



Apogean Dual Socket Intel Xeon Scalable 2nd & 1st Gen Workstation / Tower Server ID4T-S2-A / ID8T-S2-A

Key Features

- Dual Socket Intel Xeon Scalable 2nd & 1st Gen Processor
- 16 DIMM slots w/DDR4-2933/2666/2400 memory support
- 4 PCIe Gen. 3 x16 + 2 PCIe Gen.3 x8 slots
- 2 PCIe x8 SlimSAS connectors (NVMe)
- 1 NVMe 2280 M.2 slot
- 4 RJ45 1G LAN by Marvell 88E1543
- 1 x RJ45 Dedicated IPMI LAN port

Specifications

Physical Status

Form Factor	Tower (Optional – Convertible to Rackmount 4U)
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Processor System

CPU	Supports 2nd Gen. Intel® Xeon® Scalable Processors / Intel® Xeon® Scalable Processors
Socket	Dual Socket P
Chipset	Intel C621

System Memory

Supported DIMM Qty	16 DIMM slots
Supported Type	Quad Channel memory technology Support DDR4 2933/2666/2400/2133 RDIMM/ LR DIMM, Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)
Max. Capacity per DIMM	RDIMM: 32GB, 16GB, 8GB, 4GB LRDIMM: 64GB, 32GB
voltage	1.2V

PCIe Expansion Slots (SLOT7 close to CPU)

PCIe x 16	SLOT4: PCIe3.0 x16 [CPU0] SLOT3: PCIe3.0 x16 [CPU1] SLOT2: PCIe3.0 x16 [CPU1] SLOT1: PCIe3.0 x16 [CPU1]
PCIe x 8	SLOT6: PCIe3.0 x8 [CPU0] SLOT5: PCIe3.0 x8 [CPU0]
M.2	NVMe: 1 x M.2 slot

Other PCIe Expansion Connectors

M.2 slot	1(M key 2230/224/22260/2280, supports PCIe(x4)/SATA)
OCuLink	3 (Slimline x8 from CPU1, OCuLink x4 from CPU1)

SATA/SAS Storage

Drive Slots	4 / 8 x 3.5"/2.5" Internal (Optional - Hot Swap) Drive Slots
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Ethernet

Interface	Gigabit LAN 1000 Mb/s
Additional GbE Controller	4 x RJ45 GLAN by Marvell 88E1543 1 x RJ45 Dedicated IPMI LAN port Supports Wake-On-LAN Supports Energy Efficient Ethernet 802.3az Supports Dual LAN with Teaming function Supports PXE LAN1 Supports NCSI

Server Management

BMC Controller	ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0 with Ikmv Media support
IPMI Dedicated	1 x Realtek RTL8211E for dedicated management GLAN
Features	Watch Dog, NMI

Graphics

Controller	ASPEED AST2500
VRAM	DDR4 16MB

Rear I/O

UID Button/LED	1 UID w/ LED
VGA Port	1 x D-Sub
Serial Port	1 x COM port
USB 3.2 Gen1 Port	4 Type-A (USB3.2 Gen1)
RJ45	4 RJ45 (1GbE)
Dedicate LAN	1 dedicated IPMI

System BIOS

BIOS Type	128Mb AMI UEFI Legal BIOS
BIOS Features	Plug and Play (PnP) ACPI 2.0 Compliance Wake Up Events SMBIOS 2.8 Support Instant Flash

Hardware Monitor

Temperature	CPU Temperature Sensing System 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	Voltage Monitoring: +12V, +5V, +3.3V, CPU Vcore, DRAM, 1.05V_PCH, +BAT, 3VSB, 5VSB

Supported OS

OS	Microsoft® Windows: Server 2012 R2, Server 2016, Server 2019, Server 2022. Linux: RedHat Enterprise Linux Server 6.8 (64 bit) / 7.4 (64 bit) CentOS 6.8 (64 bit) / 7.4 (64 bit) SUSE Enterprise Linux Server 11 SP4 (64 bit) / 12 SP3 (64 bit) Ubuntu 16.04 (64 bit) / 18.04 (64 bit) FreeBSD 11.1 (64 bit) Virtual: VMWare® ESXi 6.5 u1 Win hyper-V Server 2012 R2
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Environment and Power Supply

Temperature	Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C
Humidity	Non operation humidity: 20% ~ 90% (Non condensing)
Power Supply	Single / Redundant : 500W, 800W, 1200W, 1600W, 2000W