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.

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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 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 CB520H blade features the E5-2600 processor and supports 24 slots for high-speed, DDR3-registered ECC memory DIMMs. Each blade allows up to 512GB of shared memory to be installed, as well as 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.

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.

Unlike software emulation solutions, the CB 500 logical partitioning feature does not degrade application performance. Unlike

3rd-party virtualization solutions, it does not require additional components, keeping total cost of ownership low. 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. CB 500 provides additional flexibility: 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.

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	**CB520H Server Blade**	**CB540A Server Blade**
CPU	**CPU**	Intel Xeon E5-2400	Intel Xeon E5-2600	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) 512GB (32GB DIMM)	768GB (16GB DIMM) 1024GB (32GB DIMM)
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) x8		
	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, Red Hat Enterprise Linux 6.2, VMware ESX 5.1; Hitachi Compute Blade logical partitioning feature		

⊚Hitachi Data Systems