Tyrone Camarero Specifications

Camarero SDI200A3N-212

Key Feature

- Applications Virtualization, Software-defined Storage, AI Inference and Machine Learning, Cloud Computing, Enterprise Server
- Dual Socket E (LGA-4677), Intel[®] Xeon[®] 5th Gen / 4th Gen, Intel Xeon CPU Max Series with HBM
- Supports upto Two double width/single width data Center GPUs (Thermal Limitation may apply)
- Intel[®] C741 Chipset, Aspeed 2600 series BMC (1920 x 1200 , 16MB Memory)
- 32 x DIMM slots, Max 8TB memory, upto DDR5-5600 (@1DPC) / DDR5-4400 (@2DPC)
- 2 x OCP 3.0, 2 x NVMe M.2, 1 x VGA, 2 x USB 3.0, 2 x USB 3.0 (Optional), 1 x Serial Port (Optional)
- Configuration Options for up to 4 PCI-E 5.0 x16 Slots OR up to 8 PCI-E 5.0 x8 Slots
- 2U Rackmount Chassis, 12 x 3.5" or 8 x /16 x /24 x 2.5" Hot-swap bays (supports NVMe/SAS/SATA drives)
- Redundant & Hot-Swappable 80+ Titanium Power Supply (1200W / 1600W / 2000W),
- PMBus 1.2 Support for Remote Management
- SLB 9672 chipset based TPM 2.0 Module

Processor/Cache

Processor	Dual Socket E (LGA-4677), 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors Supports Intel Xeon CPU Max Series with high bandwidth memory (HBM) Note : Supports up to 350W TDP CPUs (Air Cooled), Supports up to 350W TDP CPUs (Liquid Cooled)
Core Count	Upto 64C/128T; Upto 320 MB Cache Per CPU

System Memory

	Slot Count: 32 DIMM slots, Max Memory (1DPC): Up
Memory	to 4TB 5600MT/s ECC DDR5 RDIMM Max Memory
	(2DPC): Up to 8TB 4400MT/s ECC DDR5 RDIMM)

Onboard devices

Chipset / BIVIC	Intel [®] C741 Chipset, Aspeed 2600 series BMC	
Network	2 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,	
USB / Serial	2 x USB 2.0, 2 x USB 3.0 (Optional), 1 x Serial Port (Optional)	
Graphics	Aspeed 2600 series BMC (1920 x 1200 , 16MB Memory, 1 x VGA Port)	
Expansion Slots		
	Upto 4 x PCIe 5.0 x16 or upto 8 x PCIe 5.0 x8	
PCI-Express	Supports FH-10.5"L upto 4 x Network Cards (x4, x8, x16) or Video Cards, Supports upto 4 x Storage Cards, Supports upto 2 x Data Center GPU's (upto 350W)	
Chassis		
Form Factor	2U rackmount	
Dimensions	Height 3,5" (88,9mm), Width 17,2" (437mm), Depth 31,6" (803mm).	
Power Supply	Redundant & Hot-Swappable 80+ Titanium Power Supply(1200W / 1600W / 2000W)	
Fans	Fans 4x 8cm heavy duty fans with optimal fan speed control (Redundant, Hot-Swappable), 2 Air Shroud(s)	
Drive bays	12 x 3.5" or 8 x /16 x/24 x 2.5" hot-swap drive bays, SAS/SATA/NVME Backplane, Default support for 8 x SATA3 drive bays and 2 x M.2 NVMe, Upto 24 x SAS3 , SATA3 / 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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Some of the features may be available on specific variants only

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