



***High Speed 4-bay Network Area Storage NAS built on Standard PC motherboard and LINUX-UBUNTU server and desktop client with remote graphical desktop capabilities***

## **Hardware**

Open system based on standard form factor Mini-ITX motherboard enables wide range of CPUs and DRAM capacity  
PCI Express 2.0 x16 standard expansion slot enabling additional functionality

High performance CPU

Up to two internal 2.5" hard drive both for user space and for applications plus 4-bay of 3.5"/2.5" drives up to total of 16TB

On board interface for dual monitors VGA and DVI ports

## **Open system**

Open UBUNTU server and client enable easy download and integration with free and 3rd party applications

Can integrate with multiple communication interfaces such as Ethernet, WIFI, Firewire, Bluetooth, GSM and more

## **Operating system**

Integrated fully fledged Linux UBUNTU server with UBUNTU desktop client to enable easy local and remote graphical desktop interfacing

Flexible and reliable storage system using Logical Volume Management (LVM) over RAID.

## **Applications**

- ✓ **Enables access to data files & documents sharing from anywhere** - all the computers in a business and/or home network, any other remote or local computer or other mobile device (smartphones, tablets, laptops & PCs) via the Internet.
- ✓ A comprehensive base for home **entertainment applications Media Center** for streaming your music, your photos and your videos to a media player within your network or a network-enabled television - directly and without a computer.
- ✓ Advanced **backup utilities** to protect and recover your data
- ✓ Can be set up as **Surveillance Station with IP Cameras & USB cameras**
- ✓ Can be set up as advanced communications center

Easy and **simple Set-up & Management**

## **Education**

Open system with many free available software development and system management tools

## **Low cost**

Huge savings on open source software replacing very expensive server/client operating system as well as applications makes it ideal for education system, and small businesses as well as private users.



**KeyScan Inc.**  
 95 Christopher Columbus Dr. Fl 12A  
 Jersey City, NJ 07302  
 Phone: 201-918 2396  
 Email: [sales@keyscan.com](mailto:sales@keyscan.com)

## Technical Specs

<b>Model</b>	<b>KS-NAS-120</b>
Segment	SOHO/SMB & Education
<b>Hardware</b>	
Built-in client desktop	yes
CPU	AMD Dual-Core E-350
Graphics	Built-in AMD Radeon HD6310 Graphics
Chipset	AMD FCH A50 (Hudson M1)
Audio	VIA VT1708S HD CODEC
RAM Memory	2xDIMMs expansion slots, max 8GB , DDR3 1066/800MHz, non-ECC un-buffered
Installed RAM memory	4GB
Operating-System memory	Internal 2.5" hard drive with external memory stick backup
Expansion slots	1xPCI Express 2.0 X16 slot
SATA hard drive interface	SATA 6.0Gb/s
Max. number of HDDs/SSDs supported	built-in SATA 6.0Gb/s drives interfaces:
High speed data transfer	Up to 80 MB/sec
HDD S.M.A.R.T.	yes
eSATA	with optional expansion card
Gigabit LAN Ports	1 built-in (Realtek 8111e) plus 1-4 additional ports with optional expansion cards
Wireless LAN	with optional expansion card or USB dongle
GSM Cell connection	with optional expansion card or USB dongle
USB 2.0	6 on the back panel, 1 on the front panel & 5 internal
VGA	yes
DVI	yes
LED Indicators	yes
LCD Display/ Button	yes
Motherboard Form Factor	Mini ITX
Dimensions (DxWxH) mm	9.5x7x8.5
Power Supply Specification	250w
Smart fan	yes
<b>Operating System</b>	
Server-OS	LINUX-UBUNTU server
Built-in Client desktop	UBUNTU desktop client with remote graphical desktop capabilities (VNC)
Operating-System storage: Internal 2.5" SATA Hard Drive	internal 1x 2.5 SATA drive , EXT4 file system for the Linux operating system
Operating System factory recovery:	USB memory stick
Operating-System backup:	internal 1x 2.5 SATA drive , EXT4 file system for the Linux operating system backups
System software upgrade	yes
<b>System log and Support</b>	
Remote interface actions and errors log	yes
PHP my admin	yes
VNC remote desktop	yes
<b>Storage Settings Support</b>	
RAID 0,1,5,6,10, JBOD	yes
Logical Volume Management (LVM)	yes
iSCSI Target	yes
NFS	yes
Users quota setting	yes
Remote storage settings & management through WEB browser interface	yes
Remote management through VNC	yes
<b>Supported Connection to Client Platform</b>	
Microsoft Network (CIFS/ SMB) to Windows XP, Vista, 7, 8 & servers	yes
Mac (AFP v3.3)	yes
Linux (NFS v3)	yes
Internet (HTTP)	yes
<b>Optional Built-in Servers</b>	
FTP	yes
Secure Internet (HTTPS)	yes
SSH	yes
Apache Internet server	yes
DHCP Server	yes
Dynamic DNS	yes
LDAP Server & Client	yes
Mail	yes
iTunes Server	yes
DLNA Media Server	yes
BT server	yes
VPN Server (PPTP + OpenVPN)	yes
Syslog Server	yes
Antivirus	yes
RADIUS Server	
<b>Applications</b>	
MySQL	yes
Cloud applications	yes
Multimedia Station	yes
Photo Station	yes
Music Station	yes
Surveillance Station	yes
IP Cameras & USB cameras	yes
Download Station (BT/Magnet Link/HTTP/FTP download)	yes
Remote download management software (QGet)	yes
<b>Education &amp; Developer platform</b>	
C, C++, JAVA, HTML, PHP, Python, Perl and more	yes
Open system allow upgrades with any Linux/Ubuntu compatible software	yes