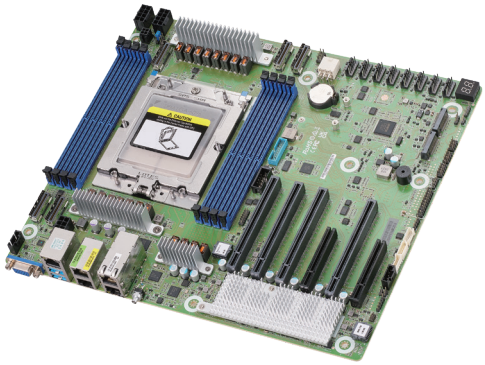
ADLINK
LEADING EDGE AI COMPUTING

ISB-TR10

CEB Form Factor Server Motherboard with AMD EPYC™ 9005/9004 CPU

Features

- CEB form factor 12” x 10.5” (305 x 267mm): Easy integration, space-efficient design
- Single Socket SP5 (LGA 6096), supports AMD EPYC™ 9005/9004 series processors
- 8x DIMM slots (1DPC), supports DDR5 RDIMM 6400 MT/s
- High flexibility of PCIe configurations: 4x PCIe5.0 x16, 2x PCIe5.0 x8, 1x MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s), 4x MCIO (PCIe5.0 x8)
- Supports 2x M.2 (PCIe5.0 x4 or SATA 6Gb/s)



Specifications

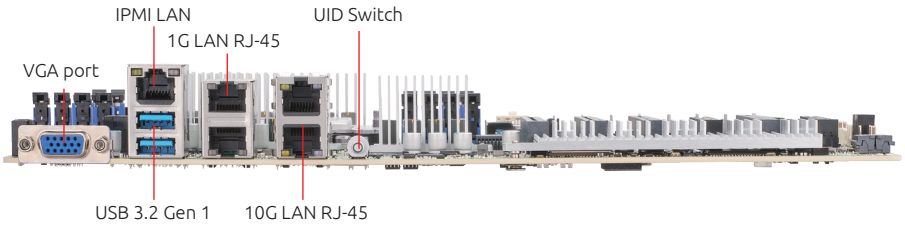
Form Factor	CEB	12" x 10.5" (305 x 267mm)
Processor System	CPU	1x SP5 (LGA 6096) AMD EPYC™ 9005/9004 CPU, TDP up to 400W
	OS Support	Windows® Server 2019/2022/2025 (64 bit) Ubuntu 22.04.5 / 22.10 / 24.04.2 (64 bit)
System Memory	Supported Type	8-slot DDR5 288-pin RDIMM, RDIMM-3DS, 1.1v
		1 DIMM per channel
	Max. Capacity per DIMM	RDIMM: 128GB (2Rx4) RDIMM-3DS: 256GB (2Rx4)
PCIe Expansion Slots (Slot 6 nearest to CPU)	PCIe	Slot #1: Gen5, x8
		Slot #2: Gen5, x16
		Slot #3: Gen5, x8
		Slot #4: Gen5, x16
		Slot #5: Gen5, x16
		Slot #6: Gen5, x16
	MCIO	4x MCIO (PCIe5.0 x8), 1x MCIO (PCIe5.0 x8 or 8x SATA 6Gb/s)
Storage	M.2	2x M.2 2280 NVMe/SATA
	SATA	Shared with MCIO
I/O	LAN	2x 1GbE (I210), 2x 10GbE (X710), 1x 1GbE dedicated for BMC
	USB	2x USB Type-A 3.2 Gen1 ports
	Serial Port	1x COM via internal header
	Local display	1x D-Sub 15-pin VGA port

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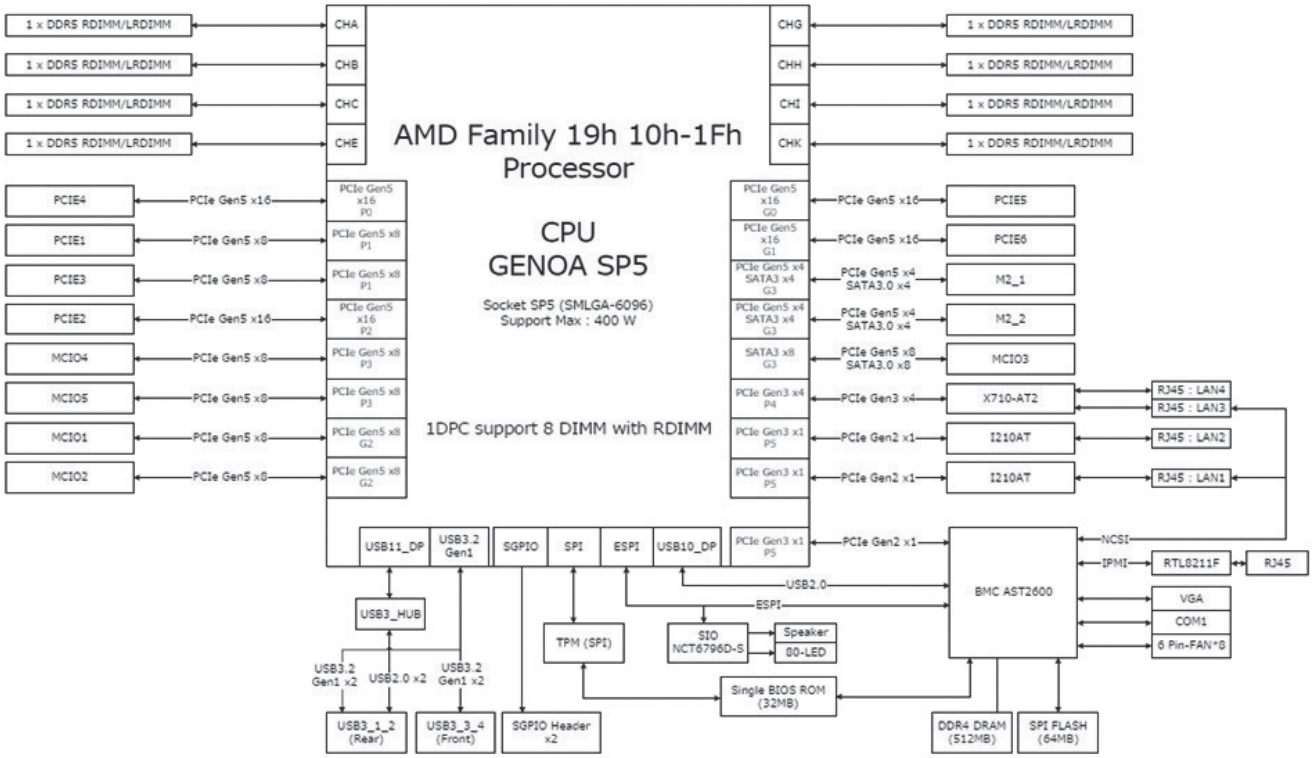
Specifications

Server Management	BMC Controller	Aspeed AST2600, with IPMI v2.0 & Redfish support
Mechanical and Environmental	Operating Temperature	10°C to 35°C (50°F to 95°F)
	Storage Temperature	-40°C to +70°C (-40°F to +158°F)
	Relative Humidty	20% to 90% (Non condensing)

Front View

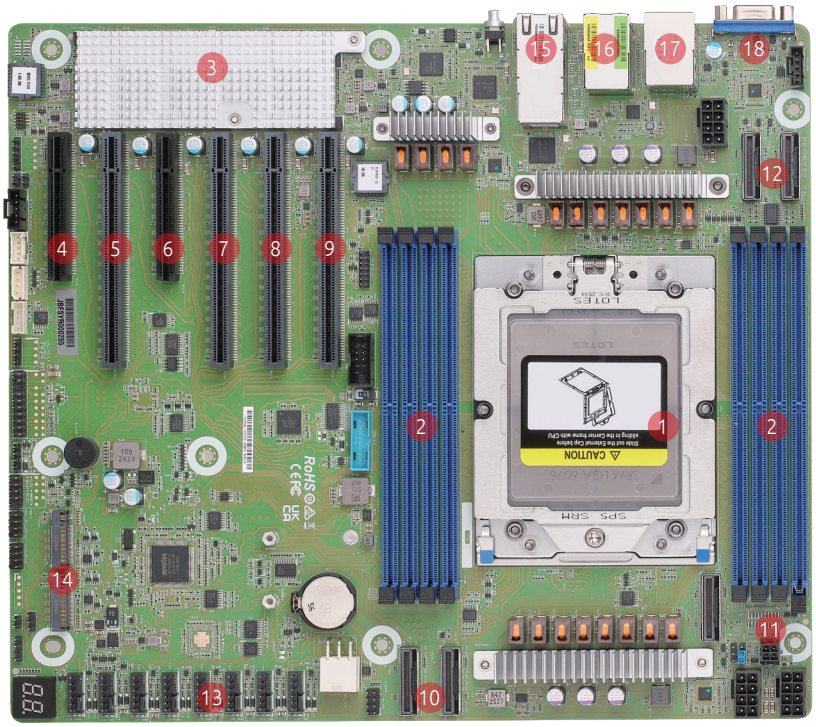


Block Diagram



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Layout



No.	Description
1	1x AMD 9004/9005 SP5 CPU socket
2	8x DDR5 DIMM slots
3	BMC AST2600 & Intel X710
4	PCI Express Gen5.0 x8 Slot (PCIe1)
5	PCI Express Gen5.0 x16 Slot (PCIe2)
6	PCI Express Gen5.0 x8 Slot (PCIe3)
7	PCI Express Gen5.0 x16 Slot (PCIe4)
8	PCI Express Gen5.0 x16 Slot (PCIe5)
9	PCI Express Gen5.0 x16 Slot (PCIe6)

No.	Description
10	2x MCIO x8 Connector
11	1x MCIO x8 Connector
12	2x MCIO x8 Connector
13	8x System Fan Connector
14	2x NVMe Gen5 M.2 2280/22110 slots
15	2x 10G LAN RJ-45 Port
16	2x 1G LAN RJ-45 Port
17	IPMI LAN Header & 2* USB 3.2 Gen1 Ports
18	VGA Port

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