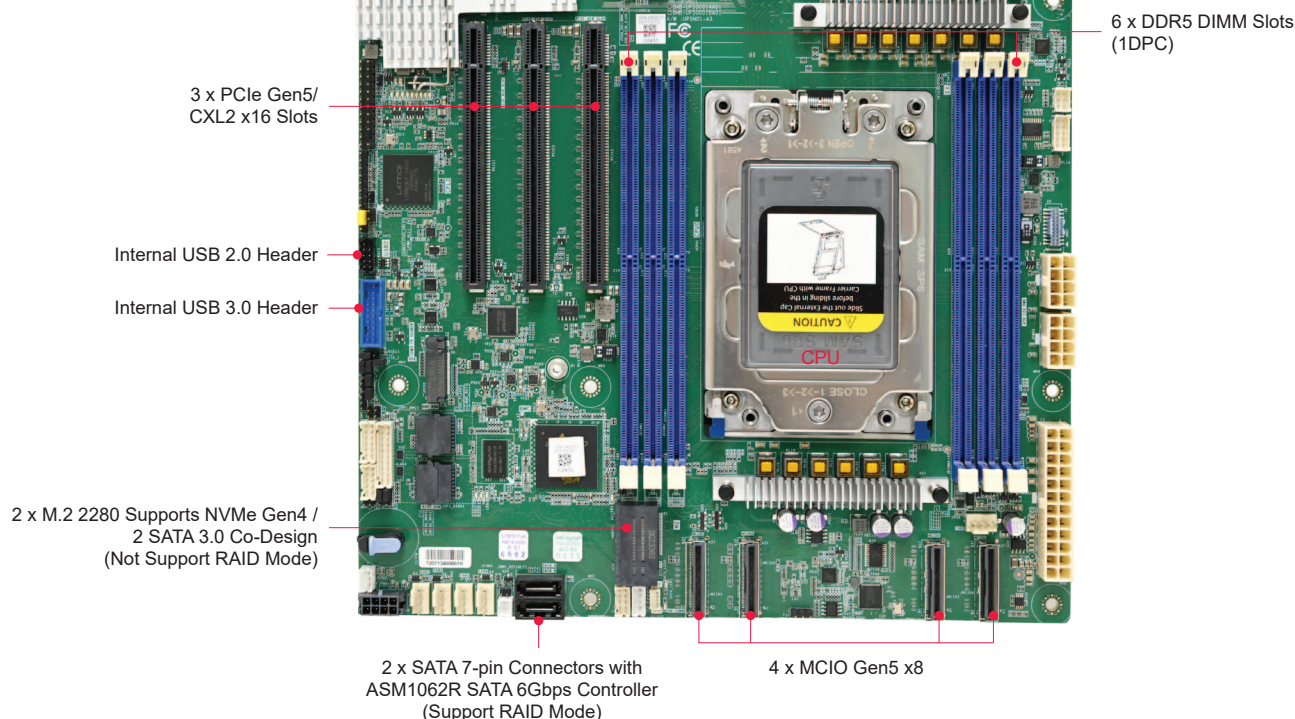
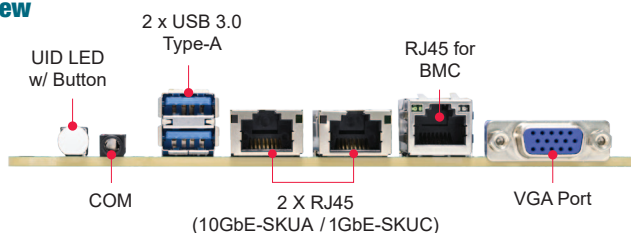




I/O View



Dimensions

mm : 243.84 x 245.2 / inches : 9.6 x 9.65

The Zelus server board offers the latest AMD EPYC™ SoC technology with efficiency core/power in an x86-architecture with AMD EPYC™ 8005/8004 Series processor, 6x DDR5 memory channels and 96x PCIe Gen5 bandwidth with balanced I/O bandwidth that matches the capability of the CPU cores to move data to and from the network, spinning disks, NVMe storage, and graphics acceleration devices.

Features

- Supports AMD EPYC™ 8005/8004 Series processor Siena based on the AMD "Zen4", future support Sorano (Zen5) microarchitecture for highest server performance
- Supports 6 DDR5 DIMM slots for maximum memory performance
- Supports 3 PCIe Gen5 x16 slots
- Supports four MCIO x8 total 32 PCI Express Gen5 lanes
- Onboard Baseboard Management Controller for system management and IPMI control
- Embedded components for 5+ year long life

Specifications

System	Processor Support	Single AMD EPYC™ 8005/8004 Series Processor	
	CPU TDP	225W	
	Socket Type	Socket SP6	
	System Memory	• DDR5 4800MHz 1DPC RDIMM • Total 6 memory slots	
	Expansion Slots	• 3 x PCI Express Gen5 x16 slots • 4 x MCIO x8 (PCIe Gen5) Total support 80 lanes of PCI Express Gen5 • 2 x NGFF(M.2) M-Key(2280) support NVMe x4/SATA co-design	
System BIOS	BIOS Type	AMI UEFI BIOS	
	BIOS Features	• ACPI • PXE • AC loss recovery • IPMI KCS interface • SMBIOS • Serial console redirection • SRIOV • TPM • PCIe hotplug	
On-board Devices	SATA	2 x SATA 7-pin connectors with ASM1062R SATA 6Gbps Controller (Support RAID 0, RAID 1, SPAN)	
	BMC	Aspeed AST2600 Advanced PCIe Graphics & Remote Management Processor • Baseboard Management Controller • Intelligent Platform Interface 2.0 (IPMI 2.0) • iKVM, Media Redirection, IPMI over LAN, Serial over LAN • SMASH support • HTML5 • Redfish	

On-board Devices	Network Controller	• Realtek RTL8211FS GbE for BMC dedicate management port (NCSI shared NIC - reserved for Broadcom NIC) • Broadcom BCM57416/BCM5720L co-design supports 2 x 10G Base-T/1GbE
	Graphics	Integrated VGA support by ASPEED AST2600 Resolution up to 1920x1200 @60Hz 32bpp
Input/ Output	SATA	2 x SATA 7-pin connectors with ASM1062R SATA 6Gbps Controller (Support RAID 0, RAID 1, SPAN)
	LAN	• 2 x RJ45 connectors for dual port 10GbE/GbE • 1 x RJ45 connector (for BMC management port)
	USB	• 2 x USB 3.0 double-stack Type-A connectors • 2 x USB pin headers support 4 x USB 3.0/2.0
	VGA	1 x external VGA port
	Serial Port	• 1 x external COM port • 1 x internal COM box header
	Additional Information	Security: • TPM 2.0 onboard

Ordering Information

MB SKU	Order Info	Description
Zelus (A)	BMB1UPS0001A	PCBA/MOTHER BOARD/MB-UPSN01/ZELUS AMD SP6/SIENA/6DDR5/PCIE GEN5/4X MCIO X8 3X PCIE SLOT X16/2X M.2/10G+RENESAS
Zelus (A)	M22-1717-010	Zelus MB (BMB1UPS0001A) (with 10G LAN) with IOS (M60-1717-001), bulk packing with 10 pcs MB & IOS (10 pcs in packing)
Zelus (A)	M22-1717-011	Zelus MB (BMB1UPS0001A) (with 10G LAN) with IOS (M60-1717-001), single packing
Zelus (C)	BMB1UPS0001C	PCBA/MOTHER BOARD/MB-UPSN01/ZELUS AMD SP6/SIENA/6DDR5/PCIE GEN5/4X MCIO X8 3X PCIE SLOT X16/2X M.2/1G+RENESAS
Zelus (C)	M22-1717-024	Zelus MB (BMB1UPS0001C) (with 1G LAN) with IOS (M60-1717-001), bulk packing with 10 pcs MB & IOS (10 pcs in packing)
Zelus (C)	M22-1717-025	Zelus MB (BMB1UPS0001C) (with 1G LAN) with IOS (M60-1717-001), single packing