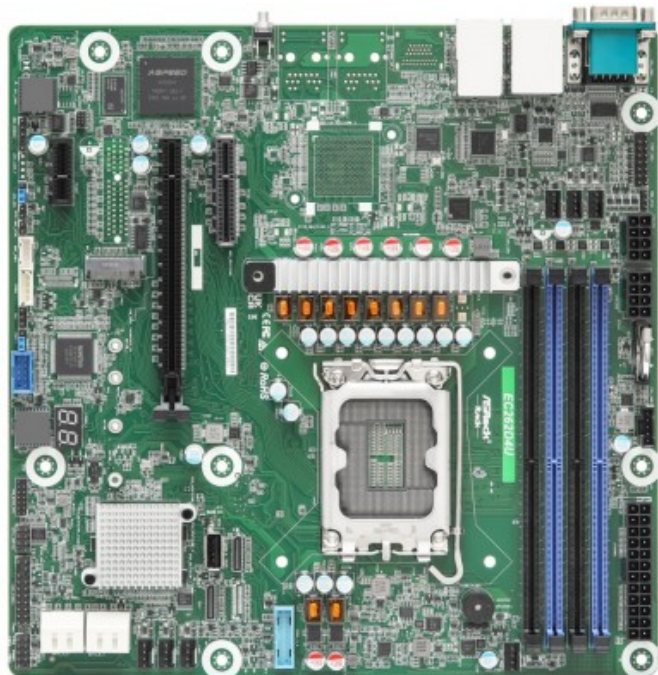


ASRock EC262D4U, 1xSKT LGA 1700, Intel E-2400, C262, SATA, NVMe, 1xM.2, 2x10GbE, 2xGbE, IPMI

Part number: EC262D4U



Category	Server
Form Factor	Micro-ATX
Dimensions	9.6" x 9.6"
CPU Socket	LGA 1700 (Socket V0)
# of CPU sockets	1
Supported CPU's	Intel Xeon E-2400 Intel Pentium Gold G7400 Intel Pentium Gold G7400T
Max CPU TDP	95 W
Chipset	Intel C262
Memory Type	DDR5 ECC UDIMM
Memory Speed	4400 MT/s 4000 MT/s 3600 MT/s
# of DIMM's	4
Max Memory Size	128 GB
Integrated GPU	ASPEED AST2600
# of PCIe x16 5.0	1
# of PCIe x4 4.0	1
# of USB Ports	2 x USB 3.2(rear) 2 x USB 3.2 (header) 1 x USB 2.0
# of SATA Ports	1
# of NVMe ports	1
Integrated RAID	0,1,5,10
# of M.2 2280	1
# of 1GbE Ports	2 x RJ45
Network Controllers	Intel i210
Integrated BMC	IPMI Dedicated RJ45
BMC chip	ASPEED AST2600
TPM	1 x TPM 2.0 14-pin Header

EC262D4U

- Micro-ATX (9.6" x 9.6")
- Supports Intel Xeon E-2400 series and Intel® Pentium® Gold G7400/G7400T processors
- 4 DIMM slots (2DPC), supports DDR5 ECC UDIMM
- 1 PCIe5.0 x16, 1 PCIe4.0 x4, 1 PCIe4.0 x1
- 2 OCuLink

- Supports 1 M.2 (PCIe4.0 x4)
- Up to 8 SATA 6Gb/s
- 2 RJ45 (1GbE) by Intel® i210
- Remote Management (IPMI)

Specifications

Physical Status

Form Factor	Micro-ATX
Dimensions	9.6" x 9.6" (244 mm x 244 mm)

Processor System

CPU	Supports Intel Xeon E-2400 series and Intel® Pentium® Gold G7400/G7400T processors
Socket	Single Socket V1 (LGA 1700)
Thermal Design Power	95W
Chipset	Intel® C262

System Memory

Supported DIMM Quantity	4 DIMM slots (2DPC)
Supported Type	Supports DDR5 288-pin ECC UDIMM
Max. Capacity per DIMM	32GB
Max. DIMM Frequency	4400MT/s (2SPC - 1DIMM) / 4000MT/s (2SPC - 2DIMM 1R) / 3600MT/s (2SPC - 2DIMM 2R)
Voltage	1.1V

PCIe Expansion Slots (SLOT7 close to CPU)

PCIe x 16	SLOT6: PCIe5.0 x16 [CPU]
PCIe x 4	SLOT7: PCIe4.0 x4* [CPU] *SLOT7 share lanes with OCuLink4. OCuLink4 will disable when SLOT7 is populated
PCIe x 1	SLOT4: PCIe4.0 x1 [PCH]

TPM

TPM support	1 (13-pin, SPI)
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Other PCIe Expansion Connectors

M.2 slot	1 M-key (PCIe4.0 x4); support 2280/2260/2242/2230 form factor [PCH]
OCuLink	1 OCuLink (PCIe4.0 x4)* [CPU] 1 OCuLink (PCIe4.0 x4 or 4 SATA 6Gb/s) [PCH] *OCuLink4 shares lanes with SLOT7 and will be disabled when SLOT7 is populated

SATA/SAS Storage

PCH Built-in Storage	Intel® C262 (8 SATA 6Gb/s; RAID 0/1/5/10): 4 SATA 7-pin, 1 OCuLink
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Ethernet

Additional GbE Controller	2 RJ45 (1GbE) by Intel® i210
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Server Management

BMC Controller	ASPEED AST2600: iKVM, vMedia support
IPMI Dedicated GLAN	1 RJ45 Dedicated IPMI LAN port by Realtek RTL8211F

Graphics

Controller	ASPEED AST2600: 1 DB15 (VGA)
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Rear I/O

UID Button/LED	1 UID button w/ LED
VGA Port	1 DB15 (VGA)
Serial Port	1 DB9 (COM)
USB 3.2 Gen1 Port	2 Type-A (USB3.2 Gen1)
RJ45	2 RJ45 (1GbE), 1 dedicated IPMI

Internal Connector/Headers

Power Connector	1 (24-pin, ATX main power), 2 (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
VGA header	1
Speaker Header	1 (4-pin)
Buzzer	1
Fan Header	7 (4-pin)
Thermal Sensor Header	1
TPM Header	1 (13-pin, SPI)
SGPIO Header	1
SMBus header	1
PMBus header	1
IPMB Header	1
Clear CMOS	1 (contact pads)
USB 3.2 (Gen1) Header	1 header (19-pin, 2 USB3.2 Gen1)

USB 2.0 Header	1 header (9-pin, 2 USB2.0)
Type A USB 2.0 Port	1 vertical Type-A (USB2.0)
NMI Header	1

LED Indicators

Standby PWR LED	1 (5VSB)
80 Debug Port LED	1
Fan Fail LED	7
BMC heartbeat LED	1

System BIOS

BIOS Type	AMI 256Mb SPI Flash ROM
BIOS Features	Plug and Play, ACPI 6.4 and above compliance wake up events, SMBIOS 2.8 and above, ASRock Rack Instant Flash

Hardware Monitor

Temperature	CPU, MB, Card side, VR, DDR5, PCH, M.2, TR1 Temperature sensing
Fan	Fan Tachometer CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature) Fan Multi-Speed Control
Voltage	3VSB, 5VSB, CPU_VCORE, VCCIN_AUX, VDD2, 1.05V_PCH, 0V82SB_PCH, 1V8SB, VCCSA, BAT, 3V, 5V, 12V

Supported OS

OS	<p>Microsoft® Windows:</p> <ul style="list-style-type: none"> - Windows® Server 2022 - Azure Stack HCI <p>Linux:</p> <ul style="list-style-type: none"> - RHEL 8.5 - SLES 15 SP3 - Ubuntu 21.04 LTS <p>Hypervisor:</p> <ul style="list-style-type: none"> - VMware ESXi 8.0 u1 - Linux KVM (Linux OSes) - Hyper-V (Windows® Server)
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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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