SPC741D8UD-2T/X550

- Deep Micro-ATX (10.4" x 10.5")
- Supports 5th and 4th Gen Intel® Xeon® Scalable processors
- 8 DIMM slots (1DPC), supports DDR5 RDIMM/ RDIMM-3DS
- 4 PCIe5.0 / CXL1.1 x16
- 2 MCIO (PCIE5.0 x8)
- Supports 1 M.2 (PCIe3.0 x4 or SATA 6Gb/s)
- Up to 9 SATA 6Gb/s
- 2 RJ45 (10GbE) by Intel X550-AT2
- Supports ATX PSU or 12V DC-in
- Remote management (IPMI)

Specifications

Physical Status	
Form Factor	Deep Micro-ATX
Dimensions	10.4" x 10.5" (264.16 x 266.7 mm)
Processor System	
CPU	Supports 5th and 4th Gen Intel® Xeon® Scalable processors
Socket	Single Socket E (LGA 4677)

Thermal Design Power	350W
Chipset	Intel® C741

System Memory

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

PCIe Expansion Slots (SLOT7 close to CPU)

PCIe x 16	SLOT7: PCIe5.0 / CXL1.1 x16 [CPU] SLOT6: PCIe5.0 / CXL1.1 x16 [CPU] SLOT5: PCIe5.0 / CXL1.1 x16 [CPU] SLOT4: PCIe5.0 / CXL1.1 x16 [CPU]

Other PCIe Expansion Connectors

M.2 slot	1 M-key (PCIe3.0 x4 or SATA 6Gb/s); support 2280 form factor [PCH]
Others	2 MCIO (PCIE5.0 x8) [CPU]

SATA/SAS Storage

PCH Built-in Storage	Intel® C741 (9 SATA 6Gb/s, support RAID 0/1/5/10): 1 Mini-SAS HD 8i for 8 SATA, 1 M.2

Ethernet

Additional GbE Controller	2 RJ45 (10GbE) by Intel® X550-AT2

Server Management

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

Graphics

Controller	ASPEED AST2600:
	1 DB15 (VGA)

Rear I/O

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

Internal Connector/Headers

Power Connector	1 Mirco-Fit (4-pin, ATX PSU signal) w/ ATX 24-pin adapter cable, 3 (8-pin, ATX 12V) support 12V DC-in
Other Power Connectors	1 Mirco-Fit (6-pin) for HDD power when using 12V DC-in power source
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
HSBP	1
SMBus header	2
PMBus header	1
IPMB Header	1
Clear CMOS	1 (contact pads)
Type A USB 2.0 Port	1 header (9-pin, 2 USB2.0)
NMI Header	1

LED Indicators

Standby PWR LED 5vsb	1
80 Debug Port LED	1
Fan Fail LED	6

BMC heartbeat LED	1
System BIOS	
BIOS Type	AMI UEFI BIOS; 512Mb SPI Flash ROM
BIOS Features	Plug and Play (PnP), ACPI 4.0 and above compliance wake up events, SMBIOS 3.4 and above, ASRock Rack Instant Flash
Hardware Monitor	
Temperature	CPU, PCH, MB, Card side Temperature Sensing
Fan	Fan Tachometer CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature) Fan Multi-Speed Control
Voltage	1.05V_PCH, 1.8V_PCH, +BAT, PVNN_PCH, 3.3V, 5V, 12V, 3.3VSB, 5VSB, 12V, +12VSB
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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