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SPC621D8-2L2T



- ATX (12" x 9.6")
- Supports 3rd Gen Intel[®] Xeon[®] Scalable Processors
- 8 DIMM slots (1DPC), supports DDR4 RDIMM, LRDIMM, RDIMM/LRDIMM-3DS, and Intel[®] Optane™ Persistent Memory
- 4 PCle4.0 x16, 3 PCle4.0 x8
- Supports 1 M.2 (PCle3.0 x4 or SATA 6Gb/s), 1 M.2 (PCle3.0 x1 or SATA 6Gb/s)
- 8 SATA 6Gb/s (including 2 ports from M.2)
- 2 RJ45 (10GbE) by Intel[®] X710-AT2
- 2 RJ45 (1GbE) by Intel[®] i210
- Remote management (IPMI)



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Specifications

Dimensions 1	ATX 12" x 9.6"
	12" x 9.6"
Dunnann Cuntam	
Processor System	
CPU	Supports 3 rd Gen Intel [®] Xeon [®] Scalable processors
Socket S	Single Socket P+ (LGA 4189)
Chipset Ir	intel® C621A
System Memory	
Supported DIMM Quantity 8	B DIMM slots (1DPC)
Supported Type S	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 _RDIMM: up to 128GB _RDIMM-3DS: up to 256GB
Max. DIMM Frequency 3	3200MHz
Voltage 1	1.2V
PCIe Expansion Slots (SLOT	T7 close to CPU)
S PCle x 16	SLOT7: PCle4.0 x16* SLOT5: PCle4.0 x16* SLOT3: PCle4.0 x16* SLOT3: PCle4.0 x16* SLOT1: PCle4.0 x16
	SLOT7/5/3 auto-switch to PCIe4.0 x8 when SLOT6/4/2 occupied
PCIe x 8	SLOT6: PCle4.0 x8 SLOT4: PCle4.0 x8 SLOT2: PCle4.0 x8
Other PCIe Expansion Connectors	
M.2 slot	1 M-key (PCle3.0 x4 or SATA 6Gb/s), supports 22110/2280/2242 form factor 1 M-key (PCle3.0 x1 or SATA 6Gb/s), supports 22110/2280/2242 form factor
SATA/SAS Storage	
PCH Built-in Storage	ntel [®] C621A (8 SATA 6Gb/s; RAID 0/1/5/10): 1 Mini-SAS HD, 2 SATA DOM, 2 M.2

Ethernet		
Additional GbE Controller	Intel® X710-AT2: 2 RJ45 (10 GbE)	
	Intel® i210: 2 RJ45 (1GbE)	
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	
VGA Port	1 DB15	
USB 3.2 Gen1 Port	4 Type-A (USB3.2 Gen1)	
RJ45	2 RJ45 (10GbE), 2 RJ45 (1GbE)	
Dedicate LAN	1 dedicated IPMI	
Internal Connector/Headers		
Power Connector	1 (24-pin, ATX main power), 1 (8-pin, ATX 12V), 1 (4-pin, ATX 12V), 1 (3-pin, SATA power)	
Auxiliary Panel Header	1 (18-pin): chassis intrusion, system fault LED, LAN1/LAN2 activity LED, locate, SMBus	
System Panel	1 (9-pin): power switch, reset switch, system power LED, HDD activity LED	
COM Header	1	
VGA header	1	
Speaker Header	1	
Buzzer	1	
Fan Header	5 (6-pin)	
Thermal Sensor Header	1	
TPM Header	1 (17-pin, LPC), 1 (13-pin, SPI)	
VROC header	1	
SGPIO Header	1	
SMBus header	1	
PMBus header		
IPMB Header	1	
Clear CMOS	1 (contact pads)	
ME/SPS Recovery		
USB 3.2 (Gen1) Header	1 (19-pin, 2 USB3.2 Gen1)	
USB 3.2 (Gen2) Header	2 (Type-C, 2 USB3.2 Gen2)	
USB 2.0 Header	1 (9-pin, 2 USB2.0)	
Type A USB 2.0 Port	1 (Type-A, 1 USB2.0)	
NMI Header		
NC-SI	1	
LED Indicators		
Standby PWR LED 5vsb	1	
80 Debug Port LED	1	
Fan Fail LED	5	
System BIOS		
BIOS Type	256Mb SPI Flash ROM	
BIOS Features	AMI UEFI BIOS	
Hardware Monitor		
Temperature	CPU, PCH, MB, Card side Temperature Sensing	
	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	
Supported OS		
os	Microsoft [®] Windows [®] :	
	Server 2016 (64 bit)	
	Server 2019 (64 bit)	

	Linux :
	Red Hat Enterprise Linux Server 7.9 (64 bit) / 8.3 (64 bit)
	CentOs 7.9 (64 bit) / 8.3 (64 bit)
	SUSE Enterprise Linux Server 12 SP5 (64 bit) / 15 SP2 (64 bit)
	Ubuntu 20.04.1 (64 bit) / 20.10 (64 bit)
	Hypervisor:
	VMWare [®] ESXi 6.7 U3 / vSphere 6.7 U3
	VMWare [®] ESXi 7.0.U1c / vSphere 7.0.U1c
	Hyper-V Windows® Server 2016
	Hyper-V Windows® Server 2019
Environment	
Temperature	Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C
Humidity	Non operation humidity: 20% ~ 90% (Non condensing)

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