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Hitachi Compute Rack 220S apparatus specification

Model			Hitachi Compute Rack 220S RAID5(SATAII)
Chassis type			Rack type [2U]
CPU	Supported CPU(clock speed)		Intel® Xeon® Processor E5-2470(2.30GHz)/E5-2440(2.40GHz)/E5-2420(1.90GHz)/E5-2403(1.80GHz)/E5-2430L(2GHz)
	Processor(Core/Tread)		Minimum 1 (Intel® Xeon® Processor E5-2470(2.30GHz):8core/16tread, E5-2440(2.40GHz)/E5-2420(1.90GHz)/E5-2430L(2GHz):6core/12tread,E5-2403(1.80GHz):4core/4tread)/ Maximum 2 (Intel® Xeon® Processor E5-2470(2.30GHz):16core/32tread, E5-2440(2.40GHz)/E5-2420(1.90GHz)/E5-2430L(2GHz):12core/24tread,E5-2403(1.80GHz):8core/8tread)
	Cache Memory	L1 cache/1CPU	Data 32KB/core, Instruction 32KB/core
		L2 cache/1CPU	256KB/core
		L3 cache/1CPU	Intel® Xeon® Processor E5-2470(2.30GHz):20MB, Intel® Xeon® Processor E5-2440(2.40GHz)/E5-2420(1.90GHz)/E5-2430L(2GHz):15MB, Intel® Xeon® Processor E5-2403(1.80GHz):10MB
	Main bus(QPI)		Intel® Xeon® Processor E5-2470(2.30GHz):8.0GT/s, Intel® Xeon® Processor E5-2440(2.40GHz)/E5-2420(1.90GHz)/E5-2430L(2GHz):7.2GT/s, Intel® Xeon® Processor E5-2403(1.80GHz): 6.4GT/s
Chipset			Intel C600 chipset
Main Memory	Capacity		Min:4GB/Max:192GB [(Max96GB/CPU)×2]
	Slot		12[(6 slot/CPU)×2]
	Supported DIMM(*1)		DDR3-1600 Widerange Registered ECC (2048MB,4096MB,8192MB,16384MB), DDR3-1333 Widerange Registered ECC (2048MB,4096MB,8192MB,16384MB),Mirror,Lockstep,Spare,Device tagging
Graphic	Accelerator		Emulex Pilot3[onboard]
	VRAM		32MB
	Display resolution (Display color)(*2)		640 ×480 dots (16,770 thousand colors), 800 ×600 dots (16,770 thousand colors), 1,024 ×768 dots (16,770 thousand colors), 1,280 ×1,024 dots (16,770 thousand colors)

Hard Disk (Built-in)(*3)	Capacity(*4)	RAID0	Max 49.8TB((4TB×12)+(900GB×2))
		RAID5	1TB(500GB×3)~44.9TB((4TB×12)+(900GB×2(RAID1)))
	Support HDD capacity		3.5" SATAII HDD:500GB/1TB/2TB/3TB/4TB; 2.5"(Rear HDDbay) SAS HDD:300GB,450GB,600GB,900GB / SSD:200GB
	Interface		HDD:SAS2.0(6G),SATAII/300 SSD:SATA(200GB)
	Rotation		3.5"HDD:7,200r/min(500GB/1TB/2TB/3TB/4TB) 2.5"HDD:10,000r/min(300GB/450GB/600GB/900GB)
	Hotplug/Hotspare		Supported
Disk controller	Controller		LSI SAS 2208
	Interface		SATAII/SAS2.0
	Cache		512MB/1GB (without/with cache backup module)
	RAID level		RAID 0,1,5,6,10,JBOD
DVD-ROM			-
Expnader bay	2.5"bay(HDD bay)		Max 2 (for Expander HDD cage(Rear))
	3.5"bay(HDD bay)		12
	5"bay(removable)		-
	5"bay(ODD)		-
PCI slot			PCI-Express 3.0(×8) (Full Height/ Full Length):1, PCI-Express 3.0(×4) (Full Height/ Full Length):1, PCI-Express 3.0(×4) (Full Height [MD2]):1, PCI-Express 2.0(×4) (Low profile [MD2]):1, PCI-Express 2.0(×1) (Low profile [MD2]):1
Standard interface	Standard interface		Display(mini D-SUB15pins)×1,serial(D-SUB9pins)×1, USB 2.0 (front 2, rear 4)×6(*5)
	LAN	Controller	Broadcom® BCM5719×1[onboard],KSZ8051-PHY×1[onboard,baseboard management module]
		Interface	1000BASE-T/100BASE-TX/10BASE-T×4(RJ-45), 100BASE-TX/10BASE-T×1(RJ-45)[baseboard management module]
		Wake On LAN	Supported
Dimensions(*6)			484(W × 743(D) × 87.0(H) mm
Mass(Max)(*7)			About 20.2kg(32.7kg)
Power Supply	Spec		800W (80PLUS® Platinum)

	Voltage	AC100V/AC200V± 10% 50/60Hz
	Type of electrical outlet (Number of AC cables)	Grounded two-pole electrical outlet (1(Standard) / 2(When redundancy is enabled)
	Redundant power supply	Supported(1(Standard) +(Optional)) (hot plug supported)
Redundancy FAN		Supported (option,for Hotplug)
Baseboard management module(BMC)		Supported [IPMI1.5Conformity (IPMI2.0 Conformity]
Electric power control		Dynamic Power capping
Standard Power consumption(*8)		AC100V:543W,AC200V:534W
Max Power consumption		AC100V:704W,AC200V:686W
Max Consumption current		AC100V:9.2A,AC200V:4.4A
ENERGY STAR®		No supported
Noise		55dB or less(*9)
Temperature/Humidity conditions(no operation)		Temperature:10~35°C(0~40°C)/Humidity conditions:20~80%(10~90%) However, the thing which is not dewed)
Product content chemical management		RoHS
Compliance with environmental regulations/ restrictions for hazardous substances		REACH
Compliance with safety regulation		UL, CB (UL GS, IRAM, BSMI, GOST-R, CCC)
Compliance with EMC regulations		FCC Class A, EN55022/55024 ,KCC, C-TICK, BSMI, GOST-R,CCC,GS-Mark,IRAM,VCCI
Install OS		-
Support OS		Windows Server® 2012 R2 Standard /Windows Server® 2012 Standard /Windows Server® 2008 R2 Enterprise (SP less/SP1)/Windows Server® 2008 R2 Standard (SP less/SP1)/Red Hat Enterprise Linux 5.7(x86)/Red Hat Enterprise Linux 5.7(AMD/Intel 64)/Red Hat Enterprise Linux 5.9(x86)/Red Hat Enterprise Linux 5.9(AMD/Intel 64)/Red Hat Enterprise Linux Server 6.2(32-bit x86)/Red Hat Enterprise Linux Server 6.2(64-bit x86_64)/Red Hat Enterprise Linux Server 6.4(32-bit x86)/Red Hat Enterprise Linux Server 6.4(64-bit x86_64)/Red Hat Enterprise Linux Server 6.5(32-bit x86)/Red Hat Enterprise Linux Server 6.5(64-bit x86_64)

*1 Wide range registered DIMM (DDR3 1600 SDRAM) and Low-voltage registered DIMM cannot be mounted together.

*2 Actual resolution may be different from the listed ones in the above table according to the displays connected or OS installed.

*3 1 GB equals 109 bytes when referring to HDD/SSD capacity.

*4

You can assign capacity larger than 2 TB (2199 GB) for the logical drive set as disk array but do not assign capacity larger than 2 TB for the logical drive the OS is installed to.
Otherwise the OS cannot create a partition anymore. Use the RAID management utility or the RAID utility to reconstruct the disk arrays and the logical drives.

*5 If an unsupported USB device is connected, operation of the system unit can be affected. Note that the USB ports are USB 2.0 compliant.

*6 Including protrusion. As an exception, the cable clamp for an AC cable is not included.

*7 Including the slide rails and inner rails (3.62 kg) used for installation to a rack cabinet.

*8 Rough estimate of the power consumption in normal operation.

*9 We recommend installing the system unit in a dedicated room. You may feel the noise annoying depending on the installation environment or location. If you install the system unit in an office room, be careful enough to the environment and location.
Note that the rotational speed of the fans is controlled by the temperature inside the system unit.
If the maximum load continues for an extended amount of time at high temperature, or one of the fans gets out of order, the noise level may exceed this standard level.
Note also that on startup or reboot, the fans run at full speed and the noise level may exceed this standard level.

close

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