

1288H V5 Server Quick Start Guide

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1. Specifications

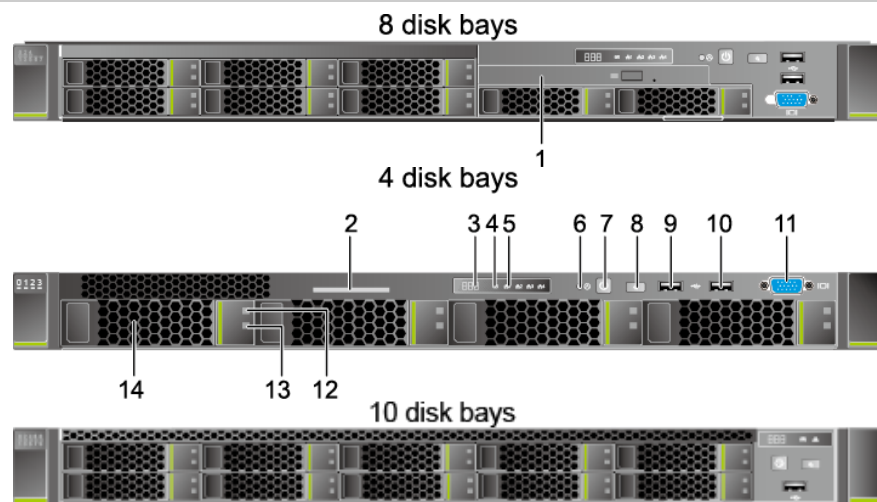
The Huawei FusionServer 1288H V5 server (1288H V5) is designed for high-performance computing, database, web server, virtualization, basic enterprise, and telecom service applications.

Technical Specifications

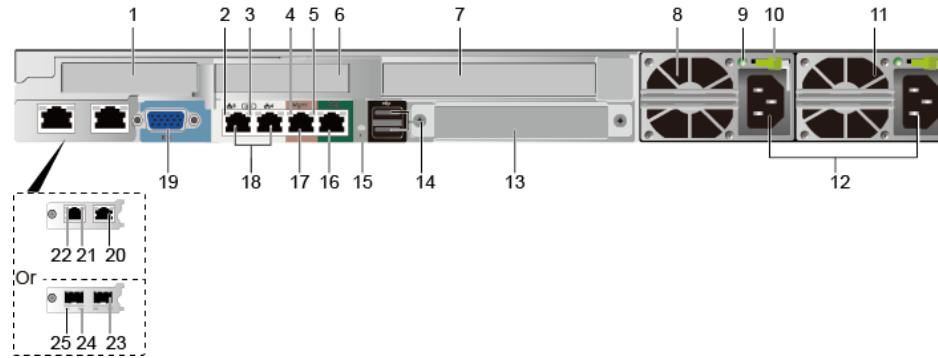
For details, see the *1288H V5 Server V100R005 User Guide*.

Dimensions (H x W x D)	<ul style="list-style-type: none"> Chassis with 3.5-inch hard drives: 43 mm x 436 mm x 748 mm (1.69 in. x 17.17 in. x 29.45 in.) Chassis with 2.5-inch hard drives: 43 mm x 436 mm x 708 mm (1.69 in. x 17.17 in. x 27.87 in.)
Temperature	<ul style="list-style-type: none"> Operating range: 5 °C to 45 °C (41 °F to 113 °F) (ASHRAE Classes A3 and A4 compliant) Storage range: -40 °C to +65 °C (-40 °F to + 149 °F) Maximum change rate: 20 °C/h (36 °F/h)
Relative humidity (RH, non-condensing)	<ul style="list-style-type: none"> Operating range: 8% to 90% Storage range: 5% to 95% Maximum change rate: 20%/h
Maximum altitude	<ul style="list-style-type: none"> ≤ 3050 m (10006.44 ft). According to the ASHRAE standards of 2015, for altitudes above 950 m (3116.79 ft), the highest operating temperature decreases by 1 °C (1.8 °F) for every increase of: <ul style="list-style-type: none"> 300 m (984.24 ft) in altitude when the server configuration complies with Class A2 standards. 175 m (575.14 ft) in altitude when the server configuration complies with Class A3 standards. 125 m (410.10 ft) in altitude when the server configuration complies with Class A4 standards. HDDs cannot be used at an altitude of over 3000 m (9842.5 ft).

2. Front and Rear Panels



- | | |
|--|--------------------------------|
| 1 Built-in DVD drive (optional) | 2 Label plate with an SN label |
| 3 Fault diagnosis LED | 4 Health indicator |
| 5 Network port connection status indicator | 6 NMI button |
| 7 Power button/indicator | 8 UID button/indicator |
| 9 USB 2.0 port | 10 USB 3.0 port |
| 11 VGA port | 12 Hard drive fault indicator |
| 13 Hard drive activity indicator | 14 Hard drive |



- | | |
|---|--------------------------------------|
| 1 PCIe slot 1 | 2 Data transmission status indicator |
| 3 Connection status indicator | 4 Data transmission status indicator |
| 5 Connection status indicator | 6 PCIe slot 2 |
| 7 PCIe slot 3 | 8 Power supply module (PSU) 1 |
| 9 PSU indicator | 10 PSU latch |
| 11 PSU 2 | 12 PSU sockets |
| 13 Flexible NIC (optional) | 14 USB 3.0 ports |
| 15 UID indicator | 16 Serial port |
| 17 Management network port | 18 GE electrical ports |
| 19 VGA port | 20 10GE electrical port |
| 21 Connection status indicator/Data transmission status indicator | 22 Transmission rate indicator |
| 23 10GE optical port | 24 Transmission rate indicator |
| 25 Connection status indicator/Data transmission status indicator | - - |

3. Indicators and Buttons

Indicators and buttons on the front panel

No.	Indicator	State Description	Remarks
3	Fault diagnosis LED	<ul style="list-style-type: none"> ---: The server is operating normally. Error code: A server component is faulty. 	For details about error codes and alarm handling, see the <i>Huawei Rack Server iBMC Alarm Handling</i> .
4	Health indicator	<ul style="list-style-type: none"> Steady green: The server is operating properly. Blinking red at 1 Hz: A major alarm has been generated on the server. Blinking red at 5 Hz: A critical alarm has been generated on the server. 	
5	Network port link indicator	<p>There are two 10GE and two GE ports.</p> <ul style="list-style-type: none"> Steady green: The network port is properly connected. Off: The network port is not in use or has failed. 	When a network port is faulty, contact Huawei technical support to replace the mainboard.
6	NMI button	A non-maskable interrupt (NMI) is generally triggered to stop the OS for debugging. To trigger an NMI, you can press this button or	None

No.	Indicator	State Description	Remarks
		<p>click the button on the iBMC WebUI.</p> <p>NOTICE</p> <ul style="list-style-type: none"> Do not press this button when the server is operating properly. An NMI does not gracefully shut down the OS and causes service interruption and data loss. Before pressing this button, ensure that the OS has the NMI processing program. Otherwise, the OS may crash. 	
7	Power button/indicator	<p>Power indicator</p> <ul style="list-style-type: none"> Off: The server is not connected to a power source. Blinking yellow: The iBMC is starting. Steady yellow: The server is ready to power on. Steady green: The server is properly powered on. <p>Power button</p> <ul style="list-style-type: none"> When the server is powered on, you can press this button to shut down the OS. When the server is powered on, holding down this button for 6 seconds will forcibly power off the server. When the server is ready to be powered on, you can press this button to start the server. 	None
8	UID button/indicator	<p>UID indicator</p> <ul style="list-style-type: none"> Steady or blinking blue: The server is being located. Off: The server is not being located. <p>UID button</p> <ul style="list-style-type: none"> You can press this button to turn on or off the UID indicator. Pressing and holding down this button for 4 to 6 seconds will reset the iBMC. 	None

Indicators and buttons on the rear panel

No.	Indicator	State Description	Remarks
9	PSU indicator	<ul style="list-style-type: none"> Steady green: The power input and output are normal. Blinking green at 1 Hz: <ul style="list-style-type: none"> The input is normal, the server is standby, and the PSU is in MV6 mode. (The output voltage is 6.7 V.) The input is overvoltage or undervoltage. The PSU is in deep hibernation mode. Blinking green at 4 Hz: An online firmware upgrade is being performed. Steady orange: The input is normal, but no power output is supplied due to overheat protection, overcurrent protection, short circuit protection, output overvoltage protection, or some component failures. 	<p>Replace the PSU if the indicator is in any of the following states:</p> <ul style="list-style-type: none"> Blinking green at 1 Hz after the server is normally powered on. Steady orange

No.	Indicator	State Description	Remarks	
15	UID indicator	<ul style="list-style-type: none"> Off: No AC power is supplied. Steady or blinking blue: The server is being located. Off: The server is not being located. 	None	
17/18	Management network port/GE electrical port	Connection status indicator	<ul style="list-style-type: none"> Steady green: The network port is properly connected. Off: The network port is not connected. 	None
		Data transmission status indicator	<ul style="list-style-type: none"> Blinking yellow: Data is being transmitted. Off: No data is being transmitted. 	None
20	10GE electrical port	Transmission rate indicator	<ul style="list-style-type: none"> Steady green: The data transmission rate is 10 Gbit/s. Steady yellow: The data transmission rate is 1 Gbit/s. Off: The network port is not connected. 	None
		Connection status indicator/Data transmission status indicator	<ul style="list-style-type: none"> Steady green: The network port is properly connected. Blinking green: Data is being transmitted. Off: The network port is not connected. 	None
23	10GE optical port	Connection status indicator/Data transmission status indicator	<ul style="list-style-type: none"> Steady green: The network port is properly connected. Blinking green: Data is being transmitted. Off: The network port is not connected. 	None
		Transmission rate indicator	<ul style="list-style-type: none"> Steady green: The data transmission rate is 10 Gbit/s. Steady yellow: The data transmission rate is lower than 10 Gbit/s. Off: The network port is not connected. 	None

4. Installation

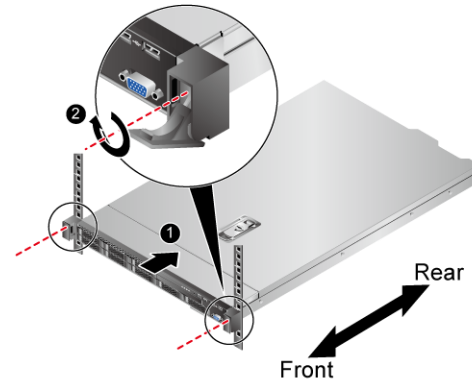


CAUTION

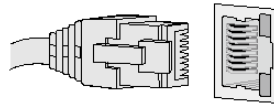
- Before unpacking and installing the server, wear an ESD wrist strap or gloves to avoid damage to electrostatic-sensitive parts.
- At least two people are required to move the server to the cabinet.

1. Install the server into the cabinet.

- Place the server on the guide rails and push it into the cabinet.
- Align the server mounting ears with the cabinet mounting bars, and tighten the captive screws on the mounting ears.



2. Connect cables to service and management network ports as required.



3. Connect the power cables.



Circuit breakers rated 32 A AC or 63 A DC are recommended.

5. Power-on

If...	Then...
The PUSs are not yet powered on	Power on the PSUs.
The server is on standby after the PSUs are powered on	Press the power button on the front panel.
You want to power on the server remotely	Run the <code>ipmcset -d powerstate -v 1</code> command on the iBMC CLI.
	Click the power control button on the iBMC WebUI.

For details, see the *Huawei Rack Server iBMC User Guide*.

6. Error Code Reference

Error Code	Fault Description	Remarks
---	The server is operating normally.	-
A00	Air intake vent exceeds the operating temperature limit.	-
A0X	CPU X exceeds the operating temperature limit.	X: CPU number
b01	Power supply to the mainboard is abnormal or faulty.	-
b02	The RAID controller card is abnormal or faulty.	-
C0X	CPU X is abnormal or faulty.	X: CPU number
E01	CMOS battery is abnormal or faulty.	-
F0X	Fan module X is abnormal or faulty.	X: fan module number
HXX	Hard drive in slot XX is abnormal or faulty.	XX: hard drive slot number
L01	A cable connection is abnormal or faulty.	-
P0X	PSU X is abnormal or faulty.	X: PSU number
XXX	DIMM XXX is abnormal or faulty.	XXX: DIMM number

Error Code	Fault Description	Remarks
In this table, X is an integer.		

7. Follow-up

After the server is successfully powered on, configure the server. For details, see the *1288H V5 Server V100R005 User Guide*.

To obtain the document:

- Scan the QR code.
- Visit [Huawei technical support website](#).



8. Hazardous Substance Statement for Electronic and Electrical Products

Component	Hazardous Substance					
	Cd	Pb	Hg	Cr (VI)	PBBs	PBDEs
Chassis	○	—	○	○	○	○
PCBA	○	—	○	○	○	○
Cables	○	—	○	○	○	○
Corollary equipment	○	—	○	○	○	○
Accessories	○	—	○	○	○	○

This table is prepared in accordance with the provisions of SJ/T 11364.

○: indicates that the content of the hazardous substance contained in all of the homogenous materials for the component is below the limit specified in GB/T 26572.

-: indicates that the content of the hazardous substance contained in at least one of the homogenous materials for the component is above the limit specified in GB/T 26572.

9. FCC

Supplier's Declaration of Conformity (SDoC)

Unique Identifier: trade name: [Huawei](#); product name: [Server](#);
model number: [H12H-05,FusionServer 1288H V5,1288H V5](#)

Responsible Party- U.S. Contact Information

Huawei Technologies USA Inc.
5700 Tennyson Parkway, Suite 500
Plano, Texas 75024

Main: 214-919-6000 / TAC Hotline: 877-448-2934

FCC Compliance Statement (for products subject to Part 15)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.