

KunLun 9032 Mission critical Server Specifications

Category	Item	KunLun 9032
Basic configuration		Four system computer enclosures (SCEs), one central management enclosure (CME)
Processor	Quantity	Up to 32 CPUs (24 CPUs for non-full configuration)
	Type	Intel® Xeon® E7-4800/E7-8800 v3 series processors
Memory	Capacity	Up to 24 TB (32 GB DIMMs), 32 TB (64 GB DIMMs)
	Quantity	Up to 768 DIMMs (12-DIMM memory risers) Up to 512 DIMMs (8-DIMM memory risers)
	Type	16 GB/32 GB DDR3/DDR4 DIMMs
Storage	Front I/O (FIO) modules	Up to four FIO modules (one for each SCE)
	Hard disk	Up to ninety-six 2.5-inch hot-swappable SAS 3.0 HDDs/SSDs
	RAID	RAID controller cards (configurable): RAID 0, 1, 10, and 1E RAID 0, 1, 10, 5, 50, 6, and 60, a maximum cache capacity of 2 GB, and a supercapacitor for power-off protection Up to eight RAID controller cards of the same type (configurable)
LOM network ports	Rear LAN on motherboard (LOM)	LOMs are plug-in cards and support flexible configuration: Up to eight LOMs Specifications: 2 x GE ports (RJ45)/ 4 x GE ports (RJ45)/ 2 x 10GE ports (SFP+)/ 2 x 10GE ports (RJ45)
PCIe Expansion	Rear standard PCIe slot	Up to 24 rear standard PCIe 3.0 (non-hot-swappable) slots Or up to 16 rear standard PCIe 3.0 (hot-swappable) slots Each SCE supports a maximum of two rear IO modules, and each of the rear IO modules supports three non-hot-swappable slots (1 x PCIe 3.0 x16 + 2 x PCIe 3.0 x8) or two hot-swappable slots (2 x PCIe 3.0 x16) Support standard cards (NICs, HCAs, HBAs, etc.) that require connections to external cables.
	Front PCIe slot	Up to 24 front standard PCIe 3.0 slots (non-hot-swappable, no connection to external cables) Each SCE supports a maximum of one FIO module (12-disk FIO module). Each FIO module supports a maximum of six non-hot-swappable standard NICs that require no connection to external cables. Support GPU cards and Huawei-developed PCIe SSDs (ES3000). Up to two GPUs in a single system or physical partition
DVD drive		The CME supports one SATA DVD-RW drive.
Cabinet door		Common door or noise-reduction door for selection. If a front noise-reduction door is configured, the 8-inch touch management LCD is configured.
Power input	External interface	Four AC five-core industry plugs (2+2 redundancy)
	Voltage input	90 V AC to 264 V AC, 50 Hz/60 Hz
Power output	Rated output voltage	12 V DC
Mechanical specifications	Height	19-inch standard cabinet
	Weight	Full-configuration weight: 950 kg (excluding noise-reduction doors); packaging materials weight: 15 kg
Operating environment	Temperature	Operating temperature: 5°C to 40°C (41°C to 104°C) Storage temperature: -40°C to +65°C (-40°C to +149°C)
System management		Remote management, web pages, virtual KVM, standard protocols such as IPMI 2.0 and SNMP, local touch management LCD (noise-reduction door required)
Security feature		TPM 2.0; Power-on password, administrator password
OS		RHEL, SLES, Microsoft Windows Server
Partitioning		Physical partitioning, logical partitioning

+7 (495) 925-5519
info@compuway.ru

Huawei KunLun 9016/9032 Mission Critical Server



Huawei KunLun 9016/9032 Mission Critical Server



Highlights

Superior, industry-leading performance and scalability

- 576-core, 768 DDR4 DIMM slots, maximized resources in a single system
- Support for physical and logical partitions, superb scalability
- Up to 1.97⁽¹⁾ scalability factor

Reliable, innovative RAS 2.0 technology supporting hot-swappable CPU & memory module

- 100% modular design, maintenance without opening the chassis cover
- Hot-swappable CPUs and DIMMs, unique in the industry
- Proactive Failure Analysis Engine reducing 85%⁽²⁾ downtime

Open, TCO 30% less than that of UNIX servers

- Compatible with mainstream x86 OSs, DBs, virtualization, etc.
- TCO 30%⁽³⁾ less than that of Superdome 2
- TCO 50%⁽³⁾ lower than that of Power 780

Mission critical platform openness is an unstoppable trend. Maybe you want to migrate services from closed UNIX servers to open x86 servers but hesitate over the reliability of x86 servers or the capability in providing over 8-socket scalability and performance of standard x86 servers. Integrating the open x86 ecosystem and Huawei servers with innovative industry-leading technologies, Huawei KunLun 9016/9032 is a reliable choice for your mission critical environment.

Huawei KunLun 9016/9032 perfectly integrates the open ecosystems with RAS features and performance required by Mission critical environments. KunLun uses Huawei's unique RAS 2.0 technology to build high server reliability from chips to OSs. The innovative scale-up architecture of KunLun supports high-speed interconnection among 32 x86 processors and 768 DDR4 DIMM slots. With the scalable performance and RAS features, KunLun easily handles surging online transactions, meets rapid service development requirements, and greatly increases computing cost-efficiency.

KunLun redefines the mission critical servers. It can help accelerate platform transformation and service innovation in scenarios such as migrating Mission critical services from UNIX servers to cost-effective x86 servers, integrating databases or virtualization servers for lower OPEX, or deploying industry-leading memory computing for real-time insight of data.

1: 1.97x scalability factor
Third-party benchmark test result

2: 85% less downtime
Huawei lab test data

3: 30%, 50% less TCO
Summarized based on public data

KunLun 9016 Mission critical Server Specifications

Category	Item	KunLun 9016
Basic configuration		Two system computer enclosures (SCEs), one central management enclosure (CME)
Processor	Quantity	Up to 16 CPUs (8 CPUs for non-full configuration)
	Type	Intel® Xeon® E7-4800/E7-8800 v3 series processors
Memory	Capacity	Up to 12 TB (32 GB DIMMs), 24 TB (64 GB DIMMs)
	Quantity	Up to 384 DIMMs (12-DIMM memory risers) Up to 256 DIMMs (8-DIMM memory risers)
	Type	16 GB/32 GB DDR3/DDR4 DIMMs
Storage	Front I/O (FIO) modules	Up to two FIO modules (one for each SCE)
	Hard disk	Up to forty-eight 2.5-inch hot-swappable SAS 3.0 HDDs/SSDs
	RAID	RAID controller cards (configurable): RAID 0, 1, 10, and 1E RAID 0, 1, 10, 5, 50, 6, and 60, a maximum cache capacity of 2 GB, and a supercapacitor for power-off protection Up to eight RAID controller cards of the same type (configurable)
LOM network ports	Rear LAN on motherboard (LOM)	LOMs are plug-in cards and support flexible configuration: Up to four LOMs Specifications: 2 x GE ports (RJ45)/ 4 x GE ports (RJ45)/ 2 x 10GE ports (SFP+)/ 2 x 10GE ports (RJ45)
PCIe Expansion	Rear standard PCIe slot	Up to 12 rear standard PCIe 3.0 (non-hot-swappable) slots Or up to 8 rear standard PCIe 3.0 (hot-swappable) slots Each SCE supports a maximum of two rear IO modules, and each of the rear IO modules supports three non-hot-swappable slots (1 x PCIe 3.0 x16 + 2 x PCIe 3.0 x8) or two hot-swappable slots (2 x PCIe 3.0 x16) Support standard cards (NICs, HCAs, HBAs, etc.) that require connections to external cables.
	Front PCIe slot	Up to 12 front standard PCIe 3.0 slots (non-hot-swappable, no connection to external cables) Each SCE supports a maximum of one FIO module (12-disk FIO module). Each FIO module supports a maximum of six non-hot-swappable standard NICs that require no connection to external cables. Support GPU cards and Huawei-developed PCIe SSDs (ES3000). Up to two GPUs in a single system or physical partition
DVD drive		The CME supports one SATA DVD-RW drive.
Cabinet door		Common door or noise-reduction door for selection. If a front noise-reduction door is configured, the 8-inch touch management LCD is configured.
Power input	External interface	Four AC five-core industry plugs (2+2 redundancy)
	Voltage input	90 V AC to 264 V AC, 50 Hz/60 Hz
Power output	Rated output voltage	12 V DC
Mechanical specifications	Height	19-inch standard cabinet
	Weight	Full-configuration weight: 420 kg (excluding noise-reduction doors); packaging materials weight: 15 kg
Operating environment	Temperature	Operating temperature: 5°C to 40°C (41°C to 104°C) Storage temperature: -40°C to +65°C (-40°C to +149°C)
System management		Remote management, web pages, virtual KVM, standard protocols such as IPMI 2.0 and SNMP, local touch management LCD (noise-reduction door required)
Security feature		TPM 2.0; Power-on password, administrator password
OS		RHEL, SLES, Microsoft Windows Server
Partitioning		Physical partitioning, logical partitioning