CHE-NVR8008

Mass Storage Server

NVR

Overview

Checol CHE-NVR8008 is a 2U 8-bay storage server designed for high-density storage needs. Though only 2U, it supports 8 x 3.5" SATA/SAS hot swappable HDDs and RAID 0, 1, 5, 6 & 10. It effectively ensures the safety of HDD data. The server uses INTEL chipset; supports INTEL XEON E3 22NM four-Core CPU, hyper-threading technology, and DDR3 1333/1600 MHz memory.

High Performance

The use of latest Intel Xeon processor provides higher performance for various user applications. Compared with its predecessors, Intel Xeon E3 series incorporates major improvements, including integration of memory controller into the processor, thus removing the FSB-caused architectural memory bottleneck suffered by the predecessors; it adopts Direct Media Interface technology, enabling more efficient interconnection between the cores of processors, and thus reducing the use of bus resources.

High Expandability

It has 4 memory slots and can expands up to 32GB. Maximally supports 8 hot-swappable SATA/SAS HDDs; provides 3 PCI-E expansion slots.

Dimensions

482mm
435mm
88mm
690mm
650mm

Features

▷ **Intel Xeon CPU Support**

Intel Xeon E3-1200V3 processors bring the successful HASWELL architecture to the Intel Xeon processor line-up in the form of HASWELL EP. With up to 4 cores coupled with a larger 8MB L3 cache and clock speeds of up to 3.6GHz Intel Xeon processors offer unrivalled performance.

▷ **ECC DDR3 Support**

Checol CHE-NVR8008 supports more robust and ultra reliable ECC (error-code correction) DDR3 non-buffered memory modules. Designed to detect and eliminate all single-bit data errors to ensure virtually zero data corruption.

ECC Memory Brings:

• Error detection and correction
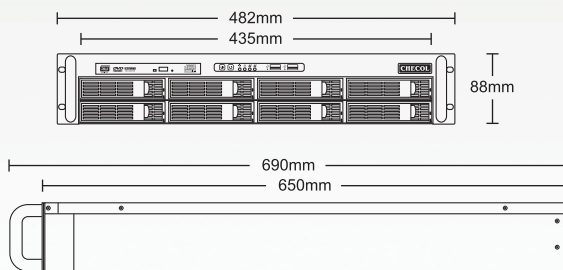• Eliminates single-bit errors
• Greater data stability

Note: ECC memory support requires an Intel® Xeon® processor

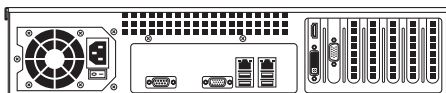▷ **2 Channel Memory Architecture**

▷ **Serial Attached SCSI - SAS**

SAS is currently the dominant storage technology used in server, workstation and professional class media creation computers.
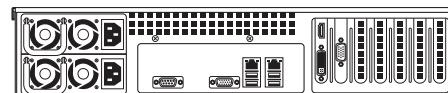
Rear Design

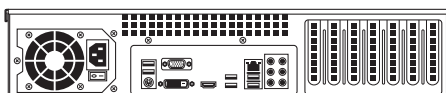**Intel Xeon Series (ATX Power)**

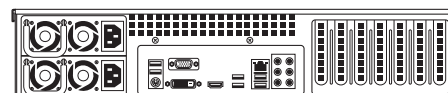
Intel Xeon Series (Redundant Power)

Intel Core i7 Series (ATX Power)

Intel Core i7 Series (Redundant Power)

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Specifications

Model		CHE-NVR8008	
Processing System	Processor	Support Intel Xeon E3-1200V3 and Core i7 processor, as specified below:	
		Intel Xeon E3 Series : 1220V3 3.10GHz; 1230V3 3.30GHz; 1240V3 3.40GHz; 1270V3 3.50GHz; 1280V3 3.60GHz	Intel Core i7 Series : 4770 3.40GHz; 4771 3.50GHz
	Chipset	INTEL high-efficiency chipset	

	Memory Features	1. 4 x 1.5V DDR3 DIMM sockets supporting up to 32 GB of system memory
		     * Due to a Windows 32-bit operating system limitation, when more than 4 GB of physical memory is
		       installed, the actual memory size displayed will be less than the size of the physical memory installed.
		 2. 2 channel memory architecture
		 3. Support for 1333/1600 MHz memory modules
		 4. Support for unbuffered ECC memory modules (Xeon Series)	

I/O System	Display	ATI HD Display Card / Intel HD Graphic	
	Add-on Equipment	Chipset	1. 2 x SATA 6Gb/s connectors (SATA3 0/1) supporting up to 2 SATA 6Gb/s devices 2. 4 x SATA 3Gb/s connectors (SATA2 2/3/4/5) supporting up to 4 SATA 3Gb/s devices
		Independent hard array card (Optional)	1. 8 x SATA 6Gb/s connectors supporting up to 8 SATA 6Gb/s devices 2. Support for RAID 0, RAID 1, RAID 5, RAID 6 and RAID 10
	Network System	Intel Xeon Series : 2 x Intel GbE LAN chip (10/100/1000 Mbit)	Intel Core i7 Series : 1 x Intel GbE LAN chip (10/100/1000 Mbit)
	Peripheral Interface	Intel Xeon Series : 2 x USB 2.0/1.1 ports 2 x USB 3.0/2.0 ports 1 x D-SUB port 1 x DVI-D port 1 x HDMI port 2 x RJ45 ports 1 x Serial port	Intel Core i7 Series : 2 x USB 2.0/1.1 ports 4 x USB 3.0/2.0 ports 1 x D-SUB port 1 x DVI-D port 1 x HDMI port 1 x RJ45 port 1 x PS/2 keyboard/mouse port 6 x Audio jacks
Storage System	Hard Disc	8 hot-swappable SATA/SAS HDD bays support 4/8 HDDs * 8 HDDs support requires optional hard array card.	
Enclosure Power System	Enclosure	2U Rackmount Chassis; 8 hot-swappable bays One super-thin drive bay	

	Power	550W ATX power / 1+1 hot-plug redundant 550W power (optional)
		 * Supports power status memory function. When external power system breaks down and leads to server
		    power failure, the system will automatically start after power system resumes and continues to provide
		    services. There is no need to involve system administrator.	

	Enclosure Dimension(mm)	432(W) x 88(H) x 650(D)	
	Server Weight	28KG/smallest configuration	
Operating System Compatibility	Operating System	1. Microsoft Windows Server 2008; 2008 R2 2. Microsoft Windows 7	
Ambient Adaptability	Temperature Range	10°C to 35°C while operating -40°C to +70°C while not operating	
	Relative Humidity Range	Max. Relative Humidity while Working: 90% RH (40°C) While working: 10% to 90% RH Loading: 10% to 93% RH Storage: 10% to 95% RH	
Dimension (mm)		435(W) x 88(H) x 690(D)	