









- Dual AMD EPYC 7002 processors
- supports up to 8 dual-slot PCle4.0 x16
- Front side PCIe FHHL slot and OCP NIC 3.0, optional OCP2.0 mezzanine cards supportUp to 12x 3.5" drive bays
- On-board dual 10G Base-T

Front view



Rear view



Product Sp	ecifications				
System					
Form Factor	4U Rackmount				
Dimensions	420 +045 +1765 (//6)				
	438mm*845mm*176.5mm (w/ fans)				
Motherboard	ROME2D32GM-2T				
Expansion S					
Front	1 x FHHL (PCle x8) via SL2P 1 x SFF OCP NIC3.0 (PCle x8) via SL2OCP3				
Rear	Optional OCP 2.0 connector A and B via SL2N 8x double-width (PCle4.0 x16) on 4UXG SWB				
Drive Bays/					
Controller	AMD EPYC 7002 series processors				
Hot-swap	12x 3.5" Storage Bays supporting: 1. 2 x 3.5" HDD Trays (for 2.5" PCle x4 NVMe) 2. 2 x 3.5" HDD Trays (for 2.5" PCle x4 NVMe, shared with Front PCle x8 slot) 3. 8 x 3.5" HDD Trays (optional SAS/SATA RAID/HBA card)				
Internal	1x M.2 (PCIe x4)				
Front I/O					
	Power button w/ LED				
Buttons	Reset button				
	NMI button				
	UID button				
LEDs	System fault LED				
	HDD activity LED				
	2x RJ45 10G Base-T via Intel X550-AT2				
I/O ports	1x RJ45 dedicated IPMI via AST2500+RTL8211E				
, - po.to	1x DB15 via AST2500				

Processor	System				
CPU	Supports AMD EPYC 7002 series processors				
Socket	1+1 Socket SP3 (LGA 4094)				
TDP	280W				
Chipset	System on chip				
System Me	emory				
Socket	16+16 DDR4 288-pin DIMM slots (2DPC)				
	R-DIMM: max. 3200(1DPC)/ 2933MHz				
Frequency	LR-DIMM: max. 3200(1DPC)/ 2933MHz				
	NV-DIMM: TBD*				
	R-DIMM: max. 64GB*				
Capacity	LR-DIMM: max. 256GB*				
	NV-DIMM: TBD*				
Voltage	1.2V				
Rear I/O					
	2 RJ45 (10GbE) by Intel X550-AT2, shares with				
RJ45	front panel				
	1 dedicated IPMI LAN, shares with front panel				
USB	2x Type-A USB3.0				
VGA	1x DB15				
Others	UID button				
Managem					
Controller	ASPEED AST2500				
Graphics					
Controller	ASPEED AST2500				
VRAM	DDR4 16MB				
TPM					
Header	1x 17-pin (LPC), 1x 13-pin (SPI)				
System Blo	OS				
BIOS Type	256Mb AMI UEFI Legal BIOS				
	Enviroment				
Operating T					
10°C ~ 35°C					

5x 8038 **SKU Options**

Power Supply Redundancy 3+1 Output Watts 1600W

Efficiency

Input range

System Fan Fan

4x USB 3.0

5x 8080

80-PLUS Platinum

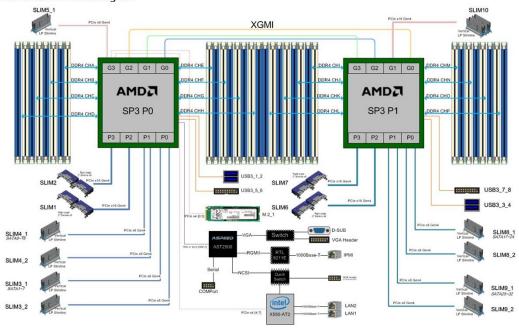
100-240V AC/ 47-63 Hz

3x 0000				10 0 70 0	
5	x 8038		* Wait device to validate		
	PCle Gen4 x16 Slot	PCIe Gen4 x8 Slot	2.5" NVME	PCIe RAID card for 8 x SAS/SATA	M.2 (NVMe)
	1	0	2	0	1
	0	2	2	0	1
	0	1	4	0	1
	0	1	2	8	1
	1	0	0	8	1
	0	2	0	8	1
	0	0	4	8	1

Non-operating temperature. -40°C ~ 70°C



Motherboard Block diagram



System Topology

