

Rigel Edge Supercomputer

Rugged High Performance Computer (Part number: OSS-EGX-R100)

Features

- NVIDIA HGX A100 4-GPU SXM 320 GB
- 2.4 TB/s total CPU aggregate bandwidth
- Single AMD EPYC 7003 processor
- DDR4-3200 system memory
- 4x PCIe 4.0 x16 expansion slots
- Compact, lightweight and rugged aluminium frame

System

CPU	AMD EPYC 7003 processor Single socket SP3 (LGA4094)
GPU	4x NVIDIA A100 SXM GPUs 320 GB GPU memory Third generation NVLink 2.4 TB/s total aggregate bandwidth
RAM	8x ECC DDR4 RDIMM/LRDIMM slots (modules up to 128 GB supported)
Boot media	PCIe 4.0 x4 NVMe M.2
Network controllers	1x RJ-45 10/100/1000 on rear panel 3x RJ-45 unified baseboard management on rear panel

I/O

USB	2x USB-C on rear panel
Video	1x VGA on rear panel
Expansion Slots	4x PCIe 4.0 x16 HHHH slots

Environment

Temperature	0°C ~ 35°C (at 10,000ft altitude) -40°C ~ 70°C (at 10,000ft altitude)
Humidity	0% to 95%, non-condensing 0% to 100%, non-condensing
Anti-Shock	± 10g, 11msecm, half-sine pulse, 3 shocks per axis
Ani-Vibration	4.5 Grms, 10 to 2000Hz

Mechanical

Power Supplies	Dual 2000W 54V output, 80plus platinum efficiency, PMBUS 1.2 Dual 1600W 12V output, 80plus platinum efficiency, PMBUS 1.2
Power Input	90-264VAC, 47-63Hz 110VAC, 400-800Hz, 3ø 180-300 VDC 48 VDC
BMC	OSS Unified Baseboard Management Control <ul style="list-style-type: none"> ▪ Temperature, power, fan speed monitoring and control ▪ IPMI based web-interface ▪ PCIe switch management ▪ Redfish API support
Chassis	Lightweight aluminum frame Black anodized exterior
Cooling fans	2x 80mm x 80mm high CFM PWM controlled GPUs fans 4x 80mm x 28mm PWM controlled server fans
Agency	FCC—verified to comply with Part 15 of the FCC Rules, Class A Canada ICES-003, issue 4, Class A CE Mark (EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3) CISPR 22, Class A
Compliance	RoHS 6 of 6, WEEE MIL-STD-461E CE102
Dimensions	177.8mm x 218.4mm x 678.1mm (7.0" H x 8.6" W x 26.7" D)
Weight	22.7 kg (50lbs)

Front



Rear

