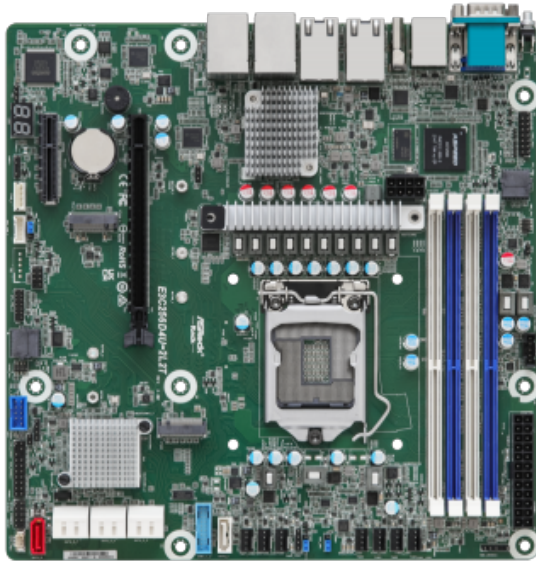


ASRock E3C256D4U-2L2T, 1xSKT LGA1200, Intel E-2300, C256, 4xDIMM, SATA, 2xM.2, 2xGbE, 2x10GbE, IPMI

Part number: E3C256D4U-2L2T



CPU Socket	LGA 1200 (Socket H5)
# of CPU's	1
Chipset	C256
# of 10GbE LAN Ports	2
# of 1GbE LAN Ports	2
Integrated BMC	IPMI

E3C256D4U-2L2T

- Micro-ATX (9.6" x 9.6")
- Supports Intel® Xeon® E-2300 and 10th Gen Intel® Pentium® series processors
- 4 DIMM slots (2DPC), supports DDR4 ECC/non-ECC UDIMM
- 1 PCIe4.0 x16, 1 PCIe4.0 x4, 1 PCIe3.0 x1
- Supports 1 M.2 (PCIe3.0 x4 or SATA 6Gb/s), 1 M.2 (PCIe3.0 x4)
- 8 SATA 6Gb/s
- 2 RJ45 (10GbE) by Intel® X710-AT2
- 2 RJ45 (1GbE) by Intel® i210
- VGA, HDMI
- Remote Management (IPMI)

Specifications

Physical Status

Form Factor Micro-ATX

Dimensions 9.6" x 9.6" (244 mm x244 mm)

Processor System

CPU Supports Intel® Xeon® E-2300 and 10th Gen Intel® Pentium® series processors

Socket Single Socket H5 (LGA1200)

Chipset Intel® C256

System Memory

Supported DIMM Quantity	4 DIMM slots (2DPC)
Supported Type	Supports DDR4 288-pin ECC/non-ECC UDIMM
Max. Capacity per DIMM	ECC/non-ECC UDIMM: up to 32GB
Max. DIMM Frequency	ECC/non-ECC UDIMM: max. 3200*MHz *Up to DDR4 2666MHz when installing 10th Gen Intel® Pentium® Series Processors
Voltage	1.2V

PCIe Expansion Slots (SLOT7 close to CPU)

PCIe x 16	SLOT6: PCIe4.0* x16 [CPU] *When installing 10th Gen Intel® Pentium® Series Processors, SLOT6 supports PCIe3.0 only and SLOT4 will not function
PCIe x 4	SLOT4: PCIe4.0* x4 [CPU]
PCIe x 1	SLOT7: PCIe3.0 x1 [PCH]

Other PCIe Expansion Connectors

M.2 slot	1 M-key* (PCIe3.0 x4 or SATA 6Gb/s); support 22110/2280/2260 form factor [PCH] 1 M-key (PCIe3.0 x4); support 2280/2260 form factor [PCH] *SATA0 will be disabled when M2_1 populated with SATA device
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SATA/SAS Storage

PCH Built-in Storage	Intel® C256 (8 SATA 6Gb/s; RAID 0/1/5/10): 7 SATA 7-pin, 1 SATA DOM or 1 M.2
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Ethernet

Additional GbE Controller	Intel® X710-AT2: 2 RJ45 (10GbE) Intel® i210: 2 RJ45 (1GbE)
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Server Management

BMC Controller	ASPEED AST2500
IPMI Dedicated GLAN	1 x Realtek RTL8211E for dedicated management GLAN

Graphics

Controller	ASPEED AST2500
VRAM	DDR4 256MB

Rear I/O

UID Button/LED	1 button w/ LED
VGA Port	1 DB15
Serial Port	1 DB9
USB 3.2 Gen1 Port	4 Type-A (USB3.2 Gen1)
RJ45	2 RJ45 (10GbE), 2 RJ45 (1GbE)
Dedicate LAN	1 dedicated IPMI LAN port
HDMI	1 HDMI

Internal Connector/Headers

Power Connector	1 (24-pin, ATX main power), 1 (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
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)
ME/SPS Recovery	1
Front Lan LED Connector	1
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 5vsb	1
80 Debug Port LED	1
Fan Fail LED	7
BMC heartbeat LED	1

System BIOS

BIOS Type	AMI UEFI BIOS; 256 Mb (32MB) SPI Flash ROM
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BIOS Features	Plug and Play, ACPI 6.2 compliance wake up events, SMBIOS 3.3, ASRock Rack instant flash
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Hardware Monitor

Temperature	CPU, MB, Card side, TR1
Fan	Fan Tachomete, CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature), Multi-Speed Control
Voltage	+12V, +5V, +3.3V, CPU Vcore, DRAM,V1.0M,+BAT, 3VSB, 5VSB

Supported OS

OS	Microsoft® Windows® : Server 2019 (64 bit) Server 2022 (64 bit)
	Linux : RedHat Enterprise Linux Server 8.6 (64 bit) / 8.3 (64 bit) CentOS 8.5 (64 bit) / 8.3 (64 bit) SUSE Enterprise Linux Server 15 SP3 (64 bit) / 15 SP2 (64 bit) Ubuntu 21.10 (64 bit)
	Hypervisor : VMWare® ESXi 7.0U3d

* Supports UEFI BOOT only

Environment

Temperature	Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C
Humidity	Non operation humidity: 20% ~ 90% (Non condensing)

The specification is subject to change without notice in advance. The brand and product names are trademarks of their respective companies. Any configuration other than original product specification is not guaranteed.

Visit us for more info:

<https://www.superstorage.pl/asrock-e3c256d4u-2l2t-1xskt-lga1200-intel-2300-c256-4xdimm-sata-2xm2-2xgbe-2x10gbe-ipmi-p-5776.html>