

CHE-NVR8016

Mass Storage Server



Overview

Checol CHE-NVR8016 is a 3U 16-bay storage server designed for high-density storage needs. Though only 3U, it supports 16 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

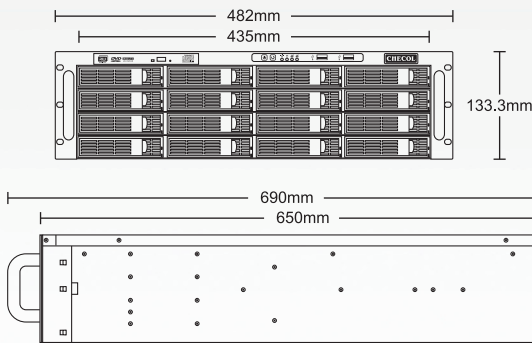
The use of latest Intel Xeon processor provides higher performance for various user applications. Compared with its predecessors, Intel Xeon E3 series incorporates major improvements, including integration of memory controller into the processor, thus removing the FSB-caused architectural memory bottleneck 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 expand up to 32GB. Maximally supports 16 hot-swappable SATA/SAS HDDs; provides 3 PCI-E expansion slots.



Dimensions



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-NVR8016 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

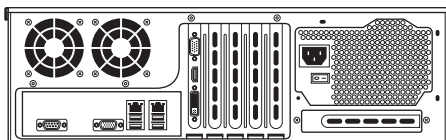
❖ 2 Channel Memory Architecture

❖ Serial Attached SCSI - SAS

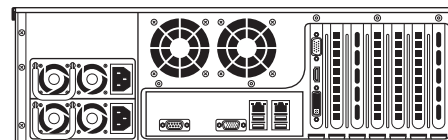
SAS is currently the dominant storage technology used in server, workstation and professional class media creation computers.

Rear Design

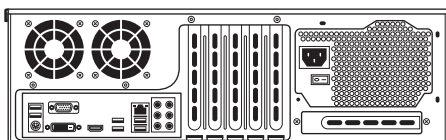
Intel Xeon Series (ATX Power)



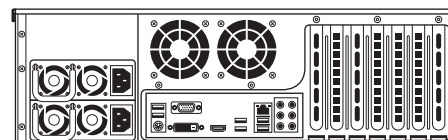
Intel Xeon Series (Redundant Power)



Intel Core i7 Series (ATX Power)



Intel Core i7 Series (Redundant Power)



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NVR

Specifications

| | | | | |
|---------------------------------------|--|--|--|---|
| Model | CHE-NVR8016 | | | |
| Processing System | Processor | Support Intel Xeon E3-1200V3 and Core i7 processor, as specified below: <table border="1"> <tr> <td>Intel Xeon E3 Series : 1220V3 3.10GHz; 1230V3 3.30GHz; 1240V3 3.40GHz; 1270V3 3.50GHz; 1280V3 3.60GHz</td> <td>Intel Core i7 Series : 4770 3.40GHz; 4771 3.50GHz</td> </tr> </table> | 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 |
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| | Chipset | INTEL high-efficiency chipset | | |
| Memory Features | 1. 4 x 1.5V DDR3 DIMM sockets supporting up to 32 GB of system memory <i>* 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.</i> 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. 16 x SATA 3Gb/s connectors supporting up to 16 SATA 3Gb/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 | 16 hot-swappable SATA/SAS HDD bays support 4/16 HDDs <i>* 16 HDDs support requires optional hard array card.</i> | | |
| Enclosure | Enclosure | 3U Rackmount Chassis; 16 hot-swappable bays One super-thin drive bay | | |
| Power System | Power | 550W ATX power / 1+1 hot-plug redundant 550W power (optional) <i>* 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.</i> | | |
| | Enclosure Dimension(mm) | 432(W) x 132(H) x 650(D) | | |
| | Server Weight | 35KG/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 133.3(H) x 690(D) | | | |

* All Specifications / colors are subject to change without notice. (V.04)