

Apogean Tower Server/Workstation with Single 5th and 4th Gen Intel® Xeon® Scalable Processors

IS4T-S4-A / IS8T-S4-A



Key Features

- Supports Single 5th and 4th Gen Intel® Xeon® Scalable Processors
- 8 DIMM slots (1DPC), supports DDR5 RDIMM/ RDIMM-3DS
- 4 PCIe5.0 / CXL1.1 x16 Slots
- 1 MCIO (PCIe3.0 x4 or 4 SATA 6Gb/s), 2 MCIO (PCIe5.0 x8)
- 2 M.2 slots (PCIe3.0 x4 or SATA 6Gb/s)
- 2 RJ45 (10GbE) by Broadcom BCM57416
- 2 RJ45 (1GbE) by Intel® i210
- Remote Management (IPMI)
- Tower (Convertible to Rack - Optional)

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Items pictured may only be representative.



Specifications:

• Physical Status

Form Factor Tower (Convertible to Rack - Optional)

• Processor System

CPU Supports 5th and 4th Gen Intel® Xeon® Scalable Processors
 Socket Single Socket E (LGA 4677)
 Power 350W
 Chipset Intel® C741

• Memory

Supported DIMM Qty 8 DIMM slots (1DPC)
 Supported Type 288-pin DDR5 RDIMM/ RDIMM-3DS
 Max. Capacity per RDIMM: 96GB
 DIMM RDIMM-3DS: 2H- 128 GB / 4H- 256 GB
 Max. DIMM 5600 MT/s on 5th Gen Intel® Xeon® Scalable Processors
 Frequency 4800 MT/s on 4th Gen Intel® Xeon® Scalable Processors
 *Memory speed and capacity support varies by CPU SKU
 Memory voltage 1.1V

• PCIe Expansion Slots (SLOT7 close to CPU)

PCIe x16 SLOT7: PCIe5.0 / CXL1.1 x16 [CPU]
 SLOT5: PCIe5.0 / CXL1.1 x16 [CPU]
 SLOT3: PCIe5.0 / CXL1.1 x16 [CPU]
 SLOT1: PCIe5.0 / CXL1.1 x16 [CPU]

• Other PCIe Expansion Connectors

M.2 slot (1 M-key M2_1 (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280/2242 form factor [PCH]
 1 M-key M2_2 (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [PCH]
 Others 2 MCIO (PCIe5.0 x8) [CPU]
 1 MCIO (PCIe3.0 x4 or SATA 6Gb/s) [PCH]

• SATA/SAS/NVMe Storage

Drive Slots 4/8 x 3.5/2.5" Internal Drive Slots (Optional – External Hot Swap)

• Ethernet

Additional GbE 2 RJ45 (10GbE) by Broadcom BCM57416
 Controller 2 RJ45 (1GbE) by Intel® i210

• Server Management

BMC Controller ASPEED AST2600: IPMI2.0 with iKVM and vMedia support
 IPMI Dedicated 1 RJ45 Dedicated IPMI LAN port by
 GLAN Realtek RTL8211F

• Graphics

Controller ASPEED AST2600: 1 DB15 (VGA)

• Rear I/O

UID Button/LED 1 UID button w/ LED
 Video Port 1 x DB15 (VGA)
 USB 3.2 Gen1 Port 2 Type-A (USB3.2 Gen1)
 RJ45 2 RJ45(10GbE), 2 RJ45(1GbE), 1 dedicated IPMI

• Internal Connector/Headers

Power Connector 1 Micro-Fit (4-pin, ATX PSU signal), 3 (8-pin, ATX 12V)
 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 (9-pin)
 Speaker Header 1 (4-pin)
 Fan Header 6 (6-pin)
 Thermal Sensor Header 1
 TPM Header 1 (13-pin, SPI)
 VROC header 1
 SGPIO Header 2
 HSBP 1
 SMBus header 1
 PMBus header 1
 IPMB Header 1
 Clear CMOS 1 (contact pads)
 Front Lan LED 1
 Connector
 USB 3.2 (Gen1) Header 1 (19-pin, 2 USB3.2 Gen1)
 USB 2.0 Header 1 (9-pin, 2 USB2.0)
 NMI Header 1

• LED Indicators

Standby PWR LED ASPEED AST2600: IPMI2.0 with iKVM and vMedia support
 80 Debug Port LED
 Fan Fail LED 1 RJ45 Dedicated IPMI LAN port by
 BMC heartbeat Realtek RTL8211F
 LED

• System BIOS

BIOS Type AMI 256Mb SPI Flash ROM
 BIOS Features Plug and Play (PnP)
 ACPI 4.0 Compliance Wake Up Events
 SMBIOS 3.4 and above
 Instant Flash

• Hardware Monitor

Temperature CCPU, MB, Card side, TRI Temperature sensing
 CPU/Rear/Front Fan Tachometer
 Fan Fan Tachometer
 CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature)
 Fan Multi-Speed Control
 Voltage CPU1_PVCCIN, 1.05V_PCH, 1.8V_PCH, +BAT, PVNN_PCH, 3.3V, 5V, 12V, 3.3VSB, 5VSB, +12V, +12VSB
 Power Supply Single/Dual : 500W, 800W, 1200W, 1600W, 2000W, 2400W, 2700W

• 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)

