



Features:

Two physically **isolated** 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 PCIe4.0 x16
- 2 SlimSAS (PCIe4.0 x8), 2 OcuLink (PCIe3.0 x4 or 4 SATA 6Gb/s)
- Supports 2 M.2 (PCIe3.0 x4 or SATA 6Gb/s)
- Up to 11 SATA 6Gb/s
- 1 OCP NIC 3.0 (PCIe4.0 x16)
- Remote management (IPMI)

Suggested Markets:

- 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)	
PCIe x 16	PCIe1: high-density PCIe4.0 x16 PCIe2: high-density PCIe4.0 x16

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 (PCIe3.0 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 (PCIe4.0 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)

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