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C-DOT

Centre for Development of Telematics

VIRAJ-200 SERVER



VIRAJ-200 Server is a dual-socket platform, which supports 4th and 5th Gen Intel Xeon Scalable processors. VIRAJ-200 Server offers a balanced system design with accelerated performance and capacity across the platform, including memory, storage, networking, and I/O. The system supports 32 DIMM Memory slots, 3 Riser card slots and 24 drive bays for 2.5" SATA/NVMe drives.



COMPUTE PERFORMANCE

Up to 64 high-speed cores per processor, and up to 128 cores per server, deliver outstanding dual-socket core count density and performance.



HIGH SPEED I/O INTERCONNECT BETWEEN PROCESSORS

Up to 4 Intel Ultra Path Interconnects to accelerate I/O between processors.



HIGH MEMORY BANDWIDTH, SPEED, AND CAPACITY

Fast data transfer with 8 memory channels per processor running at up to 5600MTPS, and memory capacity with 16 DIMMs per processor for up to 8 TB of DDR5 DIMM memory.



STORAGE PERFORMANCE

System supports up to 24 x 2.5" hot-swappable SATA/NVMe drives.



HIGH-SPEED NETWORKING

System supports OCP3.0 Mezzanine card for terminating interfaces upto 200Gbps.



MORE I/O THROUGHPUT

System supports up to PCIe 5.0 add on cards, with up to 16 lanes per slot with each lane operating at 32 GT/s.



HARDWARE-ENHANCED SECURITY

Hardware-enhanced security innovation with Intel Security Guard Extensions and new hardware-level cryptographic algorithm implementations to protect sensitive apps, data, and firmware, to help keep data safe without the typical performance penalty.

SERVER SPECIFICATIONS

DETAILS

Processor Support	- Dual Socket - E LGA4677 - Supports 4th and 5th Gen Intel Xeon Scalable processors - Intel Xeon Platinum 8XXX/Gold 6XXX/Gold 5XXX/Silver 4XXX/Bronze 3XXX processors - Intel UPI links: up to four @ 16 GT/s (processor SKU dependent)
Chipset	Intel C741 Series Chipset
Memory Support	32 DIMM slots 16 DIMM slots per processor, eight memory channels per processor - Two DIMMs per channel - All DDR5 DIMMs support ECC - Registered DDR5 (RDIMM) and three-dimensional stacking (3DS)-RDIMM - Memory capacity: up to 8 TB - Memory data transfer rates: up to 5600 MT/s at one DIMM per channel - Memory data transfer rates: up to 4400 MT/s at two DIMMs per channel
PCIe NVMe Support	- Support for up to 17 PCIe NVMe Interconnects 16 onboard MCIO connectors, 8 per processor - One M.2 NVMe/SATA connector
Onboard SATA Support	9 x SATA III ports (6 Gb/s, 3 Gb/s and 1.5 Gb/s transfer rates supported) - One M.2 connector – SATA / PCIe - Two 4-port mini-SAS HD (SFF-8643) connectors
USB Support	- Three external USB 3.0 connectors at rear of chassis. - One USB 2.0 and One USB 3.0 connectors at the front of chassis
Serial Support	One external RJ-45 serial-A port connector at rear of chassis
Open Compute Project (OCP) Module Support	Supports standard hot pluggable third generation OCP modules
Riser card support	Concurrent support for up to three riser cards with support for up to eight PCIe Gen5 add-in cards of various form factors such as FHFL, FHHL and LPHL. - Riser Slot #1: - Supports upto three PCIe add-in cards. - Supports x32 PCIe lanes - Riser Slot #2: - Supports upto three PCIe add-in cards. - Supports x32 PCIe lanes - Riser Slot #3: - Supports upto two PCIe add-in cards. - Supports x16 PCIe lanes
Server Management	- Integrated Baseboard Management Controller (BMC) - Intelligent Platform Management Interface (IPMI) 2.0 compliant - Redfish compliant - Dedicated onboard RJ45 1 GbE management port
Security Support	- Intel Platform Firmware Resilience technology - Intel Software Guard Extensions - Intel Trusted Execution Technology - Trusted Platform Module 2.0 - Intel Total Memory Encryption - Chassis Intrusion Detection - Secure Boot - Secure Firmware Updates
BIOS	Unified Extensible Firmware Interface (UEFI)-based BIOS
OS	Ubuntu Server, RHEL, SLES and Windows Server



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