

# FusionServer 5288 V7 Rack Server

Ultra-large Storage, High Reliability and Security,  
Efficient Energy Saving, Intelligent O&M





## Introduction



Front backplane of  
the 5288 V7

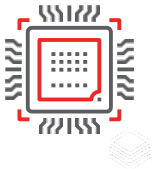


Rear backplane of the  
5288 V7 storage model

The FusionServer 5288 V7 (5288 V7) is a new-generation 4U 2-socket rack server designed for the Internet, Internet Data Center (IDC), cloud computing, enterprise business, and telecom. It is also ideal for IT core services, virtualization, high-performance computing, distributed storage, big data processing, and other complex workloads. The 5288 V7 features low power consumption, high scalability and reliability, easy deployment, and simplified management.

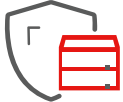


## Features



### Ultra-large Storage

- Ultra-large Storage, 44 x 3.5-inch drives + 4 x NVMe U.2 SSDs
- Supreme Computing Power, Up to 350 W CPUs and 32 x DDR5 DIMMs provide strong computing power, based on Intel's latest Sapphire Rapids CPU.
- Flexible Configuration, Up to 10 x standard PCIe expansion slots



### High Reliability and Security

- Heat pipe based remote heat dissipation technology ensures better temperature adaptation, providing 50% better heat dissipation capability than a single heat sink.
- The innovative AI memory fault self-healing ensures stable system running and reduces system downtime by 66%.
- RoT-based secure boot ensures security everywhere.



### Efficient Energy Saving

- Unique algorithm for the lowest power consumption of fans and CPUs: Ensures 5% to 10% lower server power consumption than the industry average.
- Industry-leading power supply technology for higher efficiency: Three core technologies improve power and efficiency, enabling the industry-leading power conversion rate and the power loss 12.5% lower than the industry average.
- Intelligent service awareness and dynamic load adjustment: Dynamically adjusts the CPU working frequency based on the actual service load.



### Intelligent O&M

- Automatic version push and upgrades can be completed without onsite attendance, improving upgrade efficiency by 20 times.
- 75% streamlined deployment steps are performed by tools, improving deployment efficiency by 10 times.
- Takeover of all vendors' servers, automatic asset location identification, and real-time tracking are supported, achieving 100% stocktaking accuracy.

## Technical Specifications

<b>Form Factor</b>	4U rack server
<b>Processor</b>	1 or 2 x 4rd Gen Intel® Xeon® Scalable processors (Sapphire Rapids) with TDP up to 350 W per processor
<b>Chipset</b>	Emmitsburg PCH
<b>Memory</b>	32 x DDR5 DIMMs, at 4800 MT/s
<b>Local Storage</b>	<p>Hot-swappable drive configurations:</p> <ul style="list-style-type: none"> <li>• 8 to 48 x 2.5" SAS/SATA drives/SSDs</li> <li>• 24 to 44 x 3.5" SAS/SATA drives</li> <li>• 8 x NVMe SSDs</li> <li>• Support E1.s or E3.s SSDs*</li> </ul> <p>Flash storage:</p> <ul style="list-style-type: none"> <li>• 2 x M.2 SSDs</li> </ul>
<b>RAID</b>	RAID 0, 1, 10, 1E, 5, 50, 6, or 60; optional supercapacitor for cache data power failure protection, RAID level migration, drive roaming, self-diagnosis, and remote web-based configuration
<b>Network</b>	<p>Expansion capability for multiple types of networks</p> <p>OCP 3.0 NICs are supported. The two FlexIO card slots support two OCP 3.0 NICs, which can be configured as required. Hot swap and PCIe 5.0 is supported.</p>
<b>PCIe Expansion</b>	Up to 10 x PCIe slots, including 2 x FlexIO slots dedicated for OCP 3.0 NICs and 10 x PCIe expansion slots, PCIe 5.0 is supported.
<b>GPU Card</b>	10 x single-width GPU accelerator cards
<b>Fan Module</b>	6 or 8 x hot-swappable counter-rotating fans in N+1 redundancy
<b>Power Supply</b>	<p>2 x hot-swappable PSUs in 1+1 redundancy mode. Supported options include:</p> <ul style="list-style-type: none"> <li>• 900 W AC Platinum/Titanium PSUs (input: 100 V to 240 V AC, or 192 V to 288 V DC)</li> <li>• 1500 W AC Platinum PSUs</li> <li>1000 W (input: 100 V to 127 V AC)</li> <li>1500 W (input: 200 V to 240 V AC, or 192 V to 288 V DC)</li> <li>• 1500 W 380 V HVDC PSUs (input: 260 V to 400 V DC)</li> <li>• 1200 W –48 V to –60 V DC PSUs (input: –38.4 V to –72 V DC)</li> <li>• 3000 W AC Titanium PSUs</li> <li>2500 W (input: 200 V to 220 V AC)</li> <li>2900 W (input: 220 V to 230 V AC)</li> <li>3000 W (input: 230 to 240 V AC)</li> <li>• 2000 W AC Platinum PSUs</li> <li>1800 W (input: 200 V to 220 V AC, or 192 V to 200 V DC)</li> <li>2000 W (input: 220 V to 240 V AC, or 200 V to 288 V DC)</li> </ul>
<b>Management</b>	<p>The iBMC chip integrates one dedicated management GE network port, providing comprehensive management features such as fault diagnosis, automatic O&amp;M, and hardware security hardening.</p> <ul style="list-style-type: none"> <li>• The iBMC supports standard interfaces such as Redfish, SNMP, and IPMI 2.0, provides a remote management interface based on HTML5/VNC KVM, and supports out-of-band management functions such as monitoring, diagnosis, configuration, Agentless, and remote control for simplified management.</li> <li>• It is optional to configure the FusionDirector management software that provides advanced management features such as five intelligent technologies and realizes intelligent, automated, visualized, and refined management throughout the lifecycle.</li> </ul>
<b>OS</b>	FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, CentOS, Oracle, Ubuntu, Debian, and openEuler
<b>Security</b>	Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security panel, secure boot, and chassis cover opening detection
<b>Operating Temperature</b>	5°C to 35°C (41°F to 95°F), compliant with ASHRAE Classes A1, A2, A3, and A4
<b>Certification</b>	CE, UL, CCC, FCC, VCCI, and RoHS
<b>Installation Suite</b>	L-shaped guide rails, adjustable guide rails, and holding rails
<b>Dimensions (H x W x D)</b>	Chassis with 3.5" drives: 175 mm × 447 mm × 798 mm (6.89 in. x 17.60 in. x 31.42 in.)



**xFusion Digital Technologies Co., Ltd.**

**Consulting telephone:** 400-080-6888

**Technical hotline:** 400-009-8999

**Address:** 9th Floor, Building 1, Zensun Boya Square, Longzihu Wisdom Island,  
Zhengdong New District, Zhengzhou, Henan Province

**Website:** [www.xfusion.com](http://www.xfusion.com)



**Copyrights © xFusion Digital Technologies Co., Ltd 2022. All rights reserved.**

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of xFusion Digital Technologies Co., Ltd.

**Trademarks and Permissions**

αFUSION and other xFusion trademarks are trademarks of xFusion Digital Technologies Co., Ltd. All other trademarks and trade names mentioned in this document are the property of their respective holders.

**Notice**

In this document, "xFusion" is used to refer to "xFusion Digital Technologies Co., Ltd." for concise description and easy understanding, which does not mean that "xFusion" may have any other meaning. Any "xFusion" mentioned or described hereof may not be understood as any meaning other than "xFusion Digital Technologies Co., Ltd.", and xFusion Digital Technology Co., Ltd. shall not bear any liability resulting from the use of "xFusion".

The purchased products, services and features are stipulated by the contract made between xFusion and the customer. All or part of the products, services and features described in this document may not be within the purchase scope or the usage scope. Unless otherwise specified in the contract, all statements, information, and recommendations in this document are provided "AS IS" without warranties, guarantees or representations of any kind, either express or implied. The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.