H261-3C0

High Density Server - DP 2U 4 Nodes Server









Features

- 2U 4 nodes with rear access to the node trays
- 2nd Gen. Intel® Xeon® Scalable Processors
- 6-Channel RDIMM/LRDIMM DDR4, 64 x DIMMs
- Supports Intel® Optane™ DC Persistent Memory
- 8 x 10Gb/s BASE-T LAN ports (Intel® X550-AT2)
- 4 x Dedicated management ports
- 1 x CMC global management port
- 12 x 3.5" SAS/SATA hot-swap HDD/SSD bays
- 8 x Low profile PCIe Gen3 expansion slots
- · 4 x OCP Gen3 x16 mezzanine slots
- Aspeed® AST2500 remote management controller
- 2+0 2200W 80 PLUS Platinum power supply

Intel® Xeon® Scalable Family Processors

GIGABYTE's Intel® Xeon® Scalable Processor family servers are available in dual socket configurations, and are compatible with the full family of different SKUs (Bronze, Silver, Gold and Platinum) that are workload optimized to support different applications, from enterprise IT database, cloud and storage to the most high-demand HPC workloads.



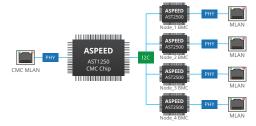
Intel® Optane™ DC Persistent Memory Ready

GIGABYTE's 2nd Gen. Intel® Xeon® Scalable family servers come ready to support Intel Optane DC Persistent Memory, a revolutionary new product that re-defines traditional memory & storage architectures by enabling a large persistent memory tier between DRAM and SSDs, that's higher capacity than DRAM and faster than SSDs, enabling the user to bring more data closer to the CPU for faster time for insight.



CMC for Chassis Management & Multi-Node Monitoring

GIGABYTE's H-Series Servers feature an Aspeed CMC (Central Management Controller) for chassis-level management and node-level monitoring (by connecting internally to Aspeed BMCs integrated on each node). This results only in one MLAN connection required to perform monitoring of all four nodes*, resulting in less ToR (Top of Rack) cabling and switch connections.



GIGABYTE Management Console (AMI MegaRAC SP-X)

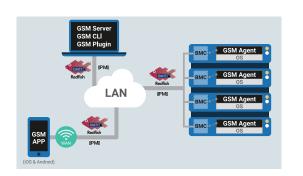
This GIGABYTE server product utilizes a AMI MegaRAC SP-X platform for BMC server management, with a feature rich and easy to use browser-based graphical user interface.

- RESTful API support (including the latest DMTF standards of Redfish) allows the administrator to integrate with 3rd party applications for server management
- HTML5-based iKVM remote management client included as a standard feature, no additional add-on license required to purchase
- Detailed FRU information from SMBIOS
- Pre-event automatic video recording feature from 10 to 30 seconds
- · SAS / RAID controller monitoring feature

GIGABYTE Server Management (GSM)

GIGABYTE Server Management (GSM) is GIGABYTE's proprietary multiple server remote management software platform, available as a free download from each GIGABYTE server product page. GSM is compatible with either IPMI or Redfish (RESTful API) connection interfaces, and comprises the following sub-programs:

• GSM Server • GSM CLI • GSM Agent • GSM Mobile • GSM Plugin



Specification

2U 4 Nodes - Rear access **Dimensions Power Supply** 2+0 2200W 80 PLUS Platinum power supply (WxHxD) 440 x 87 x 820 AC Input: - 100-127V~/ 14A, 47-63Hz Motherboard MH61-HD3 - 200-240V~/ 12.6A, 47-63Hz CPU 2nd Gen. Intel® Xeon® Scalable and Intel® Xeon® Scalable Processors DC Output: Intel® Xeon® Platinum Processor, Intel® Xeon® Gold Processor, - Max 1200W/ 100-127V~ Intel® Xeon® Silver Processor and Intel® Xeon® Bronze Processor +12.12V/95.6A CPU TDP up to 165W +12Vsb/ 3.5A NOTE: If only 1 CPU is installed, some PCIe or memory functions - Max 2200W/ 200-240V might be unavailable +12.12V/ 178.1A +12Vsb/ 3.5A Per node: 2 x LGA 3647 / Total: 8 x LGA 3647 Socket Socket P NOTE: * The system power supply requires C19 type power cord * 2000W 80 PLUS Titanium PSU as an option Chipset Intel® C621 Express Chipset Aspeed® AST2500 management controller System Per node: 16 x DIMM slots / Total: 64 x DIMM slots Memory Management GIGABYTE Management Console (AMI MegaRAC SP-X) DDR4 memory supported only Dashboard 6-channel memory per processor architecture JAVA Based Serial Over LAN RDIMM modules up to 64GB supported HTML5 KVM LRDIMM modules up to 128GB supported Sensor Monitor (Voltage, RPM, Temperature, CPU Status ...etc.) Supports Intel® Optane™ DC Persistent Memory (DCPMM) 1.2V modules: 2933 (1DPC)/2666/2400/2133 MHz Sensor Reading History Data FRU Information NOTE: 1. 2933MHz for 2nd Generation Intel® Xeon® Scalable Processors only 2. Intel® Optane™ DC Persistent Memory for 2nd Generation Intel® SEL Log in Linear Storage / Circular Storage Policy Hardware Inventory Xeon® Scalable Processors only
3. The maximum number of DCPMM that can be installed is based on Fan Profile a maximum operating (ambient) temperature of 35°C

4. To enquire about installing a greater number of DCPMM, please consult with your GIGABYTE technical or sales representative System Firewall Power Consumption Power Control LDAP / AD / RADIUS Support LAN Per node: 2 x 10Gb/s BASE-T LAN ports (Intel® X550-AT2) Backup & Restore Configuration 1 x Dedicated management port Remote BIOS/BMC/CPLD Update Total: 8 x 10Gb/s BASE-T LAN ports (Intel® X550-AT2) **Event Log Filter** 4 x Dedicated management ports User Management 1 x 10/100/1000 *CMC global management port Media Redirection Settings *CMC: Chassis Management Controller, to monitor all status of computing nodes **PAM Order Settings** Omni-Path is supported in option SSL Settings **SMTP Settings** Video Integrated in Aspeed® AST2500 2D Video Graphic Adapter with PCIe bus interface os For Cascade Lake processors: 1920x1200@60Hz 32bpp, DDR4 SDRAM Compatibility Windows Server 2012 R2 with Update Management chip in CMC board: Integrated in Aspeed® AST1250 Windows Server 2016 Windows Server 2019 Per node: 3 x 3.5" SATA/SAS hot-swappable HDD/SSD bays Storage Red Hat Enterprise Linux 7.6 (x64) or later Onboard SATA DOM support (PIN_7, PIN_8 or external cable) Red Hat Enterprise Linux 8.0 (x64) or later Total: 12 x 3.5" SATA/SAS hot-swappable HDD/SSD bays SUSE Linux Enterprise Server 12.3 (x64) or later 2.5" HDD/SSD supported SUSE Linux Enterprise Server 15 (x64) or later SAS card is required for SAS devices support Ubuntu 18.04 LTS (x64) or later VMware ESXi 6.0 Update3 or later RAID Intel® SATA BAID 0/1/5 VMware ESXi 6.5 Update2 or later VMware ESXi 6.7 Update1 or later Expansion Per node: 1 x Half-length low-profile slot with PCIe x16 (Gen3 x16) Citrix Xenserver 7.1.0 CU2 or later Slots 1 x Half-length low-profile slot with PCIe x8 (Gen3 x8) Citrix Xenserver 7.5.0 or later 1 x OCP mezzanine slot with PCIe Gen3 x16 Citrix Hypervisor 8.0.0 or later Total: 4 x Half-length low-profile slot with PCle x16 (Gen3 x16) 4 x Half-length low-profile slot with PCle x8 (Gen3 x8) Weight 35 kg (full packaging) 4 x OCP mezzanine slot with PCIe Gen3 x16 System Fans 4 x 80x80x38mm (16,300rpm) Internal I/O Per node: 1 x COM header, 1 x TPM header, 1 x BMC SGPIO header, 1 x JTAG BMC header, 1 x PLD header, Operating Operating temperature: 10°C to 35°C 1 x Clear CMOS jumper, 1 x IPMB connector, 1 x Buzzer **Properties** Operating humidity: 8%-80% (non-condensing) Non-operating temperature: -40°C to 60°C Front I/O Per node: 1 x Power button with LED, 1 x ID button with LED, Non-operating humidity: 20%-95% (non-condensing) 1 x Status LED Total: 4 x Power button with LED, 4 x ID button with LED, 1 x H261-3C0. 8 x CPU heatsinks **Packaging** 4 x Status LED, 1 x CMC status LED Content 1 x Rail Kit, 8 x Non-Fabric CPU carrier Rear I/O Per node: 2 x USB 3.0, 1 x VGA, 2 x RJ45, 1 x RJ45 MLAN, Part Numbers Barebone package: 6NH2613C0MR-00 1 x ID LED - Motherboard: 9MH61HD3NR-00 Total: 8 x USB 3.0, 4 x VGA, 8 x RJ45, 4 x RJ45 MLAN, - Rail kit: 25HB2-NJ2102-N1R 4 x ID LEDs, 1 x CMC global management port - CPU heatsink: 25ST1-253203-F2R/25ST1-253204-F2R - Back plane board: 9CBPH0C1NR-00 Backplane I/O 12 x ports - Power Supply: 25EP0-222001-D0S 12Gb/s & 6Gb/s compatible - C19 type power cord 125V/15A (US): 25CP1-018000-Q0R (in option) - C19 type power cord 250V/16A (EU): 25CP3-01830H-Q0R (in option) TPM 1 x TPM header with LPC interface - C19 type power cord 250V/15A (US): 25CP1-018300-Q0R (in option) Optional TPM2.0 kit: CTM000 - Ring topology kit: 6NH23NR48SR-00 (in option)

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^{*} All specifications are subject to change without notice. Please visit our website for the latest information.