

Camarero SDA200A2G-818

Key Feature

- DP AMD 8U System with NVIDIA HGX H100/H200 8-GPU, 8 NIC for GPU direct RDMA (1:1 GPU Ratio)
- High Performance Computing AI/Deep Learning Training Industrial Automation, Retail Climate and Weather Modeling
- Dual AMD EPYC™ 9004/9005 Series Processors
- 24 DIMM Slots; Up to 6TB DRAM; 4800 ECC DDR5 LRDIMM; RDIMM
- 8 PCIe Gen 5.0 X16 LP, and up to 4 PCIe Gen 5.0 X16 FHFL Slots
- Flexible networking options
- 12 front hot-swap 2.5" NVMe drive bay(s), 2 front hot-swap 2.5" SATA drive bay(s)
- 6x 3000W (4+2) Redundant Titanium Level power supplies, Optional: 8x 3000W (4+4) PMBus 1.2 Support for Remote Management
- 10 heavy duty fans with optimal fan speed control, Direct to Chip (D2C) Cold Plate (optional)



Processor/Cache and GPU

Processor	Dual processor(s), AMD EPYC™ 9004/9005 Series Processors, Up to 128C/256T Note : Supports up to 400W TDP CPUs, This system supports AMD EPYC™ 9004/9005 Series processors up to 400W TDP
GPU	Up to 8 onboard GPUs, NVIDIA SXM: HGX H100 8-GPU (80GB), HGX H200 8-GPU (141GB), PCIe 5.0 x16 CPU-to-GPU Interconnect, NVIDIA® NVLink® with NVSwitch™ GPU-GPU Interconnect (SXM5, 900GB/s bidirectional)

System Memory

Memory	24 DIMM slots Up to 6TB: 24x 256 GB DRAM Memory Type: 4800MTs ECC DDR5
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Onboard devices

Chipset / BMC	AMD SP5 Chipset, Aspeed 2600 series BMC
Network	Flexible Networking Options using Add on Controller populated in PCI-Express (PCIe) slots
GPU Fabric	8 PCIe Gen 5.0 X16 LP supporting CX-7 for GPU RDMA
USB / Serial	2 x USB 3.0, 2 x USB 3.0 (Optional)
Graphics	Aspeed 2600 series BMC (1920 x 1200 , 16MB Memory, 1 x VGA Port)

Expansion Slots

PCI-Express	8 PCIe Gen 5.0 X16 LP for GPU RDMA Network 2 PCIe Gen 5.0 X16 FHFL Slots, 2 PCIe Gen 5.0 X16 FHFL Slots (optional) for Network Cards / Video Cards / Storage Cards
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Chassis

Form Factor	8U rackmount
Dimensions	Height - 14" (355.6mm), Width - 17.2" (437mm), Depth - 33.2" (843.28mm)
Power Supply	Redundant & Hot-Swappable 80+ Titanium Power Supply - 6x 3000W (4+2), Optional: 8x 3000W (4+4)
Fans	Heavy duty fans with optimal fan speed control (Redundant, Hot-Swappable), Direct to Chip (D2C) Cold Plate (optional)
Drive bays	16x 2.5" Hot-swap NVMe drive bays (12x by default, 4x optional) 2x 2.5" Hot-swap SATA drive bays

Drive bays Optional Storage Controllers, Support for Broadcom MegaRAID and Adaptec® Controllers

Features

Hardware Monitoring – LED indicators for Power status, System alert, LAN activity, Drive activity, System ID, Monitoring & Management for CPU, GPU, Memory, Storage, Network and Chassis Environment for power and cooling. Actual or Impending failure alerts using event logs and SMART attributes, Monitoring of CPU voltages, Chipset Voltage, PSU +5V standby, +5V, +3.3V, +12V

BIOS Features - ACPI 6.4, SMBIOS 2.8/3.5, UEFI 2.8A, Plug and Play (PnP), PCI 5.0, USB 3.0, NVMe 2.0c

Applications Environment, Management and Security

Application Environment – AMD RoCM containers (Optional), Support for Tyrone Skylus.AI, Tyrone Kubys AI Platforms

Management - Monitoring, Event Handling and Alerting, System Fault, Health Management and diagnosis with event logs repository, Telemetry Streaming with inventory export, Remote Power Management (on/off), Protocols (Redfish API, LDAP, NTP, HTTPS, AD 1.0, SMTP, RSYSLOG, SNMP v2, v3 etc.), TLS 1.2, Updating Firmware , BIOS, Drivers using BMC WEB GUI, Additional Licenses for respective features for System Management using different interfaces such as Web/CLI/Redfish API. Optional – SIE (Sanitize Instant Erase), SED (Self-Encrypting Drive) (with supported Controllers and featured disks), Storage Management Utility featuring creation and destroying RAID Configurations for virtual disks, Tyrone ProServe suit support for centralized management

Security - Password protection, UEFI Secure BIOS/Firmware (BIOS and NIC level Boot), Dual SroT (TPM & PRoT), Platform Firmware Resiliency (NIST SP 800-193), OOB Server Intrusion Detection, System Lockdown, USB dynamic enable/disable (optional), Secure firmware updates, Policy defined security measures, RBAC, Configuration backup and restore, Encryption protocols – DES, AES, BIOS / Firmware Protection (NIST SP 800-147b) – Secure flash, Automatic & Secure Recovery & Anti-rollback, Tyrone Secure Platform, Access Control List

OS and Virtualization Compliance and Support

RHEL 9.0 x64, Rocky 8.5 x64, Ubuntu Linux 22.04

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◦ Some of the features may be available on specific variants only