

# Huawei FusionServer Pro V5 Rack Server

Bring Pervasive Intelligent Computing  
with Chip Innovation



## | High-Density Deployment with Lower OPEX |



1288H V5 (4-drive)



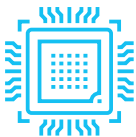
1288H V5 (8-drive)



1288H V5 (10-drive)

- 2 Intel® Xeon® Scalable processors in 1U space, with 24 DDR4 DIMMs
- Up to 4 3.5-inch or 10 2.5-inch hard drives for local storage, or 4/8 NVMe SSDs
- 2 10GE and 2 GE LAN on motherboard (LOM) ports, and 5 PCIe expansion slots
- Leverages intelligent energy saving to improve performance per watt by 15%; combines intelligent management features to enable up to 93% accuracy for fault locating

Delivers high computing density, which is especially suitable for scenarios such as virtualization, high-performance computing (HPC), and big data analytics.



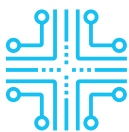
### Superior Performance, Ultra-high Density

- Supports 2 Intel® Xeon® Scalable Processors in a 1U space. Its Ultra Path Interconnect (UPI) bus supports rates of up to 10.4 GT/s, and a single CPU supports up to 28 cores. The server supports the Intel® Turbo Boost, hyper-threading, and Advanced Vector Extensions (AVX-512). A single processor delivers up to 40% higher compute power than the previous-generation processor.
- Supports 24 DDR4 DIMMs with a memory capacity of up to 3 TB (configured with 128 GB DIMMs) to meet large-capacity memory application requirements.
- Supports 12 DCPMMs as volatile or non-volatile storage, which can be used together with 12 DDR4 DIMMs, offering up to 7.5 TB memory capacity (configured with 512 GB DCPMMs and 128 GB DDR4 DIMMs) to meet various workload requirements.
- Supports heterogeneous computing acceleration, configurable with 2 single-slot half-height half-length (HHHL) GPU or FPGA accelerator cards.
- Supports two GE and two 10GE LAN on motherboard (LOM) ports, meeting networking requirements of 98% scenarios with streamlined configuration.



### Smart Power Saving and Better Energy Efficiency

- Leverages patented Dynamic Energy Management Technology (DEMT), and multiple power-saving measures such as component hibernation, proportional-integral-derivative (PID) algorithm based fan speed tuning, and active-standby power supplies, driving down overall equipment power consumption by up to 15% without compromising workload performance.
- Supports 80 Plus® Titanium power supply units (PSUs), with up to 96% conversion efficiency and compliant with ENERGY STAR and China Environmental Labelling.
- Supports 550 W, 900 W, 1,200 W, and 1,500 W PSU options, flexibly adapting to different power requirements. The 1,200 W and 1,500 W PSUs support DC and high-voltage DC (HVDC) technologies, enabling better energy utilization.



### Unmatched Intelligent Manageability, Integration, and Openness

- Uses patented intelligent Fault Diagnosis & Management (FDM) technology, delivering up to 93% accuracy in diagnosing core component faults.
- Integrates eSight for smart entire-lifecycle O&M, boosting deployment and O&M efficiency.
  - » Supports batch OS installation, slashing the average OS installation time of each server from hours to minutes.
  - » Supports automated firmware upgrade, with flexible and configurable upgrade policies for different components and drivers.
  - » Supports stateless computing, allowing for rapid replication of live-network configuration and swift failover.
- Integrates fault diagnosis LEDs on the front panel to display error codes in real time, enabling maintenance personnel to rapidly locate a fault.
- Provides standardized open interfaces and development guides, facilitating seamless integration with third-party management software.

# Huawei FusionServer Pro 1288H V5 Server



Form factor	1U rack server
Processors	1 or 2 1st Generation Intel® Xeon® Scalable processors (3100/4100/5100/6100/8100 series), up to 205 W 1 or 2 2nd Generation Intel® Xeon® Scalable processors (3200/4200/5200/6200/8200 series), up to 205 W
Chipset platform	Intel C622
Memory	24 DDR4 DIMM slots, 2933 MT/s; up to 12 DCPMMs, 2666 MT/s
Internal storage	Supports hot-swappable hard drives with the following configuration options: <ul style="list-style-type: none"> <li>• 10 x 2.5-inch hard drives (6–8 NVMe SSDs and 2–4 SAS/SATA drives, with a total number of 10 or less)</li> <li>• 10 x 2.5-inch SAS/SATA/SSDs (2–4 NVMe SSDs and 6–8 SAS/SATA HDDs, with a total number of 10 or less)</li> <li>• 10 x 2.5-inch SAS/SATA/SSDs</li> <li>• 8 x 2.5-inch SAS/SATA hard drives</li> <li>• 4 x 3.5-inch SAS/SATA hard drives</li> </ul> Flash storage: <ul style="list-style-type: none"> <li>• 2 M.2 SSDs</li> </ul>
RAID support	<ul style="list-style-type: none"> <li>• RAID 0, 1, 10, 5, 50, 6, or 60</li> <li>• Configured with a supercapacitor for cache power-off protection</li> <li>• Supports RAID level migration, drive roaming, self-diagnosis, and web-based remote configuration</li> </ul>
Network ports	LOM: 2 x 10GE + 2 x GE ports Flexible NIC: 2 x GE, 4 x GE, 2 x 10GE, 2 x 25GE, or 1/2 x 56G FDR IB ports
PCIe expansion	Up to 5 PCIe 3.0 slots, including 1 for a RAID controller card and 1 for a flexible NIC
Heterogeneous accelerator cards	2 single-slot HHHH GPU or FPGA heterogeneous accelerator cards For details, visit <a href="http://support.huawei.com/online/toolsweb/ftca/indexEn?serie=2">http://support.huawei.com/online/toolsweb/ftca/indexEn?serie=2</a> .
Fan modules	7 hot-swappable counter-rotating fan modules with support for N+1 redundancy
Power supply units	2 hot-swappable PSUs with support for 1+1 redundancy and the following configuration options (Note 1): <ul style="list-style-type: none"> <li>• 550 W AC Platinum PSUs (input: 100 V to 240 V AC, or 192 V to 288 V DC)</li> <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 1000 W (input: 100 V to 127 V AC) 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> </ul>
Management	<ul style="list-style-type: none"> <li>• Huawei iBMC integrates one dedicated management GE network port to provide comprehensive management features such as fault diagnosis, automated O&amp;M, and hardware security hardening.</li> <li>• iBMC supports standard interfaces such as Redfish, SNMP, and IPMI 2.0; provides a remote management interface based on HTML5/VNC KVM; supports CD-free deployment and the Agentless feature, simplifying management.</li> <li>• (Optional) Configured with the Huawei eSight management software to provide advanced management features such as stateless computing, batch OS deployment, and automated firmware upgrade, enabling smart and automatic entire-lifecycle management.</li> </ul>
Operating Systems	Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, CentOS, Citrix XenServer, VMware ESXi For details, visit <a href="http://support.huawei.com/online/toolsweb/ftca/indexEn?serie=2">http://support.huawei.com/online/toolsweb/ftca/indexEn?serie=2</a> .
Security	<ul style="list-style-type: none"> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Trusted Platform Module (TPM)</li> <li>• Security front panel</li> </ul>
Operating temperature	5°C to 45°C (41°F to 113°F), compliant with ASHRAE A3 and A4
Certification	CE, UL, FCC, CCC, and RoHS
Installation suite	L-shaped guide rails, adjustable guide rails, and holding rails
Dimensions (H x W x D)	Chassis with 3.5-inch hard drives: 43 mm x 447 mm x 748 mm (1.70 in. x 17.60 in. x 29.45 in.) Chassis with 2.5-inch hard drives: 43 mm x 447 mm x 708 mm (1.70 in. x 17.60 in. x 27.87 in.)

Remarks:

Note 1: The Titanium PSU is planned for release in Q2 2019.

\*Last update: April 24, 2019

## For more information

To learn more about Huawei servers, contact Huawei sales representatives or business partners, or visit:

<http://e.huawei.com/en/products/cloud-computing-dc/servers>



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## | Flexible Configurations for Diverse Workloads |



2288 V5  
(8-drive)



2288H V5  
(8-drive)



2288/2288H V5  
(12-drive)



2288/2288H V5  
(25-drive)

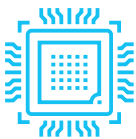


2288H V5  
(24-drive)

The Huawei FusionServer Pro 2288/2288H V5 is a 2U 2-socket rack server that supports various configurations and can be widely used in scenarios such as cloud computing virtualization, databases, and big data. The server can be configured with two Intel® Xeon® Scalable processors, 16/24<sup>1</sup> DDR4 DIMM slots, 8/10<sup>2</sup> PCIe slots, and large-capacity local storage resources.

It incorporates patented technologies such as Dynamic Energy Management Technology (DEMT) and Fault Diagnosis & Management (FDM), and integrates Huawei's eSight software for entire-lifecycle management, helping customers drive down OPEX and improve ROI.

<sup>1</sup> The 2288 V5 supports 16 DIMM slots, and the 2288H V5 supports 24. <sup>2</sup> The 2288 V5 supports 8 PCIe slots, and the 2288H V5 supports 10.



### Supreme Performance with Flexible Configurations

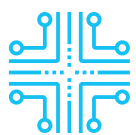
- Supports 2 Intel® Xeon® Scalable processors in a 2U space, with an Ultra Path Interconnect (UPI) bus speed of up to 10.4 GT/s. Each CPU supports up to 20/28<sup>3</sup> cores. The server supports the Intel® Turbo Boost, hyper-threading, and Advanced Vector Extensions (AVX-512). A single processor delivers up to 40% higher compute power than its predecessor.
- The 2288 V5 supports 16 DDR4 DIMMs with a memory capacity of up to 2 TB (configured with 128 GB DIMMs) to meet large-capacity memory application requirements.
- The 2288H V5 supports 24 DDR4 DIMMs with a memory capacity of up to 3 TB (configured with 128 GB DIMMs) to meet large-capacity memory application requirements.
- The 2288H V5 supports 12 DCPMMs as volatile or non-volatile storage, which can be used together with 12 DDR4 DIMMs, offering up to 7.5 TB memory capacity (configured with 512 GB DCPMMs and 128 GB DDR4 DIMMs) to meet various workload requirements.
- The 2288H V5 supports heterogeneous computing acceleration. It can be configured with two dual-slot full-height full-length GPU or FPGA accelerator cards.
- The 2288 V5 supports 16 x 3.5-inch or 27 x 2.5-inch local storage drives. The 2288H V5 supports 20 x 3.5-inch or 31 x 2.5-inch (4/8/12/24/28 NVMe SSDs) local storage drives.
- The 2288 V5 supports 2 GE LOM ports. The 2288H V5 supports 2 GE and 2 x 10GE LOM ports, meeting the networking requirements of 98% scenarios with streamlined configuration.

<sup>3</sup> For the 2288 V5, a single CPU supports up to 20 computing cores. For the 2288H V5, a single CPU supports up to 28 computing cores.



### Smart Power Saving and Better Energy Efficiency

- Leverages patented Dynamic Energy Management Technology (DEMT), and multiple power-saving measures such as component hibernation, proportional-integral-derivative (PID) algorithm based fan speed tuning, and active-standby power supplies, driving down overall equipment power consumption by up to 15% without compromising workload performance.
- Supports 80 Plus® Titanium power supply units (PSUs), with up to 96% conversion efficiency and compliant with ENERGY STAR and China Environmental Labelling.
- Supports 550 W, 900 W, 1,200 W, and 1,500 W PSU options, flexibly adapting to different power requirements. The 1,200 W and 1,500 W PSUs support DC and high-voltage DC (HVDC) technologies, enabling better energy utilization.



### Unmatched Intelligent Manageability, Integration, and Openness

- Uses patented intelligent Fault Diagnosis & Management (FDM) technology, delivering up to 93% accuracy in diagnosing core component faults.
- Integrates eSight for smart entire-lifecycle O&M, boosting deployment and O&M efficiency.
  - » Supports batch OS installation, slashing the average OS installation time of each server from hours to minutes.
  - » Supports automated firmware upgrade, with flexible and configurable upgrade policies for different components and drivers.
  - » Supports stateless computing, allowing for rapid replication of live-network configuration and swift failover.
- Integrates a touchscreen LCD panel for fault diagnosis, allowing O&M personnel to quickly locate faults (supported only by the 2288H V5 8-drive models).
- Provides standardized open interfaces and development guides, facilitating seamless integration with third-party management software.

# Huawei FusionServer Pro 2288/2288H V5 Server



	2288 V5	2288H V5
<b>Form factor</b>	2U rack server	
<b>Processors</b>	1 or 2 1st Generation Intel® Xeon® Scalable processors (3100/4100/5100/6100/8100 series), up to 125 W 1 or 2 2nd Generation Intel® Xeon® Scalable processors (3200/4200/5200/6200/8200 series), up to 125 W	1 or 2 1st Generation Intel® Xeon® Scalable processors (3100/4100/5100/6100/8100 series), up to 205 W 1 or 2 2nd Generation Intel® Xeon® Scalable processors (3200/4200/5200/6200/8200 series), up to 205 W
<b>Chipset platform</b>	Intel C621	
<b>Memory</b>	16 DDR4 DIMM slots, up to 2,933 MT/s	
<b>Internal storage</b>	Supports hot-swappable hard drives with the following configuration options: <ul style="list-style-type: none"> <li>8 x 2.5-inch SAS/SATA HDDs or SSDs</li> <li>12/16 x 3.5-inch SAS/SATA HDDs</li> <li>27 x 2.5-inch SAS/SATA HDDs or SSDs</li> </ul> NVMe SSD card: <ul style="list-style-type: none"> <li>4 x NVMe SSD cards</li> </ul> Flash storage: <ul style="list-style-type: none"> <li>2 M.2 SSDs</li> </ul>	Supports hot-swappable hard drives with the following configuration options: <ul style="list-style-type: none"> <li>8 x 2.5-inch SAS/SATA hard drives</li> <li>12/16/20 x 3.5-inch SAS/SATA hard drives</li> <li>4, 8, 12, 24, or 28 NVMe SSDs</li> <li>31 x 2.5-inch SAS/SATA hard drives</li> </ul> Flash storage: <ul style="list-style-type: none"> <li>2 M.2 SSDs</li> </ul>
<b>RAID support</b>	<ul style="list-style-type: none"> <li>RAID 0, 1, 10, 1E, 5, 50, 6, or 60</li> <li>Configured with a supercapacitor for cache power-off protection</li> <li>Supports RAID level migration, drive roaming, self-diagnosis, and web-based remote configuration</li> </ul>	
<b>Network ports</b>	LOM: 2 GE ports Flexible NIC: 2 x GE, 4 x GE, 2 x 10GE, or 1/2 x 56G FDR IB ports	LOM: 2 x 10GE + 2 x GE ports Flexible NIC: 2 x GE, 4 x GE, 2 x 10GE, 2 x 25GE, or 1/2 x 56G FDR IB ports
<b>PCIe expansion</b>	Up to 8 PCIe 3.0 slots, including 1 for a RAID controller card and 1 for a flexible NIC.	
<b>Heterogeneous accelerator cards</b>	/	
<b>Fan modules</b>	4 hot-swappable counter-rotating fan modules with support for N+1 redundancy	
<b>Power supply units</b>	2 hot-swappable PSUs with support for 1+1 redundancy and the following configuration options: <ul style="list-style-type: none"> <li>550 W AC Platinum PSUs (input: 100 V to 240 V AC, or 192 V to 288 V DC)</li> <li>900 W AC Platinum PSUs (input: 100 V to 240 V AC, or 192 V to 288 V DC)</li> <li>1500 W AC Platinum PSUs 1000 W (input: 100 V to 127 V AC) 1500 W (input: 200 V to 240 V AC, or 192 V to 288 V DC)</li> </ul>	2 hot-swappable PSUs with support for 1+1 redundancy and the following configuration options (Note 1): <ul style="list-style-type: none"> <li>550 W AC Platinum PSUs (input: 100 V to 240 V AC, or 192 V to 288 V DC)</li> <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 1000 W (input: 100 V to 127 V AC) 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> </ul>
<b>Management</b>	<ul style="list-style-type: none"> <li>Huawei iBMC integrates one dedicated management GE network port to provide comprehensive management features such as fault diagnosis, automated O&amp;M, and hardware security hardening.</li> <li>iBMC supports standard interfaces such as Redfish, SNMP, and IPMI 2.0; provides a remote management interface based on HTML5/VNC KVM; supports CD-free deployment and the Agentless feature, simplifying management.</li> <li>(Optional) Configured with the Huawei eSight management software to provide advanced management features such as stateless computing, batch OS deployment, and automated firmware upgrade, enabling smart and automatic entire-lifecycle management.</li> </ul>	
<b>Operating Systems</b>	Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, CentOS, Citrix XenServer, VMware ESXi For details, visit <a href="http://support.huawei.com/onlinetoolsweb/ftca/indexEn?serie=2">http://support.huawei.com/onlinetoolsweb/ftca/indexEn?serie=2</a> .	
<b>Security</b>	Power-on password, Administrator password, Trusted Platform Module (TPM), Security front panel	
<b>Operating temperature</b>	5°C to 40°C (41°F to 104°F), compliant with ASHRAE A2 and A3	5°C to 45°C (41°F to 113°F), compliant with ASHRAE A3 and A4
<b>Certification</b>	CCC	CE, UL, FCC, CCC, 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-inch hard drives: 86.1 mm x 447 mm x 748 mm (3.39 in. x 29.45 in.) Chassis with 2.5-inch hard drives: 86.1 mm x 447 mm x 708 mm (3.39 in. x 27.87 in.)	

Remarks:

Note 1: The Titanium PSU is planned to release in Q2 2019.

\*Last update: April 24, 2019

## For more information

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<http://e.huawei.com/en/products/cloud-computing-dc/servers>



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# Huawei FusionServer Pro 2298 V5 Rack Server



2298 V5

## | Hybrid Storage Architecture, Tiered Data Storage |

Huawei FusionServer Pro 2298 V5 is a 2U 2-socket rack server. It is applicable to service requirements such as tiered deployment of hot, warm, and cold data and historical data archiving. With an efficient design, FusionServer Pro 2298 V5 provides flexible and ultra-large local storage expansion capabilities while delivering excellent computing performance, helping reduce data storage costs. In a 2U chassis space, 2298 V5 supports 2 Intel® Xeon® Scalable processors, 12 DDR4 DIMMs, and 24 3.5" and 4 2.5" (up to 4 NVMe SSDs) hard drives for local storage. It incorporates patented technologies such as Dynamic Energy Management Technology (DEMT) and Fault Diagnosis & Management (FDM), and integrates Huawei's eSight software for entire-lifecycle management, helping customers drive down operating expense (OPEX) and improve return on investment (ROI).



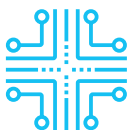
### Ultra-Large Capacity, Tiered Storage

- Fitted with 2 Intel® Xeon® Scalable processors in a 2U space, it supports an Ultra Path Interconnect (UPI) bus speed of up to 10.4 GT/s between processors. Each processor supports up to 28 compute cores. It also supports Intel® Turbo Boost, hyper-threading, and Advanced Vector Extensions (AVX-512), improving the computing performance of a single processor by up to 40% compared with that of the previous generation.
- Supports 12 DDR4 DIMMs, up to 2,933 MT/s, meeting large-capacity memory application requirements.
- Offers ultra-large storage space with 24 3.5" and 4 2.5" hard drives (up to 4 NVMe SSDs), ideal for tiered storage of hot, warm, and cold data.
- Supports 2 GE and 2 10GE LAN on motherboard (LOM) ports, meeting the network requirements of 98% application scenarios.



### Intelligent Power Saving and Optimal Energy Efficiency

- Leverages patented DEMT, and multiple power-saving measures such as component hibernation, fan speed tuning based on the proportional-integral-derivative (PID) algorithm, and active-standby power supplies, driving down overall equipment power consumption by up to 15% without compromising workload performance.
- Equipped with 80PLUS® Platinum power supply units (PSUs), it delivers up to 94% conversion efficiency. It complies with ENERGY STAR and has passed the China Environmental Labelling certification.
- Supports independent power-on/-off control for each of the 24 3.5" hard drives, implementing component-level precise energy efficiency management.
- Supports PSU options such as 900 W and 1,500 W, flexibly adapting to different power requirements and improving energy utilization.



### Intelligent Management, Integration, and Openness

- Uses patented FDM technology, delivering up to 93% accuracy in diagnosing core component faults.
- Integrates eSight for intelligent entire-lifecycle operation and maintenance (O&M), boosting deployment and O&M efficiency.
  - » Supports batch OS installation, slashing the average OS installation time of each server from hours to minutes.
  - » Supports automated firmware upgrade, with flexible and configurable upgrade policies for different components and drivers.
  - » Supports stateless computing, allowing for rapid replication of live-network configuration and swift failover.
- Provides standardized open interfaces and development guides, facilitating seamless integration with third-party management software.

# Huawei FusionServer Pro 2298 V5 Rack Server



2298 V5	
Form factor	2U rack server
Processors	1 or 2 1st Generation Intel® Xeon® Scalable processors (3100/4100/5100/6100/8100 series), up to 205 W 1 or 2 2nd Generation Intel® Xeon® Scalable processors (3200/4200/5200/6200/8200 series), up to 205 W
Chipset	Intel C622
Memory	12 DDR4 DIMM slots, up to 2,933 MT/s
Internal storage	Supports hot-swappable hard drives with the following configuration options: Front: <ul style="list-style-type: none"><li>• 24 x 3.5" SAS/SATA HDDs, hot-pluggable, power-on/-off on a per HDD basis</li></ul> Rear: <ul style="list-style-type: none"><li>• 4 x 2.5" SAS/SATA/NVMe hard drives, hot-pluggable</li></ul> Flash storage: <ul style="list-style-type: none"><li>• 2 M.2 SSDs</li></ul>
RAID support	4 rear SAS/SATA HDDs can be configured to support RAID 0, 1, 10, and 1E. RAID-level migration, disk roaming, self-diagnosis, and web-based remote configuration are supported.
Network ports	<ul style="list-style-type: none"><li>• LOM: 2 x 10GE + 2 x GE ports</li><li>• Flexible network interface card (NIC): 1 OCP2.0 standard NIC</li></ul>
PCIe expansion	Up to 5 PCIe 3.0 expansion slots, including 1 PCIe card slot dedicated for the RAID controller card and 1 slot for flexible OCP2.0 standard NIC
Fan modules	5 hot-swappable fan modules, with support for N+1 redundancy
Power supply units	2 hot-swappable PSUs, with support for 1+1 redundancy. Supported options include: <ul style="list-style-type: none"><li>• 900 W AC Platinum PSUs (input: 100 V to 240 V AC, or 192 V to 288 V DC)</li><li>• 1,500 W AC Platinum PSUs<ul style="list-style-type: none"><li>– 1,000 W (input: 100 V to 127 V AC)</li><li>– 1,500 W (input: 200 V to 240 V AC, or 192 V to 288 V DC)</li></ul></li></ul>
Management	<ul style="list-style-type: none"><li>• Huawei iBMC integrates one dedicated management GE network port to provide comprehensive management features such as fault diagnosis, automated O&amp;M, and hardware security hardening.</li><li>• iBMC supports standard interfaces such as Redfish, SNMP, and IPMI 2.0; provides a remote management interface based on HTML5/VNC KVM; supports CD-free deployment and the Agentless feature, simplifying management.</li><li>• (Optional) Configured with the Huawei eSight management software to provide advanced management features such as stateless computing, batch OS deployment, and automated firmware upgrade, enabling smart and automatic entire-lifecycle management.</li></ul>
Operating systems	Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, CentOS, Citrix XenServer, VMware ESXi, etc. For details, visit <a href="http://support.huawei.com/onlinetoolsweb/ftca/index?serise=2">http://support.huawei.com/onlinetoolsweb/ftca/index?serise=2</a> .
Security features	Power-on password, administrator password, Trusted Platform Module (TPM), and security front panel
Operating temperature	5°C to 35°C (41°F to 95°F), ASHRAE Class A3 compliant
Installation suite	L-shaped guide rails and adjustable guide rails
Dimensions (H x W x D)	Chassis dimensions: 86.1 mm x 447 mm x 890 mm (3.39 in. x 17.60 in. x 35.04 in.)

\*Last update: April 24, 2019

## For more information

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# Huawei FusionServer Pro 2488/2488H V5 Server

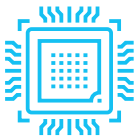


2488/2488H V5

## | New Option for Distributed Deployment with Higher Computing Efficiency |

- 4 Intel® Xeon® Scalable processors in 2U space, with 32/48 DDR4 DIMMs
- Up to 25 2.5-inch hard drives for local storage, or 8 NVMe SSDs
- 2 10GE and 2 GE LOM ports, and 9/11 PCIe expansion slots
- Delivers lower OPEX than 2U 2-socket servers; leverages intelligent energy saving to improve performance per watt by 15%; combines intelligent management features to enable up to 93% accuracy for fault locating

Unlocks high computing efficiency for scenarios such as virtualization, HPC, database, and SAP HANA in-memory computing.



### Superior Performance with Higher Efficiency

- Supports 4 Intel® Xeon® Scalable Processors (Platinum or Gold series) in a 2U space. Its Ultra Path Interconnect (UPI) bus supports rates of up to 10.4 GT/s, and a single processor supports up to 28 cores. The server supports Intel® Turbo Boost, hyper-threading, and Advanced Vector Extensions (AVX-512). A single processor delivers up to 40% higher compute power than the previous-generation processor.
- Supports 32/ 48<sup>1</sup> DDR4 DIMMs with a memory capacity of up to 4 TB / 6 TB (configured with 128 GB DIMMs) to meet large-capacity memory application requirements.
- The 2488 V5 supports 8 DCPMMs as volatile or non-volatile storage, which can be used together with 24 DDR4 DIMMs, offering up to 7 TB memory capacity (configured with 512 GB DCPMMs and 128 GB DDR4 DIMMs) to meet various workload requirements.
- The 2488H V5 supports 24 DCPMMs as volatile or non-volatile storage, which can be used together with 24 DDR4 DIMMs, offering up to 15 TB memory capacity (configured with 512 GB DCPMMs and 128 GB DDR4 DIMMs) to meet various workload requirements.
- Supports two GE and two 10GE LAN on motherboard (LOM) ports, meeting networking requirements of 98% scenarios with streamlined configuration.
- Supports up to 25 2.5-inch local hard drives (configurable with 8 NVMe SSDs).
- One 2488/2488H V5 saves up to 32%<sup>2</sup> OPEX in the virtualization scenario compared with two traditional 2U 2S servers.

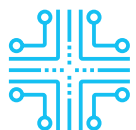
<sup>1</sup> The 2488 V5 supports up to 32 DIMMs and 2488H V5 supports 48 DIMMs.

<sup>2</sup> Data is derived from Huawei lab tests; actual improvement depends on the real-world scenario.



### Smart Power Saving and Better Energy Efficiency

- Leverages patented Dynamic Energy Management Technology (DEMT), and multiple power-saving measures such as component hibernation, proportional-integral-derivative (PID) algorithm based fan speed tuning, and active-standby power supplies, driving down overall equipment power consumption by up to 15% without compromising workload performance.
- Supports 2,000 W Platinum AC power supply unit (PSU), meeting ultra-high performance requirements; leverages the DC and high-voltage DC (HVDC) technologies to improve energy utilization.
- PSUs meet the requirements of ENERGY STAR and China Environmental Labelling.



### Unmatched Intelligent Manageability, Integration, and Openness

- Uses patented intelligent Fault Diagnosis & Management (FDM) technology, delivering up to 93% accuracy in diagnosing core component faults.
- Integrates eSight for smart entire-lifecycle O&M, driving a leap in deployment and O&M efficiency.
  - » Supports batch OS installation, slashing the average OS installation time of each server from hours to minutes.
  - » Supports automated firmware upgrade, with flexible and configurable upgrade policies for different components and drivers.
  - » Supports stateless computing, allowing for rapid replication of live-network configuration and swift failover.
- Integrates a touchscreen LCD panel for fault diagnosis, allowing O&M personnel to quickly locate faults (supported only by the 2488/2488H V5 8-drive models).
- Integrates fault diagnosis LEDs on the front panel to display error codes in real time, enabling maintenance personnel to rapidly locate a fault.
- Provides standardized open interfaces and development guides, facilitating seamless integration with third-party management software.



# Huawei FusionServer Pro 2488/2488H V5 Server



	2488 V5	2488H V5
Form factor	2U rack server	
Processors	2 or 4 1st Generation Intel® Xeon® Scalable processors (5100/6100/8100 series), up to 205 W 2 or 4 2nd Generation Intel® Xeon® Scalable processors (5200/6200/8200 series), up to 205 W	
Chipset platform	Intel C622	
Memory	32 DDR4 DIMM slots, 2933 MT/s; up to 8 DCPMMs, 2666 MT/s	48 DDR4 DIMM slots, 2933MT/s; up to 24 DCPMMs, 2666 MT/s
Internal storage	<p>Supports hot-swappable hard drives with the following configuration options:</p> <ul style="list-style-type: none"> <li>8 x 2.5-inch SAS/SATA hard drives</li> <li>25 x 2.5-inch SAS/SATA hard drives</li> <li>8 x 2.5-inch NVMe SSDs and 16 x 2.5-inch SAS/SATA hard drives</li> </ul> <p>Flash storage:</p> <ul style="list-style-type: none"> <li>2 M.2 SSDs</li> </ul>	<p>Supports hot-swappable hard drives with the following configuration options:</p> <ul style="list-style-type: none"> <li>8 x 2.5-inch SAS/SATA hard drives</li> <li>25 x 2.5-inch SAS/SATA hard drives</li> <li>24 x 2.5-inch SAS/SATA hard drives</li> <li>8 x 2.5-inch NVMe SSDs and 16 x 2.5-inch SAS/SATA hard drives</li> </ul> <p>Flash storage:</p> <ul style="list-style-type: none"> <li>2 M.2 SSDs</li> </ul>
RAID support	<ul style="list-style-type: none"> <li>RAID 0, 1, 10, 1E, 5, 50, 6, or 60</li> <li>Configured with a supercapacitor for cache power-off protection</li> <li>Supports RAID level migration, drive roaming</li> </ul>	
LOM network ports	2 x GE + 2 x 10GE ports	
PCIe expansion	Up to 9 PCIe 3.0 slots	Up to 11 PCIe 3.0 slots
Fan modules	4 hot-swappable fan modules, providing protection against single-fan failures	
Power supply units	<p>2 hot-swappable PSUs, with support for 1+1 redundancy. The following PSUs are supported:</p> <ul style="list-style-type: none"> <li>2000 W AC Platinum PSUs 1800 W (input: 200 V to 220 V AC, or 192 V to 200 V DC) 2000 W (input: 200 V to 240 V AC, or 200 V to 288 V DC)</li> <li>1500 W AC Platinum PSUs 1000 W (input: 100 V to 127 V AC) 1500 W (input: 200 V to 240 V AC, or 192 V to 288 V DC)</li> <li>900 W AC Platinum PSUs (input: 100 V to 240 V AC, or 192 V to 288 V DC)</li> <li>1200 W DC PSUs (input: -38.4 V to -72 V DC)</li> </ul>	
Management	<ul style="list-style-type: none"> <li>Huawei iBMC integrates one dedicated management GE network port to provide comprehensive management features such as fault diagnosis, automated O&amp;M, and hardware security hardening.</li> <li>iBMC supports standard interfaces such as Redfish, SNMP, and IPMI 2.0; provides a remote management interface based on HTML5/VNC KVM; supports CD-free deployment and the Agentless feature, simplifying management.</li> <li>(Optional) Configured with the Huawei eSight management software to provide advanced management features such as stateless computing, batch OS deployment, and automated firmware upgrade, enabling smart and automatic entire-lifecycle management.</li> </ul>	
Operating Systems	Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, CentOS, Citrix XenServer, VMware ESXi For details, visit <a href="http://support.huawei.com/online/tools/web/ftca/indexEn?serise=2">http://support.huawei.com/online/tools/web/ftca/indexEn?serise=2</a> .	
Security	<ul style="list-style-type: none"> <li>Power-on password</li> <li>Administrator password</li> <li>Trusted Platform Module (TPM)</li> <li>Secure startup</li> <li>Security front panel</li> </ul>	
Operating temperature	5°C to 45°C (41°F to 113°F), compliant with ASHRAE Classes A3 and A4	
Certification	CE, ENERGY STAR, FCC, CCC, RoHS	
Installation suite	L-shaped guide rails, adjustable guide rails, and holding rails	
Dimensions (H x W x D)	86.1 mm x 447 mm x 748 mm (3.39 in. x 17.60 in. x 29.45 in.)	

\*Last update: April 24, 2019

## For more information

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5288 V5

## | Hybrid Storage Architecture, Tiered Data Storage |

- 2 Intel® Xeon® Scalable processors in 4U space, with 24 DDR4 DIMMs
- Up to 44 3.5-inch hard drives for local storage, or 4/8 NVMe SSDs
- 2 10GE and 2 GE LOM ports, and 10 PCIe expansion slots
- Leverages intelligent energy saving to improve performance per watt by 15%; combines intelligent management features to enable up to 93% accuracy for fault locating

Offers ultra-large storage capacities, which is ideal for hot, warm, and cold data tiered storage in scenarios such as Content Delivery Network (CDN), video cloud, and massive data archiving.



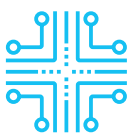
### Ultralarge Capacity, Tiered Storage

- Supports 2 Intel® Xeon® Scalable Processors in a 4U space. Its Ultra Path Interconnect (UPI) bus supports rates of up to 10.4 GT/s, and a single CPU supports up to 28 cores. The server supports Intel® Turbo Boost, hyper-threading, and Advanced Vector Extensions (AVX-512). A single processor delivers up to 40% higher compute power than the previous-generation processor.
- Supports 24 DDR4 DIMMs with a memory capacity of up to 3 TB (configured with 128 GB DIMMs) to meet large-capacity memory application requirements.
- Supports 12 DCPMMs as volatile or non-volatile storage, which can be used together with 12 DDR4 DIMMs, offering up to 7.5 TB memory capacity (configured with 512 GB DCPMMs and 128 GB DDR4 DIMMs) to meet various workload requirements.
- Ultra-large storage space with 44 3.5-inch and 4 2.5-inch hard drives (up to 8 NVMe SSDs), ideal for tiered storage of hot, warm, and cold data.
- Supports two GE and two 10GE LAN on motherboard (LOM) ports, meeting networking requirements of 98% scenarios with streamlined configuration.



### Smart Power Saving and Better Energy Efficiency

- Leverages patented DEMA, and multiple power-saving measures such as component hibernation, proportional-integral-derivative (PID) algorithm based fan speed tuning, and active-standby power supplies, driving down overall equipment power consumption by up to 15% without compromising workload performance.
- Fitted with 80 Plus® Platinum power supply units (PSUs), up to 94% conversion efficiency; complies with ENERGY STAR standards and has passed the China Energy Conservation and Environmentally-Friendly Certification.
- PSUs with 900 W, 1500 W and more power options to flexibly adapt to different power requirements, improving energy utilization.



### Unmatched Intelligent Manageability, Integration, and Openness

- Uses patented intelligent Fault Diagnosis & Management (FDM) technology, delivering up to 93% accuracy in diagnosing core component faults.
- Integrates eSight for smart entire-lifecycle O&M, boosting deployment and O&M efficiency.
  - » Supports batch OS installation, slashing the average OS installation time of each server from hours to minutes.
  - » Supports automated firmware upgrade, with flexible and configurable upgrade policies for different components and drivers.
  - » Supports stateless computing, allowing for rapid replication of live-network configuration and swift failover.
- Integrates fault diagnosis LEDs to display error codes in real time, enabling maintenance personnel to rapidly locate a fault.
- Provides standardized open interfaces and development guides, facilitating seamless integration with third-party management software.

# Huawei FusionServer Pro 5288 V5 Server



Form Factor	4U rack server
Processors	1 or 2 1st Generation Intel® Xeon® Scalable processors (3100/4100/5100/6100/8100 series), up to 205 W 1 or 2 2nd Generation Intel® Xeon® Scalable processors (3200/4200/5200/6200/8200 series), up to 205 W
Chipset	Intel C622
Memory	24 DDR4 DIMM slots, 2933 MT/s; up to 12 DCPMMs, 2666 MT/s
Internal Storage	Supports hot-swappable hard drives with the following configuration options: Front: <ul style="list-style-type: none"><li>• 24 x 3.5-inch SAS/SATA hard drives</li></ul> Embedded: <ul style="list-style-type: none"><li>• 4 x 3.5-inch SAS/SATA hard drives</li></ul> Rear: <ul style="list-style-type: none"><li>• 16 x 3.5-inch SAS/SATA hard drives</li><li>• 16 x 3.5-inch SAS/SATA hard drives + 4 x 2.5-inch SAS/SATA hard drives or NVMe SSDs</li><li>• 14 x 3.5-inch SAS/SATA hard drives (configurable with 4 NVMe SSDs) + 4 x 2.5-inch SAS/SATA hard drives or NVMe SSDs (This configuration does not support internal hard disk and I/O module 1)</li></ul> Flash storage: <ul style="list-style-type: none"><li>• Two M.2 SSDs</li></ul>
RAID	RAID 0, 1, 5, 50, 6, or 60; optional supercapacitor to protect cache data from power failures; RAID level migration, drive roaming, self-diagnosis, and web-based remote configuration
Network Ports	LAN on motherboard (LOM): 2 x 10GE + 2 x GE ports Flexible NIC: 2 x GE, 4 x GE, 2 x 10GE, 2 x 25GE, or 1/2 x 56G FDR IB ports
PCIe Expansion	Up to 10 PCIe 3.0 slots, including 1 for a RAID controller card and 1 for a flexible NIC
Fan Modules	4 hot-swappable counter-rotating fan modules with optional N+1 redundancy
Power Supply	2 hot-swappable PSUs with optional 1+1 redundancy. Supported options include: <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 1000 W (input: 100 V to 127 V AC) 1500 W (input: 200 V to 240 V AC, or 192 V to 288 V DC)</li></ul>
Management	<ul style="list-style-type: none"><li>• Huawei iBMC integrates one dedicated management GE network port to provide comprehensive management features such as fault diagnosis, automated O&amp;M, and hardware security hardening.</li><li>• iBMC supports standard interfaces such as Redfish, SNMP, and IPMI 2.0; provides a remote management interface based on HTML5/VNC KVM; supports CD-free deployment and the Agentless feature, simplifying management.</li><li>• (Optional) Configured with the Huawei eSight management software to provide advanced management features such as stateless computing, batch OS deployment, and automated firmware upgrade, enabling smart and automatic entire-lifecycle management.</li></ul>
Operating Systems	Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, CentOS, Citrix XenServer, VMware ESXi For details, see <a href="http://support.huawei.com/online/toolsweb/ftca/index?serise=2">http://support.huawei.com/online/toolsweb/ftca/index?serise=2</a> .
Security	<ul style="list-style-type: none"><li>• Power-on password</li><li>• Administrator password</li><li>• Trusted Platform Module (TPM)</li><li>• Security front panel</li></ul>
Operating Temperature	5°C to 40°C (41°F to 104°F) (ASHRAE Class A3 compliant)
Certification	CE, UL, FCC, CCC, and RoHS
Installation Suite	L-shaped guide rails, adjustable guide rails, and holding rails
Dimensions (H x W x D)	175 mm x 447 mm x 748 mm (6.89 in. x 17.60 in. x 29.45 in.)

\*Last update: April 24, 2019

## For more information

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<http://e.huawei.com/en/products/cloud-computing-dc/servers>



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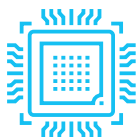


5885H V5

## | Deliver Excellent Performance and Scalability to Enable Fast and Stable Mission-Critical Services |

- 4 Intel® Xeon® Scalable processors in 4U space, with 48 DDR4 DIMMs
- Up to 25 2.5-inch hard drives for local storage, or 8 NVMe SSDs
- 2 10GE and 2 GE LOM ports, and 15 PCIe expansion slots
- Leverages intelligent energy saving to improve performance per watt by 15%; combines intelligent management features to enable up to 93% accuracy for fault locating

Delivers excellent stability and reliability for scenarios such as virtualization, HPC, and database.



### High Efficiency, Stability, and Expandability

- Supports four Intel® Xeon® Scalable processors in a 4U space. Its Ultra Path Interconnect (UPI) bus supports a speed of up to 10.4 GT/s, and a single CPU supports up to 28 computing cores. The server supports Intel® Turbo Boost, hyper-threading, and Advanced Vector Extensions (AVX-512). A single processor delivers up to 65% higher compute performance than the previous-generation processor.
- Supports 48 DDR4 DIMMs with a memory capacity of up to 6 TB (configured with 128 GB DIMMs) to meet large-capacity memory application requirements.
- Supports 24 DCPMMs as volatile or non-volatile storage, which can be used together with 24 DDR4 DIMMs, offering up to 15 TB memory capacity (configured with 512 GB DCPMMs and 128 GB DDR4 DIMMs) to meet various workload requirements.
- 15 PCIe slots, providing excellent scalability.
- Two GE and two 10GE LAN on motherboard (LOM) ports with streamlined configuration, meeting networking requirements of 98% scenarios.
- Supports up to 25 x 2.5-inch local hard drives (configurable with 8 NVMe SSDs).



### Smart Power Saving and Better Energy Efficiency

- Leverages patented DEMA, and multiple power-saving measures such as component hibernation, proportional-integral-derivative (PID) algorithm based fan speed tuning, and active-standby power supplies, driving down overall equipment power consumption by up to 15% without compromising workload performance.
- Fitted with 80 Plus® Platinum power supply units (PSUs), up to 94% conversion efficiency; complies with ENERGY STAR standards and has passed the China Energy Conservation and Environmentally-Friendly Certification.
- PSUs with 900 W, 1200 W, 1500 W, and more power options to flexibly adapt to different power requirements, improving energy utilization



### Unmatched Intelligent Manageability, Integration, and Openness

- Uses patented intelligent Fault Diagnosis & Management (FDM) technology, delivering up to 93% accuracy in diagnosing core component faults.
- Integrates eSight for smart entire-lifecycle O&M, driving a leap in deployment and O&M efficiency.
  - » Supports batch OS installation, slashing the average OS installation time of each server from hours to minutes.
  - » Supports automated firmware upgrade, with flexible and configurable upgrade policies for different components and drivers.
  - » Supports stateless computing, allowing for rapid replication of live-network configuration and swift failover.
- Integrates a touchscreen LCD panel for fault diagnosis, allowing O&M personnel to quickly locate faults (supported only by the 5885H V5 8-drive models).
- Integrates fault diagnosis LEDs on the front panel to display error codes in real time, enabling maintenance personnel to rapidly locate a fault.
- Provides standardized open interfaces and development guides, facilitating seamless integration with third-party management software.

# Huawei FusionServer Pro 5885H V5 Server



Form Factor	4U rack server
Processors	2 or 4 1st Generation Intel® Xeon® Scalable processors (5100/6100/8100 series), up to 205 W 2 or 4 2nd Generation Intel® Xeon® Scalable processors (5200/6200/8200 series), up to 205 W
Chipset	Intel C622
Memory	48 DDR4 DIMM slots, 2933 MT/s; up to 24 DCPMMs, 2666 MT/s
Internal Storage	Supports hot-swappable hard drives with the following configuration options: <ul style="list-style-type: none"><li>• 8 x 2.5-inch SAS/SATA hard drives (front)</li><li>• 24 x 2.5-inch SAS/SATA hard drives (front)</li><li>• 25 x 2.5-inch SAS/SATA hard drives (front)</li><li>• 16 x 2.5-inch SAS/SATA hard drives and 8 x 2.5-inch NVMe SSDs (front)</li></ul> Flash storage: <ul style="list-style-type: none"><li>• Two M.2 SSDs</li></ul>
RAID	RAID 0, 1, 5, 50, 6, or 60; optional supercapacitor to protect cache data from power failures; RAID level migration, drive roaming, self-diagnosis, and web-based remote configuration
Network Ports	LAN on motherboard (LOM): 2 x 10GE + 2 x GE ports
PCIe Expansion	Up to 15 PCIe slots for 15 PCIe 3.0 slots 2 dual-width full-height full-length GPU cards (x16)
Fan Modules	5 hot-swappable counter-rotating fan modules with optional N+1 redundancy
Power Supply	4 hot-swappable PSUs with optional 2+2 redundancy. Supported options include: <ul style="list-style-type: none"><li>• 1500 W AC Platinum PSUs 1000 W (input: 100 V to 127 V AC) 1500 W (input: 200 V to 240 V AC, or 192 V to 288 V DC)</li><li>• 900 W AC PSUs (input: 100 V to 240 V AC, or 192 V to 288 V DC)</li><li>• 1200 W DC PSUs (input: -38.4 V to -72 V DC)</li></ul>
Management	<ul style="list-style-type: none"><li>• Provides management features such as fault diagnosis, dynamic energy management technology (DEMT), and hardware security hardening based on Huawei iBMC chips; provides mainstream interfaces, such as Redfish interfaces, enabling easy integration.</li><li>• Optionally configured with the Huawei eSight management software to provide advanced management features such as batch OS deployment and automated firmware upgrade, enabling automated entire-lifecycle management.</li></ul>
Operating Systems	<ul style="list-style-type: none"><li>• Microsoft Windows Server</li><li>• Red Hat Enterprise Linux</li><li>• SUSE Linux Enterprise Server</li><li>• CentOS</li><li>• Citrix XenServer</li><li>• VMware ESXi</li></ul> For details, see <a href="http://support.huawei.com/online/toolsweb/ftca/index?serie=2">http://support.huawei.com/online/toolsweb/ftca/index?serie=2</a> .
Security	<ul style="list-style-type: none"><li>• Power-on password</li><li>• Administrator password</li><li>• Trusted Platform Module (TPM)</li><li>• Security front panel</li></ul>
Operating Temperature	5°C to 45°C (41°F to 113°F) (ASHRAE A3 and A4 compliant)
Certification	CE, UL, FCC, CCC, and RoHS
Installation Suite	L-shaped guide rails, adjustable guide rails, and holding rails
Dimensions (H x W x D)	175 mm x 447 mm x 790 mm (6.89 in. x 17.60 in. x 31.10 in.)

\*Last update: April 24, 2019

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## Why Huawei servers?

Huawei is a world-leading server provider with a broad spectrum of server offerings including rack, high-density, blade servers and KunLun Mission Critical Servers.

Huawei is the industry's only vendor that has the integrated capabilities of server R&D, manufacture, and delivery. Huawei servers have been recognized for their superior quality, rock-solid reliability, extraordinary performance, ease of management, energy efficiency, and security. Huawei servers have served over 5,000 customer accounts across various industries around the globe, including government, finance, electric power, Internet, telecom, energy, transportation, and education.