAMETER	DESCRIPTION
Processor	Supported CPU Series	Intel® Xeon® Scalable Processor - Skylake - SP Series (Gold/Platinum)
	Thermal Design Power (TDP) wattage	Up to 165 W TDP
	Socket Type/Q'ty	Two Socket/Node - P LGA3647/(2)
	System Bus	Up to 10.4/9.6 GT/s with Intel Ultra Path Interconnect (UPI) support
Nodes	Nodes per Enclosure	1-4
Chipset	PCH	Intel® C621 Chipset
	Spec	Intel® Quick Assist Technology
BMC	ASIC	AST2500A1-GP [ASPEED TECHNOLOGY INC.]
Memory	Max DIMM slots	16 DIMMs Total – 2-1-1 configuration
	Memory Type	DDR4 RDIMMs or LRDIMMs
	Memory Capacity	Up to 1.5TB for Gold/Platinum CPUs. 768GB for Silver/Bronze CPUs
	Memory Speed	2666 ¹ MT/s @ 1 DPC and 2 DPC, DPC = DIMMs per channel
	Memory Voltage	1.2V, DDR4 Standard I/O voltage
Expansion Slot (per NODE)	Ethernet	(2) 10GBase-T ports; (1) PHY dedicated for IPMI
	PCIe 3.0	Riser 1 - x16;Riser 2 - x24 ;Riser 3 - x24 ;Riser 4 - x16
	Rear and Front IO	Rear: 2x LAN, 2x USB 3.0
	NVM DIMM	Up to 4, 1 per channel
	VGA	(1) D-Sub 15-pin port
Power Supply	Type	CRPSH2204 xx LRE
	Redundancy	1+1
	Input Range	Full range AC (100 - 240 VAC)
	Output Watts	2130 W
	Efficiency	80-Plus Platinum
Chassis	MODEL	[2U, 4 Node tray type]
	Form Factor	2U Rack Mountable
	Storage	12x3.5" SAS/SATA drive
	Dimensions	438mmx 86.9mmx 771mm 17.24" width x 3.42 height x 30.35" length
BIOS	BRAND	AMI/ uEFI based BIOS
	Feature	Hardware Monitor/SMBIOS 3.0/PnP/Wake on LAN/Boot from USB device/ PXE via LAN/Storage/User Configurable FAN PWM Duty cycle/Console Redirection/ACPI Sleeping rate
System Cooling	FAN	3 dual rotor 40x56 mm fixed fans per node
Operating Environment	Operating Temp	10° C ~ 35° C (50° F ~ 95° F)
	Non Operating Temp	-40 ° C ~ 70 ° C (-40° F ~ 158 ° F)
	In/Non-Operating Humidity	90% , non- condensing at 35- ° C
ROHS	RoHS 6/6 Complaint	Yes

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Quick Specs: www.prysmelectronics.com/servers

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