



## 4-Bay Gigabit Network Storage

GNS-4001



H/W Version: 1

### Product Overview

The LevelOne GNS-4001 4-bay Network Storage is designed specifically for home offices, small businesses and workgroups. Never before has there been available a centralizing management of Network Attached Storage (NAS) system with a space-saving footprint and large capacity that gives user the benefits of a big-time data centre without big-time IT department needed. By utilizing iSCSI network storage server storage and supporting ISO file for a great deal to do monitoring of storage, backup, archiving, and file sharing. GNS-4001 is suitable for IP Surveillance that can easily be implemented as network storage or as a supplement to your primary backup and recovery device.

### Advanced Data Storage & File Sharing

As the data value and volume of business data continue to rise, corporations need high-performance storage solutions which are secure, reliable, and easy to manage. Our NAS provides both iSCSI service and network storage solutions which can be easily utilized in different business and enterprise applications such as backup center, disaster recovery, file sharing, virtualization and video editing storage.

### Complete Backup Solutions

The NAS offers the following comprehensive RAID (Redundant Array of Independent Disks) levels and fault-tolerant disk configurations: 0 "striping", 1 "mirroring", 5 "parity", 5+hot spare, 6 "double distributed parities", 6+hot spare, 10 "RAID 1+RAID 0", 10+hot spare, single disk and Linear Disk Volume i.e., JBOD (Just a Bunch Of Disks). In addition, it supports Hot-swapping, SmartSync for data replication, RAID bad sector recovery, and Disk Server. All these features enhance maximum data protection against hardware failure.

### IP Surveillance Solution

Apart from the data sharing service provided by NAS, you can also set up a video surveillance system for your business via the built-in iSCSI functionality. Video surveillance is much cheaper and no longer complicated these days. Depending on your existing network topology, if you have network cameras and an IP CamSecure Server already placed, then all that is required is to configure an iSCSI target disk volume on the NAS for the video surveillance system and to install an iSCSI initiator on the IP CamSecure Server which will communicate with the iSCSI target automatically.

### Key Features

- Provides RAID (0/1/5/6/10) technology for advanced data security and improved performance
- Features iSCSI function to optimize data protection and simplify IP-SAN storage deployment
- Dual Gigabit Ethernet ports for trunking and failover
- Provides real-time Antivirus Scan Engine to protect server against blended threats
- High-performance Intel 2.0 GHz CPU and 1GB RAM allows to expand up to 4GB
- Features cross-platform file sharing amongst Windows, Mac, Linux and Unix OS
- Ideal solution for running intensive multimedia application – video streaming

### Relate Products



#### FCS-5051

Day/Night 2-Megapixel PoE Outdoor Network Camera



#### GEP-2450

24 GE PoE with 4 Dual Speed Combo SFP Web Smart Switch

## Technical Specification

### Hardware Specification

**CPU:**

Intel CM550 (2.0G/1M/533MHz)

**Memory:**

1GB DDR II, up to 4GB

**Flash:**

1GB Flash Card

**LAN:**

2 x10/100/1000Mbps Gigabit Ethernet ports

**HDD:**

Support 4 hot-swappable SATA II 3.5" HDD  
(Maximum Raw Capacity 12TB)

**USB:**

2 x USB 2.0 Host

**LED:**

Power, HD Access, LAN 1, LAN 2, Disk 1, Disk 2, Disk 3, Disk 4

**Switch:**

Power on/off

### Software Specification

**Network Client:**

Windows 98/ME/2000/2003/XP/Vista/2008 server / Windows 7,  
Mac OS 8.x/9.x/10.6.x, Linux, Unix

**Networking TCP/IP:**

HTTP, HTTPS, FTP, FTPS

Supports connection types: Stand Alone(Multi-IP Settings),  
Fault Tolerance, Load Balancing, IEEE 802.3ad/Link Aggregation

**File Sharing Protocol:**

CIFS/SMB over TCP/IP, FTP, NFS, AFP

**File System:**

Journaling file system EXT3 (for internal HDD)  
FAT16/32 (for USB device)

**Disk Management:**

RAID JBOD, 0.1.5.6.10  
Disk Scan (Manual/Schedule)  
Disk S.M.A.R.T (Manual/Schedule)  
Hot spare  
Hot expand  
Volume migrate  
ISO Mounting: Max 1536 File

**Data Backup:**

Support Windows "Backup and Restore"  
Driver Backup (Internal HDD vs USB HDD)  
NAS-to-NAS data synchronization with Smart Sync  
Advanced RAID bad sector recovery mechanism  
Support CD-R/RW and DVD±RW, Blu-ray burning capability  
Support smart-signaling UPS, USB UPS and network UPS

**User Management:**

User account: 20480  
Disk Quota by user  
Password authentication

**Share Folder:**

Share folder: 200~400  
Share folder access right management (by user)

**Log:**

System log  
Security log  
Device Log  
Unicode support for CIFS  
Multiple language support for FTP/HTTP  
System Function  
Date/Time/Daylight  
NTP client

**Security:**

Share permission  
User/Folder quota  
Build-in Trend Micro antivirus software (free)  
Support UNIX Network Information Service (NIS)  
Support Access Control List (ACL)  
Secure Sockets Layer (SSL) 128-bit encryption

**Recycle Bin:**

For each share folder

**Storage:**

FTP/Samba/Windows File Sharing Server

**Multilingual Support:**

Localized web-pages: English, Traditional Chinese, Simplified Chinese, Korean, Japanese, French, German, Italian, Spanish  
Unicode UTF-8

**Browser Support:**

Internet Explorer 7 & 8 or Later  
Firefox 3 or Later  
Safari 3 & 4 or Later  
Google Chrome

### Physical Specification

**Power Supply:**

350W ATX Power Supply 80 plus compliance  
AC 100-240V, 50-60Hz, 2A-4A

**Temperature:**

Operating Temperature: 0°C to 40°C  
Storage Temperature: -20°C to 70°C

**Humidity:**

Operating Humidity: 10% - 80% (on-condensing)  
Storage Humidity: 0% - 90% (on-condensing)

**Power consumption:**

196W (with 4 SATA HDD)

**Dimensions:**

415(D) x190 (W) x 260mm (H)

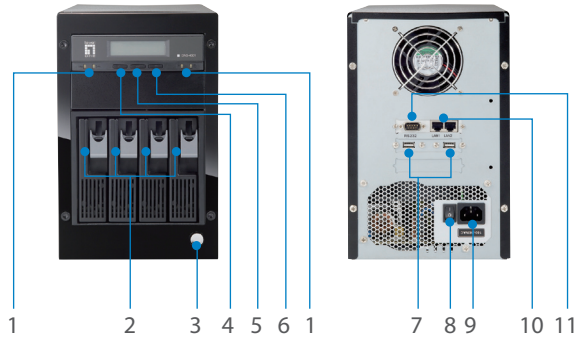
**Weight:**

9.3KG (Not included Hard Disk)

**EMI and Safety:**

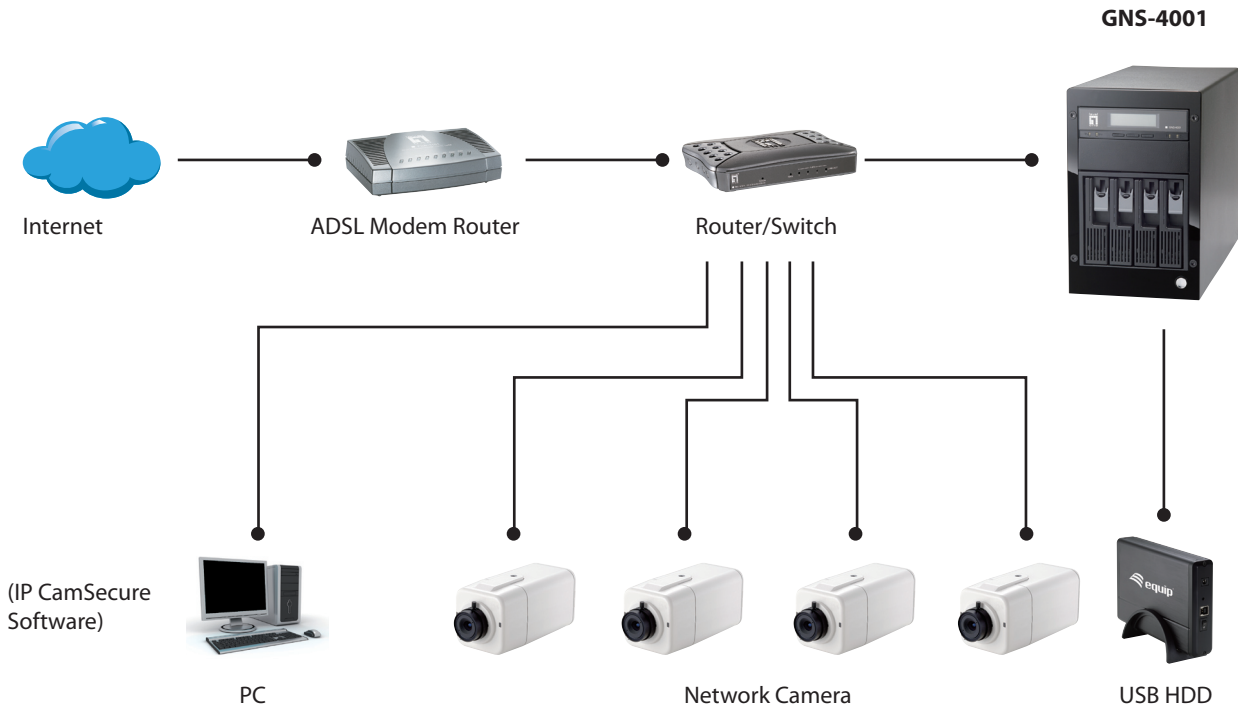
FCC, CE

## Front View and Rear View



1. LED Indicators
2. Disk LEDs
3. Power Switch
4. Back Button
5. Finish Button
6. Next Button
7. USB Ports
8. Power on / off Switch
9. Power Socket
10. LAN Ports
11. RS-232 Port

## Product Diagram



## Order Information

### Package Content

**GNS-4001:** 4-Bay Gigabit Network Storage

- GNS-4001
- Quick Installation Guide
- CD Manual/Utility
- Power Cord

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