

Huawei E9000 Blade Server Chassis Datasheet

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Overview

Huawei E9000 Converged Infrastructure Blade Server Chassis Provides 16 slots in a 12U chassis that includes redundant Power Supply Units (PSUs), heat-dissipation modules, management modules, and switch modules. Extensive scalability allows E9000 servers to support a variety of services with 48 DIMMs and 15 x 2.5-inch hard disks in a full-width slot along with 2- and 4-socket compute nodes and support for I/O acceleration using GPUs, PCIe SSDs, and GPUs for General-Purpose computing (GPGPUs). Switch module choices enable the E9000 to handle a variety of services, with modules including GE, 10 GE, 40 GE, FC, FCoE, and InfiniBand FDR with support for evolution to 100 GE and InfiniBand EDR.

This converged infrastructure platform features an optimized layout to make best use of the available space. The Huawei E9000 chassis can be installed in a standard 19-inch rack at a depth of at least 1m. The chassis is available with AC or DC power setups to suit data center requirements. Leverage Huawei's deep experience in computing, storage, and networking to help reduce system deployment time from a few days to a few hours.

Quick Specs

Table 1 shows the Huawei E9000 Blade Server specifications. The Chassis should be configured to get the performance.

Product	Huawei E9000 Blade Server Chassis
Form Factor	12U
Blade	16 half-width slots or 8 full-width slots Supports flexible configurations of full-width and half-width nodes
Switch Modules	4 slots for Huawei CX series switch modules provide a midplane switching capability of 15.6 Tbit/s · CX110 GE switch module: 12 x GE + 4 x 10 GE uplink, 32 x GE downlink · CX111 GE switch module: 12 x GE + 4 x 10 GE uplink, 32 x GE downlink · CX116 GE pass-through module: 32 x GE uplink, 32 x GE downlink · CX210 8G FC switch module: 8 x 8G FC uplink, 16 x 8G FC downlink · CX220 16G FC Switch Module: 8 x 16G FC uplink, 16 x 16G FC downlink · CX310 10 GE switch module: 16 x 10 GE uplink, 32 x 10 GE downlink · CX311 10 GE/FCoE converged switch module: 16 x 10 GE + 8 x 8G FC uplink, 32 x 10 GE downlink · CX317 10 GE pass through module: 32 x 10 GE uplink, 32 x 10 GE downlink · CX318 10 GE pass through module: 32 x 10 GE uplink, 32 x 10 GE downlink · CX611 InfiniBand switch module (QDR 40 Gbit/s, FDR 56 Gbit/s): 18 x QDR/FDR uplink, 16 x QDR/FDR downlink · CX710 40 GE switch module: 8 x 40 GE uplink, 16 x 40 GE downlink · CX912 multi-plane switch module; supports FC ports: 16 x 10 GE + 8 x 8G FC uplink, 32 x 10 GE + 16 x 8G FC downlink · CX915 multi-plane switch module: 4 x 10 GE + 12 x GE + 8 x 8G FC uplink, 32 x GE + 16 x 8G FC downlink
PSU	AC/DC PSU: Maximum six 3,000W/2,000W AC or six 2,500W DC hot-swappable PSUs in N+N or N+M redundancy mode
Fan Modules	Provides 14 hot-swappable fan modules in N+1 redundancy mode
Power Supply	110V/220V AC or -48V DC
Operating Temperature	5°C to 40°C
Dimensions (H x W x D)	530 mm x 442 mm x 840 mm

Product Details

Figure 1 shows the front view of E9000 Blade Server.

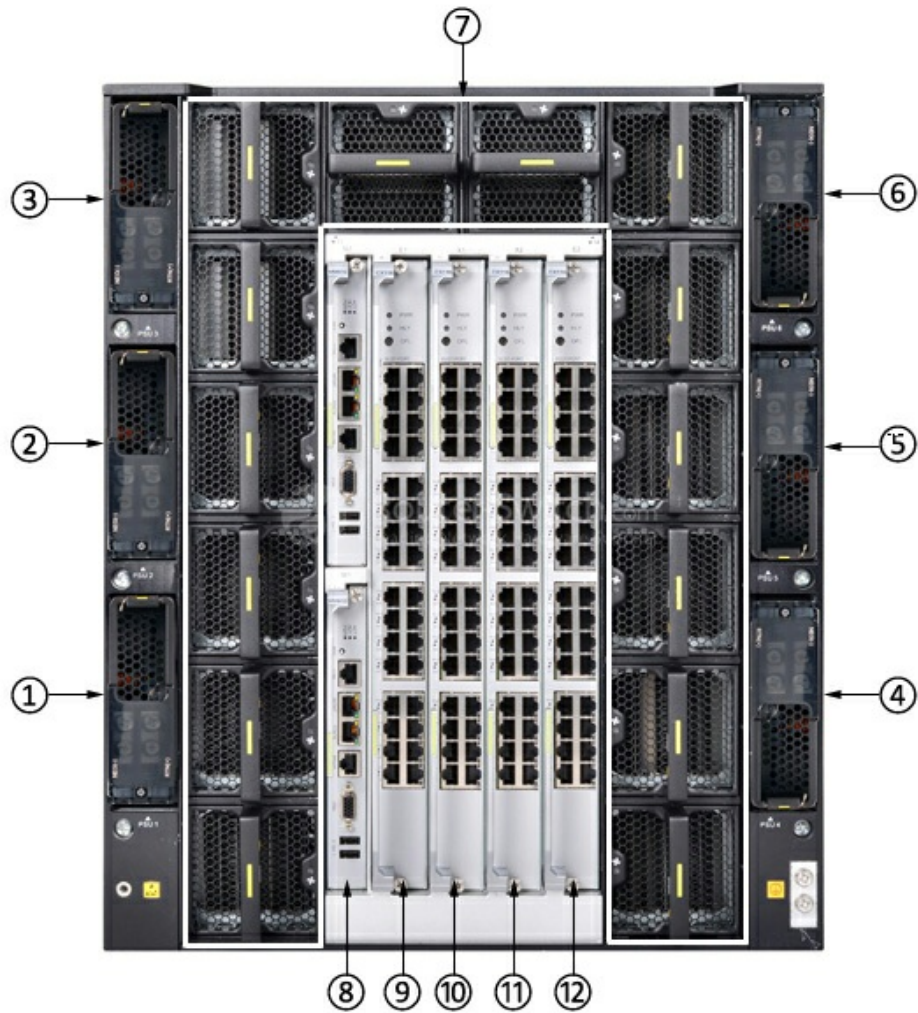


Note:

(1)	Half-Width Compute Nodes
(2)	Full-Width Compute Nodes
(3)	Half-Width Compute Nodes

· There are 16 slots for compute nodes. Full-width or half-width compute nodes can both be installed in the chassis.

Figure 2 shows the back view of E9000 Blade Server.



Note:

(1)	PSU 1	(7)	14 Fan Modules
(2)	PSU 2	(8)	Management Module 1MM (Downside) Management Module 2MM (Upside)
(3)	PSU 3	(9)	Pass Through Module 1E
(4)	PSU 4	(10)	Switch Module 2X
(5)	PSU 5	(11)	Switch Module 3X
(6)	PSU 6	(12)	Pass Through Module 4E

Figure 3 shows the E9000 Blade Server with components.



The Supported Components

Table 2 shows the supported components of this E9000 Blade Server chassis.

Item	Description
HUAWEI CH121 V3 COMPUTE NODE	Huawei FusionServer CH121 V3 Compute Node for E9000, Intel Xeon E5-2600 V3 Series, 24 DDR4 DIMMs, RAID 0 and 1
HUAWEI CH121 COMPUTE NODE FOR E9000	Huawei CH121 Compute Node for E9000, Intel Xeon E5-2600 and E5-2600 v2 series, 24 DDR3 DIMMs, Virtualization, Cloud computing and HPC
HUAWEI CH140 V3 COMPUTE NODE FOR E9000	Huawei FusionServer CH140 V3 Compute Node for E9000, Intel Xeon E5-2600 V3 Series, twin compute nodes in a half-width slot, 8 DDR4 DIMMs
HUAWEI CH220 V3 I/O EXPANSION COMPUTE NODE	Huawei FusionServer CH220 V3 I/O Expansion Compute Node, Intel Xeon E5-2600 V3 Series, 16 DDR4 DIMMs
HUAWEI CH222 V3 STORAGE COMPUTE NODE	Huawei FusionServer CH222 V3 Storage Compute Node, Intel Xeon E5-2600 V3 Series, RAID, 24 DDR4 DIMMs
HUAWEI CH226 V3 STORAGE EXPANSION COMPUTE NODE	Huawei FusionServer CH226 V3 Storage Expansion Compute Node, Intel Xeon E5-2600 V3 Series, RAID, 24 DDR4 DIMMs
HUAWEI CH242 V3 COMPUTE NODE	Huawei FusionServer CH242 V3 Compute Node for E9000, Intel Xeon E7-4800/8800 V2/V3 series CPU, RAID, 32 DDR4 DIMMs

Compare to Similar Items

Table 3 shows the comparison of E9000 Blade Server and RH2288H V3 RACK SERVER.

Item	HUAWEI E9000 BLADE SERVER CHASSIS	HUAWEI RH2288H V3 RACK SERVER
Type	Blade Server	Rack Server

Management	· Uses HMMs in 1+1 redundancy mode, supports standard management interfaces, such as SNMP and IPMI, manages computing and switching devices in a unified manner, and provides comprehensive management functions, such as a GUI, remote KVM, virtual media, SOL, remote control, hardware monitoring, intelligent power supply, and historical power consumption · Provides value-added management features, such as multi-frame cascading management, graphic network configuration, and stateless computing · Uses the Huawei Hi1710 management chip and independent ports · Supports standard management interfaces, such as SNMP and IPMI; provides GUI, remote KVM, virtual media, SOL, Predictive Failure Analysis (PFA), intelligent power supply, remote control, and hardware monitoring	Incorporates a touchscreen LCD panel for fault diagnosis · Supports Huawei eSight management software and integration with third-party management systems, such as VMware vCenter, Microsoft System Center, and Nagios
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Get more information

Do you have any question about the HUAWEI E9000 BLADE SERVER CHASSIS?

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Specification

HUAWEI E9000 BLADE SERVER CHASSIS Specifications	
Form Factor	12U
Blade	16 half-width slots or 8 full-width slots Supports flexible configurations of single-slot, dual-slot, full-width, and half-width nodes
Switch Modules	4 slots for Huawei CX series switch modules provide a midplane switching capability of 15.6 Tbit/s CX110 GE switch module: 12 x GE + 4 x 10 GE uplink, 32 x GE downlink CX111 GE switch module: 12 x GE + 4 x 10 GE uplink, 32 x GE downlink CX116 GE pass-through module: 32 x GE uplink, 32 x GE downlink CX210 8G FC switch module: 8 x 8G FC uplink, 16 x 8G FC downlink CX220 16G FC Switch Module: 8 x 16G FC uplink, 16 x 16G FC downlink CX310 10 GE switch module: 16 x 10 GE uplink, 32 x 10 GE downlink CX311 10 GE/FCoE converged switch module: 16 x 10 GE + 8 x 8G FC uplink, 32 x 10 GE downlink CX317 10 GE pass through module: 32 x 10 GE uplink, 32 x 10 GE downlink CX611 InfiniBand switch module (QDR 40 Gbit/s, FDR 56 Gbit/s): 18 x QDR/FDR uplink, 16 x QDR/FDR downlink CX710 40 GE switch module: 8 x 40 GE uplink, 16 x 40 GE downlink CX912 multi-plane switch module; supports FC ports: 16 x 10 GE + 8 x 8G FC uplink, 32 x 10 GE + 16 x 8G FC downlink CX915 multi-plane switch module: 4 x 10 GE + 12 x GE + 8 x 8G FC uplink, 32 x GE + 16 x 8G FC downlink
PSU	AC/DC PSU: maximum six 3,000W/2,000W AC or six 2,500W DC hot-swappable PSUs in N+N or N+M redundancy mode
Fan Modules	Provides 14 hot-swappable fan modules in N+1 redundancy mode
Management	● Uses HMMs in 1+1 redundancy mode, supports standard management interfaces, such as SNMP and IPMI, manages computing and switching devices in a unified manner, and provides comprehensive management functions, such as a GUI, remote KVM, virtual media, SOL, remote control, hardware monitoring, intelligent power supply, and historical power consumption ● Provides value-added management features, such as multi-frame cascading management, graphic network configuration, and stateless computing
Power Supply	110V/220V AC or –48V DC
Operating Temperature	5°C to 40°C
Dimensions	Height: 530 mm (20.87 in.) Width: 442 mm (17.40 in.) Depth: 840 mm (33.07 in.)

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