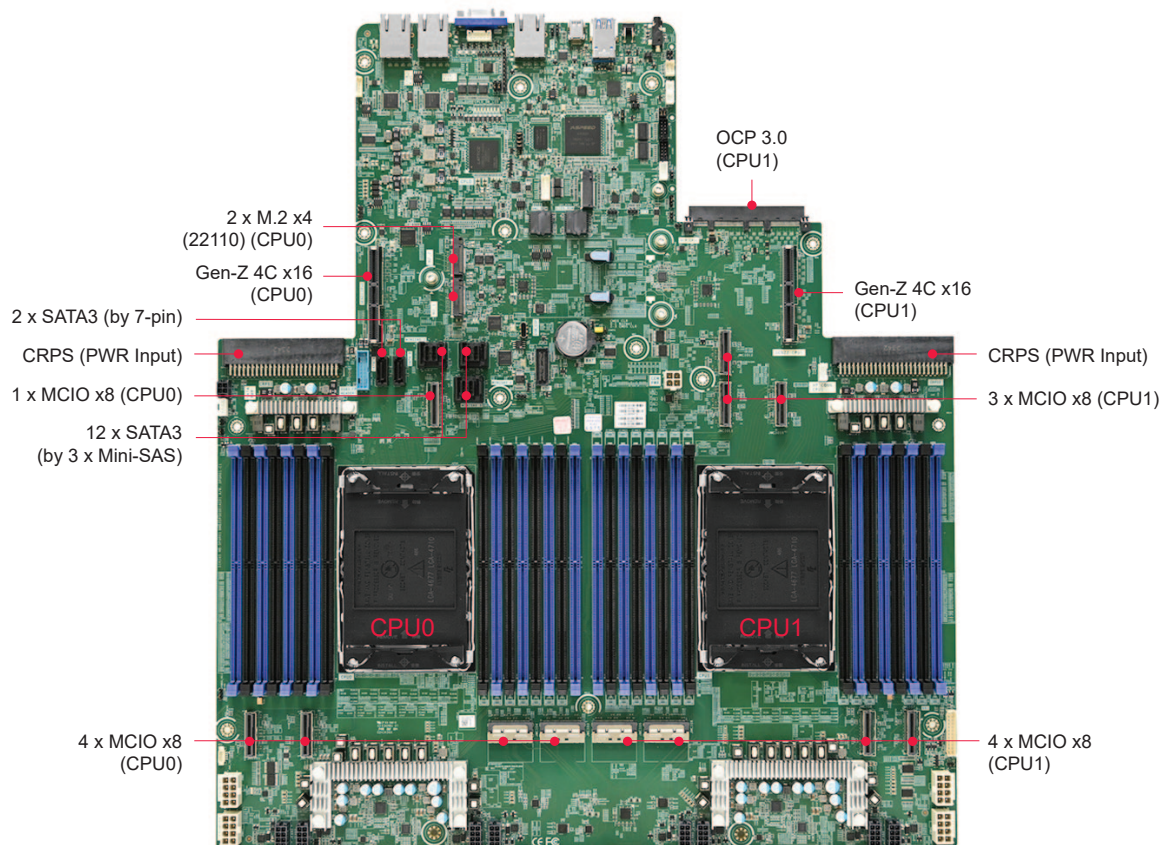
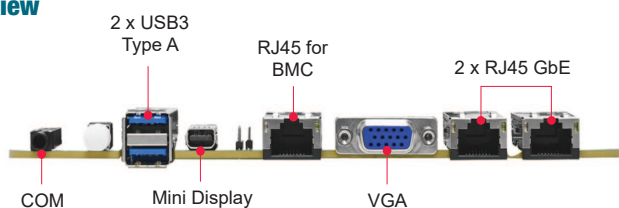




I/O View



Dimensions

mm : 427 x 479 / inches : 16.8 x 18.8

Sirius supports dual Intel® Xeon 6 processors 6500/6700 series with up to 144 CPU cores and TDP up to 350W. It supports up to 8TB DDR5 3DS RDIMMs with 32 memory slots and memory speeds up to 6400MHz.

The high-speed expansion I/O includes 2 Gen-Z 4C x16 PCIe5.0/CXL, 1 OCP3.0 x16 PCIe5.0/CXL, 12 MCIO x8 PCIe5.0/CXL, 2 M.2 22110 x4 PCIe5.0/CXL, 2 SATA3.0 7-pin connectors (support RAID 0, RAID1, SPAN), 3 Mini-SAS HD 4i connectors (support 12 SATA3 devices), 2 USB3 ports on rear, and 1 internal USB3 header (support 2 USB3). Security features include TPM2.0.

Features

- Supports Intel® Xeon® 6 Scalable Processors for highest every performance and improved power efficiency
- Supports 32DDR5 DIMM slots for maximum memory performance
- Supports Compute Express Link (CXL2.0)
- Supports MCR DIMMs (8000MHz)
- Supports twelve MCIO x8, total 96 PCIe 5.0 lanes
- Supports one OCP3.0 Mezzanine PCIe 5.0 x16 extension
- Supports two Gen-Z 4C PCIe 5.0 x16, total 32 PCIe 5.0 lanes
- Supports three Mini-SAS HD 4i connectors up to twelve SATA3 devices

Specifications

System	Processor Support	Dual Intel® Xeon 6 processors 6500/6700 series CPU
	CPU TDP	350W
	UPI Speeds	24GTs
	Socket Type	Socket E2 (LGA 4710 Socket)
	System Memory	• DDR5 • 6400MHz (1DPC RDIMM); • 5200MHz (2DPC RDIMM) • 8000MHz (1DPC MCR) • Total 32 memory slots; 8 channel per CPU (2DPC) • Support up to 8TB (3DS RDIMM)
System BIOS	Expansion Slots	• 2 x Gen-Z 4C x16 PCIe5.0/CXL connectors • 1 OCP3.0 x16 PCIe5.0/CXL connector • 12 MCIO x8 PCIe5.0/CXL • 2 M.2 2280/22110 x4 PCIe5.0 • Total support 152 lanes of PCIe5.0 • 2 SATA3.0(6Gb/s) 7-pin connectors • 3 mini-SAS HD 4i connectors (support 12 SATA3 ports) • 1 USB 3.0 double-stack Type-A connector supports two USB 3.0 devices • 1 USB pin header supports two USB 3.0
	BIOS Type	AMI UEFI BIOS
System BIOS	BIOS Features	• ACPI • PXE • WOL • AC loss recovery • IPMI 2.0 KCS mode interface • SRIOV • SMBIOS • TPM • Serial console redirection • PCIe hotplug

On-board Devices	SATA	ASMedia ASM1062R SATA (6Gbps) Raid Controller (Support RAID 0, RAID1, SPAN) supports 2 SATA ports 3 ASMedia ASM1164 SATA (6Gbps) Controller) Support 12 SATA ports
	BMC	ASPEED AST2600
On-board Devices	Network Controller	2 x Intel® I210 GbE Ethernet Controller
	Graphics	• Integrated VGA support by ASPEED AST2600 • Resolution up to 1920x1200 @60Hz 32bpp
	Additional Information	TPM 2.0 - NUVOTON NPCT760AABYX
Input/Output	SATA	• 2 x SATA3 7-pin by ASM1026R (supports RAID 0/1) • 12 x SATA3 with 3 x mini-SAS conn. by 3 ASM1164
	LAN	• 2 x RJ45 connectors for dual port GbE • 1 x RJ45 connector (for BMC management port)
	USB	• 1 x USB 3.0 double-stack Type-A connector supports two USB 3.0 ports • 1 x USB pin headers supports USB 3.0
	Display	• 1 x DB-15 VGA connector • 1 x Mini display port
	Serial Port	1 x COM connector (Audio Jack)
	Others	• 2 x Gen-Z 4C PCIe5.0/CXL x16 • 1 x OCP 3.0 PCIe5.0/CXL x16 • 12 x MCIO x8 support PCIe5.0/CXL (5 from CPU0 + 7 from CPU1) • 2 x M.2 each support PCIe5.0 x4
Input/Output	Additional Information	Security: • TPM 2.0 on-board

Ordering Information

MB SKU	Order Info	Description
Sirius (A)	BMB-DPG0000A	PCBA/MOTHER BOARD/MB-DPGR01/SIRIUS INTEL BIRCH STREAM/XEON6 6500/6700 X2/32DDR5 PCIE GEN5/ 12X MCIOX8/2X GENZ/2X M.2 (MOQ 500)
Sirius (B)	BMB2DPG0001A	PCBA/MOTHER BOARD/MB-DPGR01/SIRIUS INTEL BIRCH STREAM/XEON6 6500/6700 X2/32DDR5 PCIE GEN5/ 12X MCIOX8/2X GENZ/2X M.2 (MOQ 1K)
Sirius (B)	M22-1717-014	Sirius MB (BMB2DPG0001A) bulk packing with 10 pcs MB (10 pcs in packing)