

Tyrone Camarero Specifications

Tyrone

Camerero: SDA200A2N-18

Key Feature

- Applications - Virtualization, Software-defined Storage, Cloud Computing, Enterprise Server
- Dual processor(s), AMD EPYC™ 9004/9005 Series Processors, Up to 300W TDP
- Aspeed 2600 series BMC (1920 x 1200 , 16MB Memory)
- 24 x DIMM slots, Max 9TB 6000MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor)
- 1 x OCP 3.0, 2 x NVMe M.2, 1 x VGA, 2 x USB 3.0
- Configuration Options for up to 4 PCI-E 5.0 x16 Slots OR up to 6 PCI-E 5.0 x8 Slots
- 4U Rackmount Chassis, 60 x 3.5" Top Loading Bays (SAS/SATA) with expander backplane
- 12 x 2.5"/3.5" Rear Bays (SAS/SATA/NVMe) with direct attached backplane
- Redundant & Hot-Swappable 80+ Titanium Power Supply (2000W / 2400W)
- PMBus 1.2 Support for Remote Management
- SLB 9672 chipset based TPM 2.0 Module



Processor/Cache

Processor	Dual processor(s), AMD EPYC™ 9004/9005 Series Processors Note : Supports up to 300W TDP CPUs , Air Cooled CPUs with TDP over 300W supported under specific conditions. Contact a Tyrone representative for details.
Core Count	Upto 320C/640T Cache Per CPU

System Memory

Memory	Slot Count: 24 DIMM slots, Max Memory (1DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor) Max Memory (1DPC): Up to 9TB 6000MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor)
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Onboard devices

Chipset / BMC SoC, Aspeed 2600 series BMC	
Network	1 x OCP 3.0 for Flexible networking, WOL, Secure PXE Boot support, BMC LAN supports DHCP, IPV4, IPV6 IPMI IPMI 2.0 iKVM, Virtual Media Redirection, IPMI over LAN, Serial over LAN, SMASH-CLP Support, Built-in HTML5 GUI, SNMP v2/v3, 1 RJ45 Dedicated BMC LAN port for Remote Management LAN & WAN with SSL encryption,
IPMI	
USB / Serial	2 x USB 3.0
Graphics	Aspeed 2600 series BMC (1920 x 1200 , 16MB Memory, 1 x VGA Port)

Expansion Slots

PCI-Express	Upto 4 x PCIe 5.0 x16 or upto 6 x PCIe 5.0 x8 Supports upto 4 x Network Cards (x4, x8, x16) or Video Cards, Supports upto 4 x Storage Cards
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Chassis and Drive Bays

Form Factor	4U rackmount
Dimensions	1046.4*446.2*175.7 (D x W x H) (D=1191 with CMA)
Power Supply	Redundant & Hot-Swappable 80+ Titanium Power Supply (2000W/2400W)
Fans	Heavy duty fans with optimal fan speed control (Redundant, Hot-Swappable), 60 x 3.5" Top Loading Bays (SAS/SATA) with expander backplane 12 x 2.5"/3.5" Rear Bays (SAS/SATA/NVMe) with direct attached backplane Default support for 8 x SATA3 rear drive bays and 2 x M.2 NVMe
Drive bays	Upto 72 SAS3 / SATA3, including support for upto 12 NVMe Drives NVMe via 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.

Management and Security

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

Windows Server 2019, 2022 x64, RHEL 8.5, 9.0 x64, Oracle 8.5, 9.0 x64, Rocky 8.5 x64, SLES 15 x64, Ubuntu Linux 22.04

Windows Hyper-V, Red Hat OpenShift Container Platform 4.13, Red Hat OpenStack Platform 17.0, VMware ESXi 7.0, 8.0, Citrix Hypervisor 8.2

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