

RGS-8805GC Rugged HPC Server

AMD® EPYC™ 7003 “MILAN” series rugged HPC server supporting NVIDIA® RTX A6000/ A4500 GPU

Features

- Powered by AMD® EPYC™ 7003 series processors, supporting up to 64-core/ 128-thread
- GPU applications include support for one NVIDIA® RTX A6000/ A4500 with proprietary heat dissipation
- Storage applications include support for one OSS hot-swappable M.2 carrier
- Rugged -25°C to 60°C operation for edge applications
- 2x 10G Ethernet by Intel® X550-AT2 and 4x GbE by Intel® I350-AM4
- Supports 4x DDR4 RDIMM/ LRDIMM up to 512GB of memory
- Compact 2U 19" rack-mount enclosure with only 350mm depth
- Four easy-swappable 2.5" SATA trays for 7mm HDD/ SSD



System

CPU	AMD® EPYC™ 7003 "Milan" series server CPU, up to 64-core/ 128-thread
Graphics	Integrated graphics in ASPEED AST2500 BMC, supporting 1920x1200 resolution
RAM	4x RDIMM/ LRDIMM slots, supporting up to 512GB DDR4-3200
Storage Capacity	4x easy-swappable HDD trays for 2.5" HDD/ SSD installation 1x M.2 2280 M key socket (PCIe Gen4 x4) for NVMe SSD 4x hot-swappable M.2 NVMe SSDs when used with OSS M.2 carrier card
GPU	Supporting NVIDIA® RTX A6000/ A4500
TPM	Supports TPM 2.0

I/O

USB	4x USB 3.2 Gen1 (5 Gbps) ports
Ethernet	2x 10GBASE-T ports by Intel® X550-AT2, supporting NBASE-T (5G/ 2.5G) 4x GbE ports by Intel I350-AM4
PoE	4x GbE ports IEEE 802.3at PoE+ PSE capability
Serial Ports	2x software-programmable RS-232/ 422/ 485 ports
Video	1x VGA port via ASPEED AST2500 BMC
Expansion Slots	1x PCIe x16 slot@Gen4, 16-lanes for RTX A6000/ A4500 installation 2x PCIe x16 slots@Gen4, 8-lanes 1x M.2 3042/ 3052 B key with dual micro-SIM sockets for 4G/ 5G module 2x full-size mini PCI Express sockets with USIM support

Mechanical & Environment

DC Input	2x 4-pin 7.62mm pitch pluggable terminal block for 8 to 48V DC input and ignition control input
Dimensions	444.4 mm (W) x 350 mm (D) x 88.1 mm (H)
Mounting	Wall-mount with damping brackets (standard) Rack-mount (optional)
Operating temperature	-25°C ~ 60°C with 100% CPU/ GPU loading */**
Storage temperature	-40°C ~ 85°C
Humidity	10%~90% , non-condensing
Vibration	Operating, MIL-STD-810G, Method 514.6, Category 4
Shock	Operating, MIL-STD-810G, Method 516.6, Procedure I, Table 516.6-II
Certification	CE/ FCC Class A, according to EN 55032 & EN 55035

*The CPU and GPU loading tests are applied using Passmark® BurnInTest 9.1 with a 225W CPU. Operating temperature degrades with higher CPU TDP.

**For sub-zero operating temperature, a wide temperature HDD drive or Solid State Disk (SSD) is required.

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Dimension



Appearance

