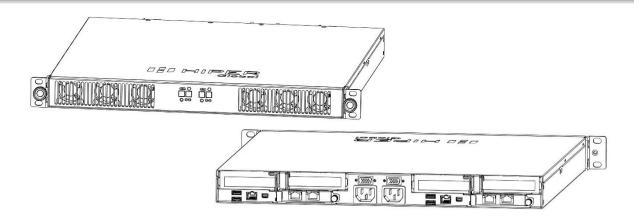


## HC1RS3SD-A1



## Features:

Two physically <u>isolated</u> nodes with separate power supplies in a 1RU form factor in only 19.5" depth

- 2x Half-width ASRock motherboards
- Supports 3rd Gen Intel® Xeon® Scalable Processors
- 8 DIMM slots, supports DDR4 RDIMM, LRDIMM,
   RDIMM/LRDIMM-3DS, and Intel® Optane™ Persistent Memory
- 2 low profile PCle4.0 x16
- 2 SlimSAS (PCle4.0 x8), 2 OCuLink (PCle3.0 x4 or 4 SATA 6Gb/s)
- Supports 2 M.2 (PCle3.0 x4 or SATA 6Gb/s)
- Up to 11 SATA 6Gb/s
- 1 OCP NIC 3.0 (PCle4.0 x16)
- Remote management (IPMI)

## **Suggested Markets:**

- ightarrow Data Diode / Network Separation
- → Military
- → High-Performance Computing
- → Digital Security/Surveillance

Specifications by node, 2x per 1RU Chassis		
Overall Chassis Dimensions		
Form Factor	1RU, contains two half-width motherboards	
Dimensions (HxWxD)	1.75"x17"x19.5"	
	Each motherboard supports the following (2x per chassis)	
Input/Output		
Motherboard	SPC621D8HM3	
CPU	Supports 3rd Gen Intel® Xeon® Scalable processors	
Socket	Single Socket P+ (LGA 4189)	
Chipset	Intel® C621A	
System Memory		
Supported DIMM Quantity	8 DIMM slots (1DPC)	
Supported Type	Supports DDR4 288-pin RDIMM, LRDIMM, RDIMM/LRDIMM-3DS, Intel® Optane™ Persistent Memory 200 series	
Max. Capacity per DIMM	RDIMM: up to 64GB RDIMM-3DS: up to 256GB LRDIMM: up to 128GB LRDIMM-3DS: up to 256GB	
Max. DIMM Frequency	max. 3200MHz	
Voltage	1.2V	
PCIe Expansion Slots (SLOT7 close to CPU)		
PCle x 16	PCIE1: high-density PCIe4.0 x16 PCIE2: high-density PCIe4.0 x16	



## HC1RS3SD-A1

Other PCIe Expansion Connectors		
M.2 slot	1 M-key* (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor	
	1 M-key (PCle3.0 x4 or SATA 6Gb/s), supports 2280 form factor	
	* SATA DOM will be disabled when M.2_1 populated with SATA device	
Storage Connections	2 SlimSAS (PCIe4.0 x8) & 2 OCuLink (Not used in this depth configuration)	
SATA/SAS Storage		
PCH Built-in Storage	Intel® C621A (11 SATA 6Gb/s; RAID 0/1/5/10):	
	2 OCuLink, 1 SATA 7-pin, 1 M.2, 1 M.2 or SATA DOM	
Ethernet		
OCP slot	1 OCP NIC 3.0 (PCle4.0 x16)	
Server Management		
BMC Controller	ASPEED AST2500	
IPMI Dedicated GLAN	1 x Realtek RTL8211E for dedicated management GLAN	
Graphics		
Controller	ASPEED AST2500	
VRAM	DDR4 16MB	
Rear I/O		
UID Button/LED	1	
Video Port	1 Mini DisplayPort (VGA)	
Video Port	1 HD15 Video Port (DB15)	
USB 3.2 Gen1 Port	2 Type-A (USB3.2 Gen1)	
Dedicate LAN	1 Dedicated IPMI	
Hardware Monitor		
Temperature	CPU, PCH, MB, Card Temperature Sensing	
Fan	CPU/Rear/Front Fan Tachometer	
	CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature)	
	CPU/Rear/Front Fan Multi-Speed Control	
Voltage	+12V, +5V, +3.3V, CPU Vcore, DRAM, 1.05V_PCH, +BAT, 3.3VSB, 5VSB	
Environment		
Temperature/Humidity	Operating Temp: 10°C - 35°C (32°F - 122°F) Non-Op Humidity: 20% - 90% (non-condensing)	
	Non-Op Temp: -40°C - 70°C (-40°F - 158°F)	

HIPER Global US is a global leader in providing application-specific computing solutions. We offer a full range of world-class hardware platforms, both off the shelf and custom built. Our value-add include design, turnkey manufacturing, logistics, and support which allow our customers to focus on their core competencies and meet product scheduling deadlines.