

Do more in your data center with the Hitachi Compute Blade 500 blade server. This highly reliable enterprise platform is designed for virtualization and is the ideal platform for cloud computing applications.



TRANSFORM VIRTUALIZATION ECONOMICS RELIABLE TRUSTED INNOVATE INFORMATION
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Enterprise Blade Computing With Hitachi Compute Blade 500: Flexibility, Scalability and Outstanding Performance

Hitachi Compute Blade 500 (CB 500) delivers top computing power and performance, as well as unprecedented scalability and configuration flexibility with the latest Intel Xeon processor E5 and E5v2 Series. It extends the benefits of Hitachi logical partitioning to new areas of the enterprise data center and includes a choice of integrated switched-fabric networking options.

Standard and double-width blade models are available with up to 2 CPUs in each standard-width blade, and 4 CPUs in each double-width blade. The CB520Hv2 blade features the E5-2600v2 processor series and supports 24 slots for high-speed, DDR3-registered ECC memory DIMMs. Each blade allows up to 2 hot-pluggable, front-side-accessible, serial-attached SCSI (SAS), or solid-state disk (SSD) drives, with hardware RAID. The CB520A blade is powered by the E5-2400 processor and supports 12 DIMM slots. The double-width CB540A blade uses E5-4600 processors with 48 DIMM slots per blade.

CB520Hv2 blade capability may be enhanced using either of two available expansion blades to add either additional storage, or IO expansion capability to the blade. These expansion blade types allow

a CB500 system to support PCIe based flash for application acceleration as well as GPUs for virtual desktop deployments.

Rapid Deployment

A dedicated LCD control panel and simplified USB-enabled configuration setup allow fast implementation and accelerated time-to-value for your application. Simple, tool-free access speeds configuration, setup or upgrades, and allows optional customer replacement of critical modules for lower service cost for basic maintenance.

Flexible, Scalable Networking

Hitachi Compute Blade 500 provides a wide range of network connectivity options, including high-speed integrated fabric switching, futureproof shared access to high-speed IP networking, Fibre Channel and converged switched-fabric architectures. Connect to almost any network infrastructure to reduce cabling and complexity within your data center.

Secure Logical Partitions

The Hitachi Compute Blade 500 logical partitioning feature, LPAR, is embedded in CB 500 server blade firmware. The combination of Hitachi expertise with Intel

virtualization technologies improves performance, reliability and security.

Support for 4 logical partitions per blade is included with the system, and may be expanded to allow for configuration of up to 30 logical partitions per blade. Use the embedded logical partitioning feature or Microsoft® Hyper-V® or VMware, or all 3 in a single chassis.

Unprecedented Adaptability

Hitachi Compute Blade 500 elegantly integrates network, I/O and server resources into a single, space-efficient, flexible solution. The rack-mountable 6U chassis houses up to 8 server blade modules. For I/O versatility, there are 4 bays for internal network switches, and dedicated storage expansion blades allow high-capacity onboard high density disk (HDD) or SSD storage to be supported. With sophisticated, built-in reliability, availability and serviceability features, Hitachi Compute Blade 500 is an ideal data center platform for consolidation of mission-critical applications, virtualization and cloud computing applications.

Compute
Blade 500
White
Paper

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CHASSIS

| | | |
|----------------|-------------------------------|---|
| Chassis | Size | 6U (rack mountable) |
| | Dimensions (w x d x h) | 447mm x 820mm x 266mm |
| | Server blade modules | Up to 8 server blade modules |
| | Management modules | 1 standard, 2 maximum (redundant) |
| | Cooling fans | 6 standard |
| | HDD RAID | Up to 4 expansion blades with 6 HDD/SSD per blade |
| | Switch modules | 2 standard, 4 maximum |
| | Power supplies | Up to 4 power supply modules (N+1 or fully redundant) 80 PLUS Platinum Efficiency Rating |

CB 500 SERVER BLADES

| Item | | Description | | |
|----------------------|-------------------------|--|---|---|
| | | CB520A Server Blade | CB520Hv2 Server Blade | CB540A Server Blade |
| CPU | CPU | Intel Xeon E5-2400 | Intel Xeon E5-2600v2 | Intel Xeon E5-4600 |
| | Number of sockets | 2 | 2 | 4 |
| Memory | DIMM type | Registered ECC DDR3 | Registered ECC DDR3 | Registered ECC DDR3 |
| | Number of slots | 12 | 24 | 48 |
| | Maximum memory capacity | 192GB (16GB DIMM) 384GB (32GB DIMM) | 384GB (16GB DIMM) 1536GB (64GB LRDIMM) | 768GB (16GB DIMM) 1536GB (32GB LRDIMM) |
| Management Interface | BMC/rKVM | SH core based | | |
| | Management LAN | 1Gb Ethernet | | |
| Onboard I/O | NIC | 2x dual-port 1Gb Ethernet | 2x dual-port 10Gb or 1Gb Ethernet | 4x dual-port 10Gb or 1Gb Ethernet |
| Mezzanine | Host bus | PCIe (Gen. 3.0) | | |
| | Number of slots | 2x mezzanine card slots | | 4x mezzanine card slots |
| HDD | RAID | Hardware RAID | | |
| | HDD bay | Hot-swappable 2x 2.5-inch SAS HDD/SSD | | |
| Front Port | KVM | USB connector (USB 2.0 for bootable optical drive)/KVM connector (USB 2.0 x2, VGA) | | |
| | Indicator | Power, location, failure | | |
| Form Factor | | Standard width | | Double width |
| Operating System | | Microsoft® Windows Server® 2012 R2, Red Hat Enterprise Linux 6.4, VMware ESX 5.5; Hitachi Compute Blade logical partitioning feature | | |

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