

## Camarero SDA20A2GM-818

### Key Feature

- DP AMD 8U System with AMD Instinct™ MI300X 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 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, AMD: Instinct MI300X Accelerators, PCIe 5.0 x16 CPU-to-GPU Interconnect, AMD Infinity Fabric™ Link (896GB/s bidirectional)
System Memory	
Memory	24 DIMM slots Up to 6TB: 24x 256 GB DRAM Memory Type: 4800MT/s ECC DDR5
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
Chassis and Drive Bays	
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 2 x M.2 NVMe slots
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 for critical components, Monitoring with 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 Kubyts AI Platforms

Management - Monitoring, Event Handling and Alerting, System Fault, Health Management and diagnosis with event logs repository, Telemetry Streaming, 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 suite support for centralized management

Security - Password protection, UEFI Secure (BIOS, Firmware oriented) Boot, Dual immutable SROt controls integrity across BIOS & BMC Firmware, Platform Integrity Check, Platform Firmware Resiliency (NIST SP 800-193), Server Intrusion Detection mechanism in all power states including Power OFF, System Lockdown for prevention from security breaches, USB dynamic enable/disable (optional), Secure firmware updates, Policy defined security measures, RBAC, Configuration backup and restore, Encryption protocols – DES, AES. BIOS / BMC Firmware Protection against unauthorized modification by malicious software, with BIOS authentication mechanism and integrity from infected / malicious firmware with built in recovery provisions, (NIST SP 800-147b) – Secure flash, Automatic & Secure Recovery & Anti-rollback, Tyrone Secure Platform, Access Control List with IP Access Control

### OS and Virtualization Compliance and Support

RHEL 9.3 x64, Oracle 9.2 x64, Rocky 8.5 x64, Ubuntu Linux 22.04

Citrix Hypervisor 8.2

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