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# R5300 G5 Rack Server Highlight

ZTE

R5300 G5 is a new-generation 2U2 socket general rack server, which supports 2 Intel ® Xeon ® 4/5 generation scalable processor (Eagle Stream). R5300 G5 uses a high-density, modular, and streamline design. It features high capability, large capacity, high reliability, easy expansion, and easy management, which is widely applicable to interconnection, network, cloud computing, big data, and virtualization.

## 1. High Density, High Performance

- Supports two Intel 4th/5th Generation of Intel® Xeon® Scalable Processors (Eagle Stream) with a single processor of up to 64cores.
- Provides dual CPUs for high-speed interconnection. Up to 4 UPIs for fast channel interconnection. The transmission rate can reach 20GT/s.
- Provides 32 DDR5 memory slots, with a maximum rate of 5,600MT/s
- Provides high-speed I/O performance, and supports high-performance NVMe SSD.

## 2. High Scalability, High Bandwidth

- Provides a maximum of 45 2.5" slots or 20 3.5" slots + 4 2.5" slots to meet the requirements for large-capacity storage.
- Supports a maximum of 34 NVMe SSDs, a maximum of 40 E1.S[1], and a maximum of 40 E3.S[1], provides high-speed I/O interfaces, and solves the bottleneck of slow hard disk access in traditional solutions.
- Provides multiple storage combinations and RAID card configuration options to flexibly configure local storage in accordance with service requirements.
- Provides the powerful expansion capability, and supports up to 20 PCIe 5.0 expansion slots.

Provides powerful computing capabilities and supports four high-performance GPUs.

## 3. High Availability, High Reliability

- The good heat dissipation design improves system reliability, and effectively extends the life of components and reduces costs.

- The hard disks, power supplies, and fans support hot swapping, improving the availability of the system.

- Supports RAID 0, 1, 5, 6, 10, 50, 60, supports power-off protection, and provides multiple data protection solutions for users.

- Power modules support 1+1 redundancy, and fans support N+1 redundancy, improving system reliability.

- Supports TPM/TCM.

## 4. Convenient Management, Easy Maintenance

- Provides the intelligent management platform, implementing out-of-band monitoring of resources such as CPUs, memories, hard disks, fans, power supplies, and networks.

- Supports standard interfaces such as IPMI, SNMP, and Redfish, so that the platform can be integrated with third-party management systems.

- Supports automatic deployment, firmware upgrade, and remote operations to improve deployment and O&M efficiency.

- Provides powerful the KVM function.

## 5. Green, Energy Saving, Environment Protection

- Uses the 80PLUS high-efficiency platinum/titanium power supply, and the maximum power is supported.

- Supports high-voltage DC and low-voltage DC technologies to improve energy utilization.

- Intelligent rotation speed adjustment and silence design

- Supports a mature liquid cooling solution to meet the heat dissipation requirements of CPUs on the Intel EagleStream platform.

- Lead-free design and environmental protection

## 6. Technical Specifications

| Specification | R5300 G5 Rack Server |
|---|---|
| **Feature** | |
| Form | 2U rack server |
| Processor | Supports 1/2 Intel® Xeon® 4th/5th-generation scalable processors |
| Chipset | Intel C741 |
| Memory | Supports 32 DDR5 memory slots with a maximum rate of 5,600MT/s |
| Interconnection bus | Provides 4 UPI interconnection links. The maximum rate of a single link is 20GT/s.<br>Provides x8 DMI high-speed channels. |
| Hard disk controller | Supports RAID 0/1/5/6/10/50/60 and power-off protection |
| Local storage | Provides a maximum of 45 2.5" slots or 20 3.5" slots + 4 2.5" slots<br>Supports a maximum of 34 NVMe SSDs<br>Supports a maximum of 40 E1.S[1], and a maximum of 40 E3.S[1] |
| **I/O module** | |
| Network resources | Supports two OCP3.0 interfaces, supports PCIE5.0 x 8, and 2 PCIE5.0 x16 can be expanded optionally , and supports MultiHost optionally |
| PCIe slots | Supporting up to 20 PCIe expansion slots:<br>2 OCP dedicated slots, 18 PCIe standard slots |
| External equipment interface | Five USB interfaces (two rear USB3.0 interfaces, one front USB3.0 interface, one internal USB2.0 interface, one front USB2.0 interface)<br>Two VGA interfaces (one for front end and one back for end)<br>One serial port |
| Equipment management interface | 1 independent GE management network interface |
| Display | Integrated display cards, supporting the optional configuration of PCIe standard display cards |
| **OS** | |
| Compatible OS | Compatible with mainstream server operating systems:<br>Microsoft Windows Sever、 Red Hat Enterprise Linux、 SUSE Enterprise Linux 、Vmware ESXi、Ubuntu |
| **Physical Features** | |
| Power | Supports 1+1 hot/swappable redundant power supplies.<br>(Optional)550W/800W/1200W/1600W/2000W/2700W,high-efficiency platinum/titanium power supply<br>Supports 110V/220V AC, 240V/336V high-voltage DC, and-48V DC. |

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|---|---|
| Fan | Four groups of high-efficiency fans, N+1 redundancy, and intelligent heat dissipation system |
| Environmental conditions | Operating temperature: +5 ºC to +45 ºC (depending on the configuration, refer to the technical document for details)<br>Storage temperature:-40 ºC to +65 ºC<br>Operating humidity: 8% – 90% RH, no condensation<br>Transportation and storage humidity: 5% – 95% RH, no condensation<br>Altitude: ≤ 3,000m. When the altitude is 900m higher, the operating temperature is reduced by 1° C for every 300m higher. If the altitude is more than 3,000m, you cannot configure mechanical hard disks. |
| Size | 432mm x 87.6mm x 780mm (W x H x D), excluding flanges and guide rails<br>Standard 19-inch rack (>=1m deep) |
| Weight with full configuration | The equipment with the maximum configuration is about 40kg (excluding guide rails) |
| Certificate | CE, CCC, Energy Star... |

Note: [1]Planned product specifications. For details, refer to the product manual.

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