BUFFALO™

World Leader
Consumer NAS
6 years
in a row

Source: In-Stat

www.buffalo-technology.com

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partner.buffalo-technology.com

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Storage   Wireless   Multimedia

Product Overview

NAS Solutions

Buffalo™ provides storage solutions for both the home and business environments. Buffalo™ LinkStation™ and TeraStation™ Network Attached Storage (NAS) products provide a central and secure location to store, access and share files. The external solutions are designed with features, performance and reliability in mind.

Storage Solutions

Buffalo™ storage solutions will allow you to store all your data in one place. Plug them in and immediately have easy and fast access to additional storage, for example on a DriveStation™. If you want to take your data with you, you can use a MiniStation™ with Encryption to be save even in case of loss.
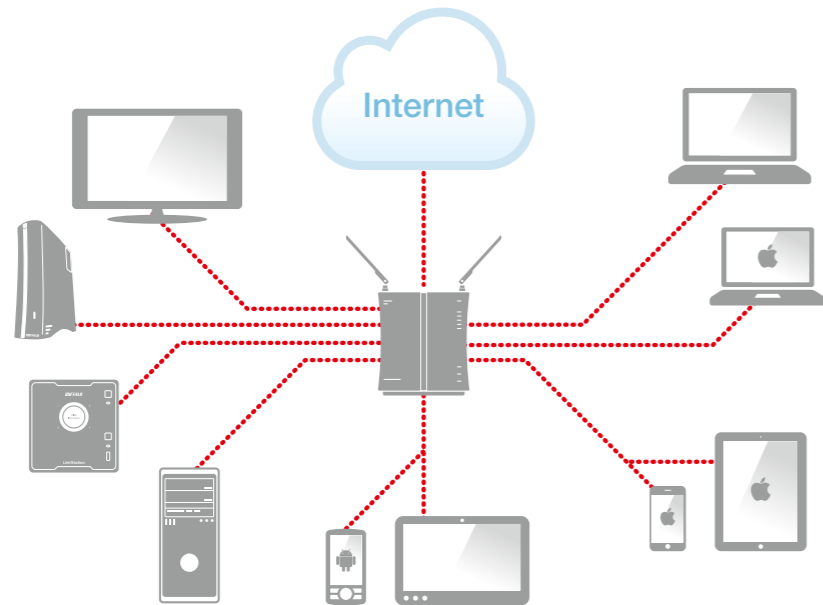
Wireless Solutions

Buffalo™ range of Wireless products offer simple and secure networking solutions for the home and business. With a variety of routers, access points and adapters to suit all needs and requirements.

BUFFALO™

Buffalo™ at Home

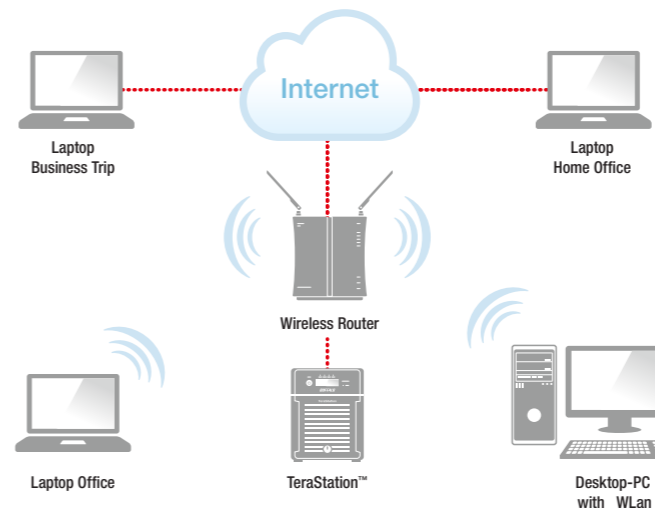# Buffalo™ in the Office

BUFFALO™

Internet

A home network is simply a method for allowing multiple devices such as computers, game consoles and multimedia solutions to communicate and share information e.g. an Internet connection, multimedia files, documents and a printer.

The different network types use different hardware, but they all have the same essential components:

- More than one computer
- Consists of hardware, such as a router or software that is either built in to the system or as a separate application, to coordinate the exchange of information
- A Wireless link for the information to follow from one computer to another

Buffalo™ provide a range of products you can use for your home computer networks, whether for use with the family for file sharing, storing and streaming of music and videos, or accessing the Internet, from anywhere in your home or office by connecting with Buffalo™ Wireless range of products.

Laptop
Business Trip

Internet

Laptop
Home Office

Wireless Router

Laptop Office

TeraStation™

Desktop-PC
with WLan

If a business has more than one computer it could benefit from networking them together. A local area network (LAN) connects computers, allowing them to share and exchange a variety of information. Here are some of the ways a computer network can help a small business:

File sharing
A network makes it easy to access the same file and prevents people from accidentally creating different versions.

Printer sharing
With a network, several computers can share the same printer.

Communication and collaboration
A network allows employees to share files, view other people's work and exchange ideas more efficiently.

Remote access
With remote access users are able to access the same files, data and messages even when they're not in the office.

Data protection
It's vital to back-up computer data regularly and to store online information in a fail safe system, a networked or RAID device makes this possible.

Buffalo™ has a range of products perfect for the office environment and offer all the benefits and features an enterprise size company would expect, ensuring small and medium sized businesses stay protected, safe and secure.

What is Storage and why do we need it?

BUFFALO™

Storage systems are defined by technology, connectivity and capacity. These are the key elements that need to be considered before choosing the right storage solution.

Direct Attached Storage (DAS) – Simple and fast
Direct Attached Storage (DAS) or External Storage is connected directly to your computer. There are three main connectivity technologies available on the market today.

- **USB 2.0:** Still the most common interface for external storage
- **USB 3.0:** Three times faster than USB 2.0 and backwards-compatible
- **FireWire:** more common in the Apple® MAC world and in high-end laptops, available in two variants Firewire 400 (400Mbps) and Firewire 800 (800Mbps)
- **eSATA:** more widely available in newer computers. It is the first external connection designed specifi cally for Storage.

Network Attached Storage (NAS)
Network Attached Storage (NAS) is the term used to describe a complete storage system which is attached to a business or home network. Within the NAS several hard disk drives can be joined together to give greater capacity and in the event of drive failure, added piece of mind that the data stored is safe and secure. NAS is the better choice if you want to share data with several computers, whether you're at home or you need additional storage for your business. You can simply connect a Network Attached Storage (NAS) device to your network and access it from anywhere, even via the Internet.

Network Attached Storage (NAS)

Storage Technologies

BUFFALO™

What is RAID?
RAID is an acronym of "Redandant Array of Independent Disks". The idea is to combine standard drives into an array which performs better than a single disk and at the same time your computer sees it as a standalone drive. This technology can be used in different ways to achieve different results called RAID Levels/Modes.

Why would you need RAID?
- For "Speed and Capacity"
- If you need "Maximum Redandancy"
- If you require an "Increase in Capacity" with simple redandancy
- For a perfect combination of speed and security

RAID Levels/Modes

Standard Mode: The controller treats each drive as a stand-alone disk, therefore each drive is an independent logical drive with its own drive letter. Standard Mode

does not provide data redandancy. It is not a RAID in the sense of the meaning. Nevertheless it is among the RAID levels because the RAID controller manages it.

RAID 0: Or striping mode is used to achieve higher storage capacities with maximum speed. The data is split among several disks that are written at the same time. So for example 2 drives of 250GB capacity in RAID 0 are faster than a single 500GB drive.

RAID 1: Or mirroring mode is used to make an exact copy of data on each disk in the array. In this mode the capacity is half the capacity of all the hard drives within the array.

RAID 5: Or parity mode distributes data across multiple disks making the system fail proof. In this confi guration the total capacity of the system is (N-1)*GB where "N" is the number of disks you have in the array, so for example four disks of 250GB capacity provides 750GB of total usable storage. In some more advanced systems is it possible to combine different RAID modes together.

RAID 10: Best used for speed and redandancy. It is a combination of Mode 0 and Mode 1 and gives the read/write speed of RAID 0 and the redandancy of RAID 1.

RAID 50, 51, 60 & 61: A combined RAID mode, available on TeraStation™ with 6 and 8 slots.

What is WebAccess?
Buffalo™ unique WebAccess feature allows users to instantly share and access their pictures, music or other files with friends and family via any Web browser. WebAccess is also available on all mobile devices with a web browser and via an app, WebAccess-i for the Apple iPhone®, or the Apple iPad®.

What is Buffalo Tools Software Suite?
The Buffalo Tools suite of complimentary software offers enhancements such as TurboPC and Turbo Copy which help to increase fi le transfer and copy performance by up to 2x faster compared to standard USB 2.0 portable hard drives, whilst Buffalo Backup software offers easy data backup and restore solutions.

What is SecureLockWare™?
Buffalo™ SecureLockWare™ is a free software security tool which offers a range of security options to encrypt your confi dential data. SecureLockWare™ offers two security options:
- Drive encryption: Encrypt your entire storage media with SecureLockWare™. All data on the device is secured and impossible to access.
- File/Folder encryption: Encrypt individual files or folders.

Secure Lock Mobile™ creates an encrypted container that offers immense advantages. Instead of encrypting the entire drive, you simply place the files and folders you want to protect in the container, where they are secure.

Secure Lock Manager Easy is included with our hardware-encrypted disk drives and is used to manage the encryption function. You can also mount the encrypted drive automatically on a trusted computer.

FIVE OPERATING MODES FOR MAXIMUM FLEXIBILITY:

RAID 10 Mode 500 GB	RAID 5 Parity Mode 750 GB	RAID 1 Mirroring Mode 500 GB	RAID 0 Striping Mode 1 TB	Standard Mode 250 GB x 4
D:	D:	D: E:	D:	D: E: F: G:
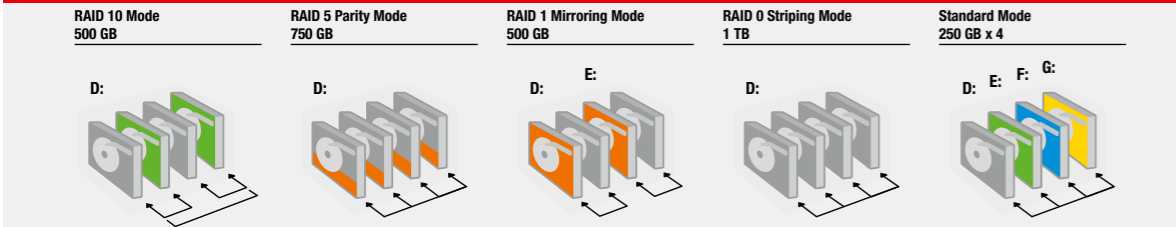
Storage Technologies

What is Novastor?
NovaBACKUP® 11 protects the data on workstations and servers locally or online. Available on Buffalo LinkStation™ and TeraStation™ products, regardless of theft, user error or hardware failure NovaBACKUP® protects and restores your data.

What is BitTorrent™?
BitTorrent™ is a protocol or a set of rules and descriptions of how to do things, which allow you to download files quickly by allowing people downloading the file to upload or distribute parts of it at the same time.

What is Blu-ray™?
Blu-ray™ Disc (also known as Blu-ray™ or BD) is an optical disc storage format to supersede the standard DVD format. Its main uses are for storing games, high-definition video and data storage with up to 25GB on a single-layer disc and 50GB on a dual-layer disc. The disc has the same physical dimensions as standard DVDs and CDs.

What is DLNA?
DLNA (Digital Living Network Alliance) allows many different devices, regardless of brand, to "talk" to one another so everyone in your home can share a common pool of fi les. No more plugging, copying, searching and importing just to print a photo from your mobile phone. DLNA is for anyone who wishes it were easier to share multimedia files around the home. Buffalo™ NAS products include a DLNA media server.

Schedule Power Management System
Buffalo™ Technology is mindful of the importance of being green by developing products that are energy efficient. For flexible power management and to reduce CO_2 emissions, each Buffalo™ product is equipped with the Power Management System which automatically turns on and shuts down with your PC, helping you to do "your bit" for the environment.

What is Trend Micro™?
Antivirus software for TeraStation™ products. The expansion pack includes a license key for the preinstalled Trend Micro™ antivirus software for NAS systems. Protects TeraStation™ servers against viruses, Trojans, bots and other malware.

Wireless Technologies

What is Buffalo Client Manager?
Client Manager is the WLAN configuration software from Buffalo Technology. It ships as Version 3 for Windows XP and Version V for Windows Vista and Windows 7, and is compatible with the 32 - and 64-bit versions of these operating systems. The program is standard on all wireless client adapters and wireless routers from Buffalo Technology. This software enables you to connect your wireless client with a wireless router or access point, and with other client devices (ad hoc). It offers range of advanced settings such as 802.1x authentication, WPA/WPA2 support, default printer settings, proxy and IP address settings and much more besides – a choice of options that few other client managers can match.

Client Manager is also a key component in the AirStation One-Touch Secure Setup technology (AOSS) by Buffalo. With AOSS, you can set up a connection between wireless clients and an AOSS wireless router or access point at the touch of a button. AOSS manages security automatically and sets up the highest level of encryption possible while maintaining client compatibility. The Client Manager now works with most wireless client adapters from other manufacturers. These include wireless expansion cards as well as integrated wireless chipsets for notebooks, such as Centrino and other built-in wireless solutions.

What is High Power?
The Buffalo™ High Power Technology extends the range of standard 802.11g Wireless networks by up to 70% and improves overall performance by up to 50%.

What is Nfiniti™ Dual Band?
This is the Buffalo™ implementation of the 802.11n standard with 2.4 and 5 GHz bandwidth. Often, traffic on the 2.4 GHz bandwidth is very heavy, so the signal quality may be lower. The 5 GHz bandwidth offers you a genuine alternative. You can also use the two networks simultaneously, which balances loads more effectively when there are a large number of WLAN clients.

What is AOSS™?
Buffalo™ AirStation One-Touch Secure System™ (AOSS™) makes setting up a secure Wireless network as easy as pushing a button. All Buffalo™ routers and adapters have this feature built-in. With AOSS, users can set-up the securest Wireless network, easily and quickly.

Network Attached Storage for Business

BUFFALO™

The Buffalo™ TeraStation™ family are larger capacity Network Attached Storage products with RAID capability. If a drive fails, the Hot Swap functionality on the TeraStation™ automatically powers down the faulty drive, enabling you to safely remove and replace without losing any data, or down time. The Real Time Replication function allows the connection of a second TeraStation™ via LAN port and replicates the data to improve reliability, fault tolerance or accessibility. The perfect solution for the home office or small to medium business that needs large, easy-to-deploy, easy-to-manage, redundant network attached storage.

	TeraStation™ ProSeries Duo	TeraStation™ ProSeries 4 Bay	TeraStation™ ProSeries 6 Bay	TeraStation™ ProSeries 8 Bay	TeraStation™ ProSeries Rackmount	TeraStation™ Duo	TeraStation™ III	TeraStation™ III Rackmount
Number of Drives	2	4	6	8	4	2	4	4
Capacities	2 TB, 4 TB and 6 TB	4 TB, 8 TB and 12 TB	6 TB, 12 TB and 18 TB	8 TB, 16 TB and 24 TB	4 TB, 8 TB and 12 TB	2 TB and 4 TB	4 TB, 8 TB and 12 TB	4 TB and 8 TB
USB Ports	2 x USB 3.0, 2 x USB 2.0	2 x USB 3.0, 2 x USB 2.0	2 x USB 3.0, 2 x USB 2.0	2 x USB 2.0	2 x USB 3.0, 2 x USB 2.0	2 x USB 2.0	2 x USB 2.0	2 x USB 2.0
LAN Ports	2	2	2	2	2	2	2	2
Supported RAID Levels	0, 1 and JBOD	0, 1, 10, 5, 6, JBOD	0, 1, 10, 5, 6, 50, 60, JBOD	0, 1, 5, 6, 10, 50, 51, 60, 61 and JBOD	0, 1, 5, 6, 10 and JBOD	0, 1 and JBOD	0, 1, 5, 10	0, 1, 5, 10 and JBOD
Processor speed	CPU: Intel Atom D510 1.66GHz 64-Bit Dual Core, up to 100 MB/s					up to 69 MB/s		
Active Directory	✔	✔	✔	✔	✔	✔	✔	✔
Drive Interface	SATA	SATA	SATA	SATA	SATA	SATA II	SATA	SATA
Hot Swap	✔	✔	✔	✔	✔	✔	✔	✔
Realtime Backup Replication	✔	✔	✔	✔	✔	✔	✔	✔
WebAccess	✔	✔	✔	✔	✔	✔	✔	✔
DLNA™ Media Server	✔	✔	✔	✔	✔	✔	✔	✔
NovaBACKUP® Business Essentials-10 User Licences	✔	✔	✔	✔	✔	✔	✔	✔
BitTorrent™	✔	✔	✔	✔	✔	✔	✔	✔
Apple Time Machine®	✔	✔	✔	✔	✔	✔	✔	✔
Apple Bonjour®	✔	✔	✔	✔	✔	✔	✔	✔
iTunes® Integration	✔	✔	✔	✔	✔	✔	✔	✔
Power Management System	✔	✔	✔	✔	✔	✔	✔	✔
Chassis	Desktop	Desktop	Desktop	Desktop	1HE-Rackmount	Desktop	Desktop	1HE-Rackmount
Operating System Support	Windows® 7 (32 and 64Bit), Windows® Vista™ (32 and 64Bit), Windows® XP (32 and 64Bit), Windows® 2000, Windows XP Media Center Edition 2004/2005, Windows Server 2003/2008 (32 and 64Bit), Mac OS X 10.3.9 or higher							
Warranty Support	3 Years							
Product Code	TS-WVH2.0TL/R1EU TS-WVH4.0TL/R1EU TS-WVH6.0TL/R1EU	TS-QVH4.0TL/R6EU TS-QVH8.0TL/R6EU TS-QVH12TL/R6EU	TS-6VH6.0TL/R6EU TS-6VH12TL/R6EU TS-6VH18TL/R6EU	TS-8VH8.0TL/R6EU TS-8VH16TL/R6EU TS-8VH24TL/R6EU	TS-RVH4.0TL/R6EU TS-RVH8.0TL/R6EU TS-RVH12TL/R6EU	TS-WX2.0TL/R1 TS-WX4.0TL/R1	TS-X4.0TL/R5-EU TS-X8.0TL/R5-EU	TS-RX4.0TL/R5-EU TS-RX8.0TL/R5-EU

World Leader Consumer NAS
6 years in a row

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TeraStation™ Windows Storage Server™

Windows Storage Server 2008 R2

The Buffalo™ WS-QVL Windows Storage Server 2008 R2 Workgroup Edition has been specially designed to provide an entry Network Attached Storage (NAS) solution for small office/Medium office environments that fully integrates within a Windows environment. Create effective NAS solutions that can adapt to and solve the simplest or most complex storage needs, with the ease and familiar intuitive administration that Windows brings.

The Buffalo™ WS-QVL Windows Storage Server 2008 R2 Workgroup Edition provides a fast and reliable platform, built on the proven Windows Server™ 2008 R2 family code base with all of its superior security, stability and management advantages. With new search capabilities, simplified set-up and storage management, and is specially tuned by Buffalo™ to provide optimal NAS performance.

Windows File Sharing and Network File System (NFS)
High-performance SMB/CIFS for Windows and NFS/SMB inter-operability.

Predictable and Easy to Adopt
As the Buffalo™ Windows Storage Server 2008 R2 Workgroup Edition shares the same code base as the Windows Server™ 2008 R2 family code, there is no need for separate application compatibility testing. Also, antivirus and back-up applications that work with Windows Server 2008 operating systems will work with Windows Storage Server 2008 R2.

Search Enhancements
Indexing Service extracts the information from a set of documents and organises it in a way that makes it quick and easy to access that information through the Search function for computers running Windows. This information can include text from within a document (its contents), and the characteristics and parameters of the document (its properties), such as the author's name.

MMC Administration Model
Common, intuitive user experience across Windows-based products.

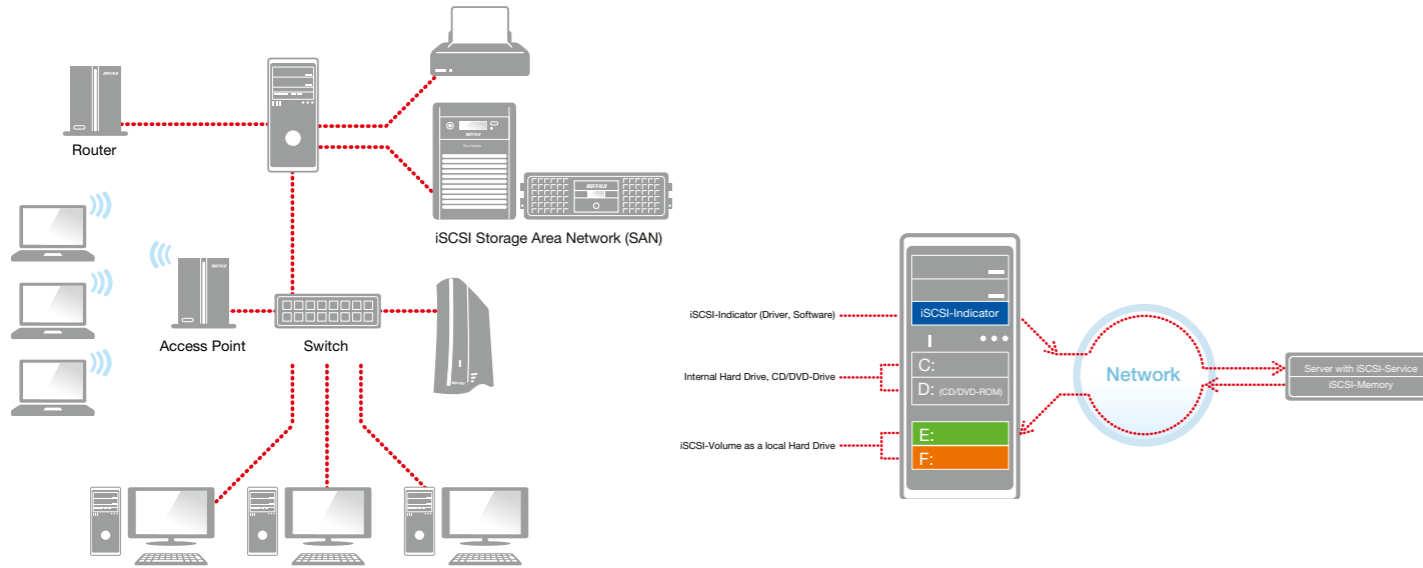|	TeraStation™ Pro Duo WSS	TeraStation™ Pro Quad WSS	TeraStation™ Pro 6 WSS	TeraStation™ Pro Rackmount WSS
Number of Drives	2	4	6	4
Capacities	2TB and 4TB	4TB and 8TB	6TB and 12TB	4TB and 8TB
USB Ports	2 USB 3.0 / 2 USB 2.0	2 USB 3.0 / 2 USB 2.0	2 USB 3.0 / 2 USB 2.0	2 USB 3.0 / 2 USB 2.0
LAN Ports	2	2	2	2
Supported RAID Levels	0, 1 and JBOD	0, 1, 5 and JBOD	0, 1, 5 and JBOD	0, 1, 5 and JBOD
Active Directory	Seamless Integration			
Drive Interface	SATA (3 Gbit/s)	SATA (3 Gbit/s)	SATA (3 Gbit/s)	SATA (3 Gbit/s)
Hot Swap / Hot Spare	✓	✓	✓	✓
NovaBACKUP® Business Essentials - 10 User Licences	✓	✓	✓	✓
Chassies	Desktop	Desktop	Desktop	Rackmount
Operating System Support	Windows® 7 (32 and 64Bit), Windows® Vista™ (32 and 64Bit), Windows® XP (32 and 64Bit), Windows® 2000, Windows XP Media Center Edition 2004/2005, Windows Server 2003/2008 (32 and 64Bit), Mac OS X 10.3.9 or higher			
Warranty Support	3 Years			
Product Code	WS-WV2.0TL/R1 WS-WV4.0TL/R1	WS-QV4.0TL/R5-EU WS-QV8.0TL/R5-EU	WS-6V6.0TL/R5-EU WS-6V12TL/R5-EU	WS-RV4.0TL/R5-EU WS-RV8.0TL/R5-EU

iSCSI-Storage

What is iSCSI?
Unlike Network Attached Storage, iSCSI is not placed within the Local Area Network (LAN). An iSCSI device is attached directly to a server via an Ethernet Card within the server or via an Ethernet switch, creating a Storage Area Network (SAN). iSCSI allows the centralisation of storage without the expense normally associated with fibre channel SANs or HBA controllers. Unlike a NAS device, users on the LAN cannot view the iSCSI device and any available storage is seen as an additional drive within the server.

Why iSCSI?
iSCSI allows for the seamless integration of new storage into any servers operating system, there is no need for any additional setup or configuration such as Access Control Lists (ACL) centralised user access management. iSCSI gives the ability to have a greater amount of storage capacities with no limitation to the siz e, therefore there is no need to stop and open the server to add more HDD – iSCSI adds additional external capacity. It is also easy to scale with existing iSCSI storage solutions, simply expand by adding more iSCSI devices (targets). No need for additional expensive server HDD, use the existing server and hardware. Attach the iSCSI device into an already existing LAN to enhance the server capacity.

Router

iSCSI Storage Area Network (SAN)

Access Point   Switch

iSCSI-Indicator (Driver, Software)

iSCSI-Indicator

Internal Hard Drive, CD/DVD-Drive

C:
D: (CD/DVD-ROM)

iSCSI-Volume as a local Hard Drive

E:
F:

Network

Server with iSCSI-Service
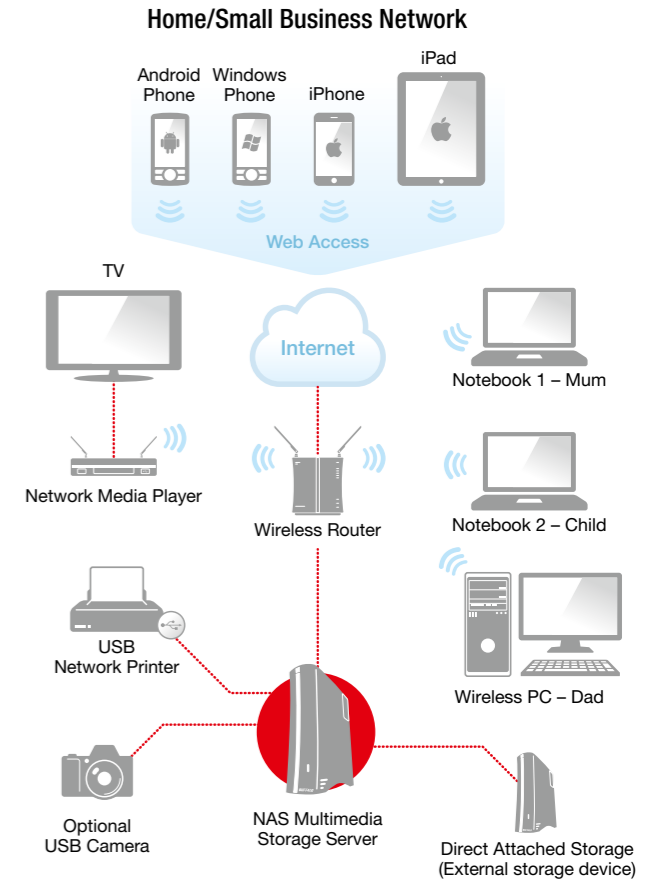iSCSI-Memory

Buffalo™ iSCSI-Storage

Buffalo™ TeraStation™ iSCSI is a storage solution targeted at the SMB. This affordable storage system uses the existing Ethernet infrastructure to communicate iSCSI storage commands over the network. The TeraStation™ iSCSI is the ideal solution to back-up your servers more efficiently, consolidate your existing storage systems and increase redundancy and data security.

	TeraStation™ iSCSI Desktop	TeraStation™ iSCSI Rackmount
Number of Drives	5	4
Capacities	4TB	4TB and 8TB
LAN Ports	2	2
Supported RAID Levels	0,1,5,10 and JBOD	0,1,5,10 and JBOD
Data Transfer Rate	70 MB/s	70 MB/s
Drive Interface	SATA	SATA
Quick Swap	✓	✓
Hot Swap/Hot Spare	✓	✓
Chassis Design	Desktop	1U 19" (48,26 cm) Rackmount
VMware Ready™	✓	
NovaBACKUP® Business Essentials - 10 User Licences	✓	✓
Operating System Support	Windows Server 2003/2008, Windows® 7(64/32bit), Windows® Vista™, Windows® XP, Windows® 2000 (32bit), Windows XP Media Center Edition 2004/2005	
Warranty Support	Desktop	Rackmount
Product Code	TS-IX4.0TL/R5-EU	TS-RIX4.0TL/R5-EU TS-RIX8.0TL/R5-EU

Why Network Attached Storage in the Home?

BUFFALO™

■ When you have the need to **share data files across multiple PC's** – a NAS device is the perfect solution.

■ NAS gives you the ability to **expand your shared storage space.** Simply add an external storage device, via the USB port, to the NAS device.

■ Peace of Mind – NAS devices often contain more than one hard disk drive, often arranged into logical, redandant storage containers or RAID arrays for added redundancy/security – **thus protecting data in the case of disk failure** and subsequent data loss.

■ Cost benefits – NAS devices offer an **affordable solution for homes and small businesses** that require more storage space.

■ Convenience – NAS offers a **simple** solution for **sharing photos, data files, music or videos** stored in one central location, accessible to anyone on the secure network, via PC/laptop.

■ Access your data anywhere – With the **WebAccess feature** you have the freedom **to access your data from anywhere via an Internet portal.** Download and view movies whilst on the move. You no longer need to carry your digital world with you.

■ Secure Data – Schedule regular back-ups to ensure you **never lose your data** with the Memeo® backup software, included with all Buffalo™ Network Attached Storage products.

Home/Small Business Network

Android Phone
Windows Phone
iPhone
iPad

Web Access

TV

Internet

Notebook 1 – Mum

Network Media Player

Wireless Router

Notebook 2 – Child

USB Network Printer

Wireless PC – Dad

Optional USB Camera

NAS Multimedia Storage Server

Direct Attached Storage (External storage device)

Link Station

FUNCTION

BUFFALO

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Network Attached Storage for the Home

The LinkStation™ Multimedia shared network products are for the home that requires a central location to share data files, photos, video and music. In addition to the storage capabilities, they can stream multimedia to a PC, a Mac, a Buffalo™ LinkTheater™ and other DLNA CERTIFIED™ media players. The LinkStation™ family seamlessly integrates with iTunes® 7 and allows access to music files from your iTunes® software. Available with single, dual and quad drives and capacities that range from 500GB to 8TB, save and share your digital life from one place, with the Buffalo™ LinkStation™ range. Network Attached Storage for the Professional Multimedia Home User

	LinkStation™ Pro	LinkStation™ Duo	LinkStation™ Pro Duo	LinkStation™ Pro Quad
Number of Drives	1	2	2	4
Data Transfer Speeds	76 MB/s	40 MB/s	76 MB/s	72 MB/s
Capacities	1TB, 2TB and 3TB	2TB, 4TB and 6TB	2TB, 4TB and 6TB	4TB, 8TB and 12TB
USB Ports	1	1	1	2
LAN Ports	1	1	1	1
Supported RAID Levels	x	0, 1 and JBOD	0, 1 and JBOD	0, 1, 5, 10 and JBOD
Active Directory	✔	✔	✔	x
Drive Interface	SATA	SATA	SATA	SATA
Logitech Squeezebox Support	With firmware update v1.40 or later	With firmware update v1.40 or later	With firmware update v1.40 or later	out of the box
WebAccess	✔	✔	✔	✔
DLNA™ Media Server	✔	✔	✔	✔
NovaBACKUP® Professional – 5 User Licenses	✔	✔	✔	✔
Buffalo Tools Suite Includes TurboPC, TurboCopy, RAMDISK Utility & Backup Utility	✔	x	✔	✔
BitTorrent™	✔	✔	✔	✔
Apple Time Machine®	✔	✔	✔	✔
Apple Bonjour®	✔	x	✔	✔
iTunes® Integration	✔	✔	✔	✔
Power Management System	✔	✔	✔	✔
Operating System Support	Windows® 7 (32 & 64bits), Windows® Vista™ (32 & 64bits), Windows® XP, Windows® 2000, Windows XP Media Center Edition 2004/2005, Windows Server 2003/2008 (32 & 64bits), Mac OS X 10.3.9 or later	Windows® 7.0, 2000/XP/Vista™, Windows® Server 2008/03 & Mac OS X 10.3.9 or higher	Windows® 7 (32 & 64bits), Windows® Vista™ (32 & 64bits), Windows® XP, Windows® 2000, Windows XP Media Center Edition 2004/2005, Windows Server 2003/2008 (32 & 64Bits), Mac OS X 10.3.9 or later	
Warranty Support		2 Years		
Chassis Colour	Black	Black	Black	Black
Product Code	LS-V1.0TL-EU LS-V2.0TL-EU LS-V3.0TL-EU	LS-WX2.0TL/R1-EU LS-WX4.0TL/R1-EU LS-WX6.0TL/R1-EU	LS-WV2.0TL/R1-EU LS-WV4.0TL/R1-EU LS-WV6.0TL/R1-EU	LS-QV4.0TL/R5-EU LS-QV8.0TL/R5-EU LS-QV12TL/R5-EU

	LinkStation™ Live	LinkStation™ Mini
Number of Drives	1	2
Capacities	1TB, 2TB and 3TB	1TB and 2TB
USB Ports	1	1
LAN Ports	1	1
Supported RAID Levels	x	0, 1 and JBOD
Active Directory	x	✔
Drive Interface	SATA	SATA
Logitech Squeezebox Support		With firmware update v1.40 or later
WebAccess	x	✔
DLNA™ Media Server	✔	✔
NovaBACKUP® Professional – 5 User Licenses	✔	✔
BitTorrent™	✔	✔
Apple Time Machine®	✔	✔
Apple Bonjour®	✔	✔
iTunes® Integration	✔	✔
Power Management System	✔	
Operating System Support	Windows® 2000/XP/Vista, Windows® Server 2003/2008, Mac OS 10.3.9 or higher	
Warranty Support	2 Years	
Chassis Colour	Black	Black and White
Product Code	LS-X1.0TL-EU LS-X2.0TL-EU LS-X3.0TL-EU	LS-WSX1.0TL/R1EU LS-WSX1.0TL/R1WHE LS-WSX2.0TL/R1EU LS-WSX2.0TL/R1WHE

Cloud Storage

BUFFALO™

CloudStation™ goes beyond simple home storage. As a personal storage solution designed with you in mind, it is your portal to freely access and share your data, photos, videos, music and much more with anyone, anywhere over the Internet. And because none of your data resides in the cloud, CloudStation™ is your secure solution to easily store and share digital assets with no service or capacity fees. With apps for mobile devices, you'll always be seconds away from your content. Whether you're at home, the office or on the road, your user experience remains the same. It looks and operates just like a hard drive on your PC or Mac. CloudStation™ can even integrate with Facebook and Twitter for easy sharing to popular online services. CloudStation™ is that easy. Just plug it in, turn it on and create your free account at **cloudstation.pogoplug.com**

	CloudStation™	CloudStation™ Duo	CloudStation™ Pro Duo
CPU	x	x	Marvel 6282 1,6 GHz
RAM	x	x	256 MB DDR3
Drive Interface	SATA II	SATA II	SATA II
Number of Drives	2	2	2
Capacities	1 TB and 2 TB	2 TB and 4 TB	2 TB and 4 TB
Supported RAID Levels	x	1, JBOD	1, JBOD
Standard Compliance	Standards: IEEE802.3ab / IEEE802.3, IEEE802.3u	Standards: IEEE802.3ab / IEEE802.3, IEEE802.3u	Standards: IEEE802.3ab / IEEE802.3, IEEE802.3u
Data Transfer Rates	1000/100/10 Mbit/s	1000/100/10 Mbit/s	1000/100/10 Mbit/s
Number of Ports	1	1	1
Networking	TCP/IP	TCP/IP	TCP/IP
File Sharing	SMB/CIFS, AFP, HTTP/HTTPS	SMB/CIFS, AFP, HTTP/HTTPS	SMB/CIFS, AFP, HTTP/HTTPS
Management	HTTP	HTTP	HTTP
Time Synchronization	NTP	NTP	NTP
Operating System Support	Windows® 2000/XP/Vista, Windows® Server 2003/2008, Mac OS 10.3.9 oder höher		
Warranty Support	2 Years		
Product Code	CS-X1.0-EU CS-X2.0-EU	CS-WX2.0/R1-EU CS-WX4.0/R1-EU	CS-WV2.0/R1-EU CS-WV4.0/R1-EU

pogoplug

Internet

Mobile Device

Mobile Device

Home Computer

PC or Mac®

cloudstation™
POWERED BY pogoplug

External Storage Solutions

BUFFALO™

DriveStation™ is a family of desktop external hard drives that offers high performance, easy-to-use storage. The DriveStation™ is available in single drive and multiple drive configurations with industry standard USB 2.0 and technology leading USB 3.0.

	DriveStation™ External USB 3.0 Hard Drive	DriveStation™ Velocity USB 3.0	DriveStation™ Combo4
Product Range Code	HD-LBU3	HD-LXU3	HD-HSQ
Interface(s)	USB 3.0	USB 3.0	1 x USB 2.0, 1 x FireWire400, 2 x FireWire800, 1 x eSATA
Hardware Encryption	✓	x	✓
Capacities	1 TB and 2 TB	1 TB and 2 TB	1 TB and 2 TB
Eco Manager	✓	✓	✓
Secure Lock Manager Easy	✓	✓	✓
Secure Lock Mobile	x	x	x
Buffalo Tools	✓	✓	✓
Operating System Support	Windows®7 (32bit, 64bit), Windows® Vista™(32bit, 64bit), Windows® XP, Mac OS 10.4 or higher		
Warranty Support	2 Years		
Product Code	HD-LB1.0TU3-EU HD-LB2.0TU3-EU HD-LB3.0TU3-EU	HD-LX1.0TU3-EU HD-LX2.0TU3-EU HD-LX3.0TU3-EU	HD-HS1.0TQ HD-HS2.0TQ

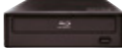# SuperSpeed USB 3.0 Solutions

The Buffalo USB 3.0 range is the next generation of high speed external desktop and portable hard disk drives that offer SuperSpeed transfer speeds of up to 130MB/s, 3 times faster than USB 2.0.

	DriveStation™ Quad	DriveStation™ Duo USB 3.0	DriveStation™ Quad USB 3.0
Product Range Code	HD-HXU3	HD-LBU2	HD-HSQ
Interface(s)	USB 3.0	USB 2.0	1 x USB 2.0, 1 x FireWire400, 2 x FireWire800, 1 x eSATA
Number of Drives	4	2	4
Capacities	4TB and 8TB	2TB, 4TB and 6TB	4TB, 8TB and 12TB
Hardware RAID	✓	✓	✓
RAID-Modi	0, 1, 5, 10, JBOD	0, 1, JBOD	0, 1, 5, 10, JBOD
Eco Manager	✓	✓	✓
Secure Lock Mobile	✓	✓	✓
Buffalo Tools	✓	✓	✓
Operating System Support			
Warranty Support		2 Years	
Product Code	HD-QL4TSU2R5-EU HD-QL8TSU2R5-EU	HD-WL2TU3R1-EU HD-WL4TU3R1-EU HD-WL6TU3R1-EU	HD-QL4TU3R5-EU HD-QL8TU3R5-EU HD-QL12TU3R5-EU

Optical Storage

Optical Storage is a form of storage that reads data from a disk using a laser. Most optical disk drives can read or write data in one or more of the following formats: CD Audio, CD-ROM, CD-R, CD-RW, DVD, DVD-R, DVD-RW, Blu-ray™. Blu-ray™ is the ideal solution for users storing, editing or watching High Definition content or writing large or small amounts of data to an optical drive.

	USB 3.0 12x Blu-ray™ Writer	External 8x Blu-ray™ Drive	Portable 6x Blu-ray™ Drive	Mobiles 8x DVD-MultiDrive
Product Range Code	BR3D-12U3-EU	BR-X816U2-EU	BR-PX68U2/BK-EU	DVSM-PC58U2VB-EU
Interface(s)	USB 3.0	USB 2.0	USB 2.0	USB 2.0
Media	BR/DVD/CD	BR/DVD/CD	BR/DVD/CD	DVD/CD
Read/Write Speeds	■ BD-R Single Layer (8x/12x) ■ BD-R Double Layer (8x/12x) ■ BD-RE Single Layer (8x/2x) ■ BD-RE Double Layer (6x/2x) ■ DVD-R Single Layer (16x/16x) ■ DVD-R Double Layer (12x/8x) ■ DVD-RW (12x/6x) ■ DVD+R Single Layer (16x/16x) ■ DVD+R Double Layer (12x/8x) ■ DVD+RW (12x/8x) ■ DVD-RAM (5x/5x) ■ CD-R (40x/40x) ■ CD-RW (24x/24x)	■ BD-R Single Layer (7,2x/8x) ■ BD-R Double Layer (6x/8x) with Turbo USB active ■ BD-RE Single Layer (4,8x/2x) ■ BD-RE Double Layer (4,8x/2x) ■ DVD-R Single Layer (16x/16x) ■ DVD-R Double Layer (8x/4x) ■ DVD-RW (10x/6x) ■ DVD+R Single Layer (16x/16x) ■ DVD+R Double Layer (8x/4x) ■ DVD+RW (10x/8x) ■ DVD-RAM (5x/5x) ■ CD-R (32x/32x) ■ CD-RW (24x/24x)	■ BD-R Single Layer (6x/6x) ■ BD-R Double Layer (4x/4x) ■ BD-RE Single Layer (4x/2x) ■ BD-RE Double Layer (4x/2x) ■ DVD-R Single Layer (8x/8x) ■ DVD-R Double Layer (6x/4x) ■ DVD-RW (6x/6x) ■ DVD+R Single Layer (8x/8x) ■ DVD+R Double Layer (6x/4x) ■ DVD+RW (6x/8x) ■ DVD-RAM (5x/5x) *Only removable cartridge ■ CD-R (24x/24x) ■ CD-RW (24x/10x)	■ DVD-R Single Layer (8x/8x) ■ DVD-R Double Layer (6x/6x) ■ DVD-RW (8x/6x) ■ DVD+R Single Layer (8x/8x) ■ DVD+R Double Layer (6x/6x) ■ DVD+RW (8x/8x) ■ DVD-RAM (5x/5x) ■ CD-R (24x/24x) ■ CD-RW (24x/24x)
Hardware RAID	Cyberlink 3D	Cyberlink Power Suite	Cyberlink Power Suite	Cyberlink Power Suite
Warranty Support		2 Years		

Accessories

There are still PCs and notebooks around which have no high speed USB 3.0 connection. External hard drives with USB 3.0 interfaces are widely available, and they are on average three times faster than USB 2.0 drives. Still, even if external USB 3.0 hard drives are compatible and can be run with USB 2.0 host controllers, they always stay well below their full potential in terms of transfer speed. Buffalo offers solutions for PCs and notebooks that unlock this potential.

■ The solution for PCs is the Buffalo USB 3.0 PCI Express interface card, which can be inserted into a PCIe socket with one lane and also into longer PCIe sockets.

■ Almost all notebooks have an interface for a PC Express card slot in which they can run the Buffalo USB 3.0 Express interface card with two ports.

■ With the three upgrade options from Buffalo, you can use faster USB 3.0 drives with notebooks and PCs that do not have an integrated USB 3.0 host controller.
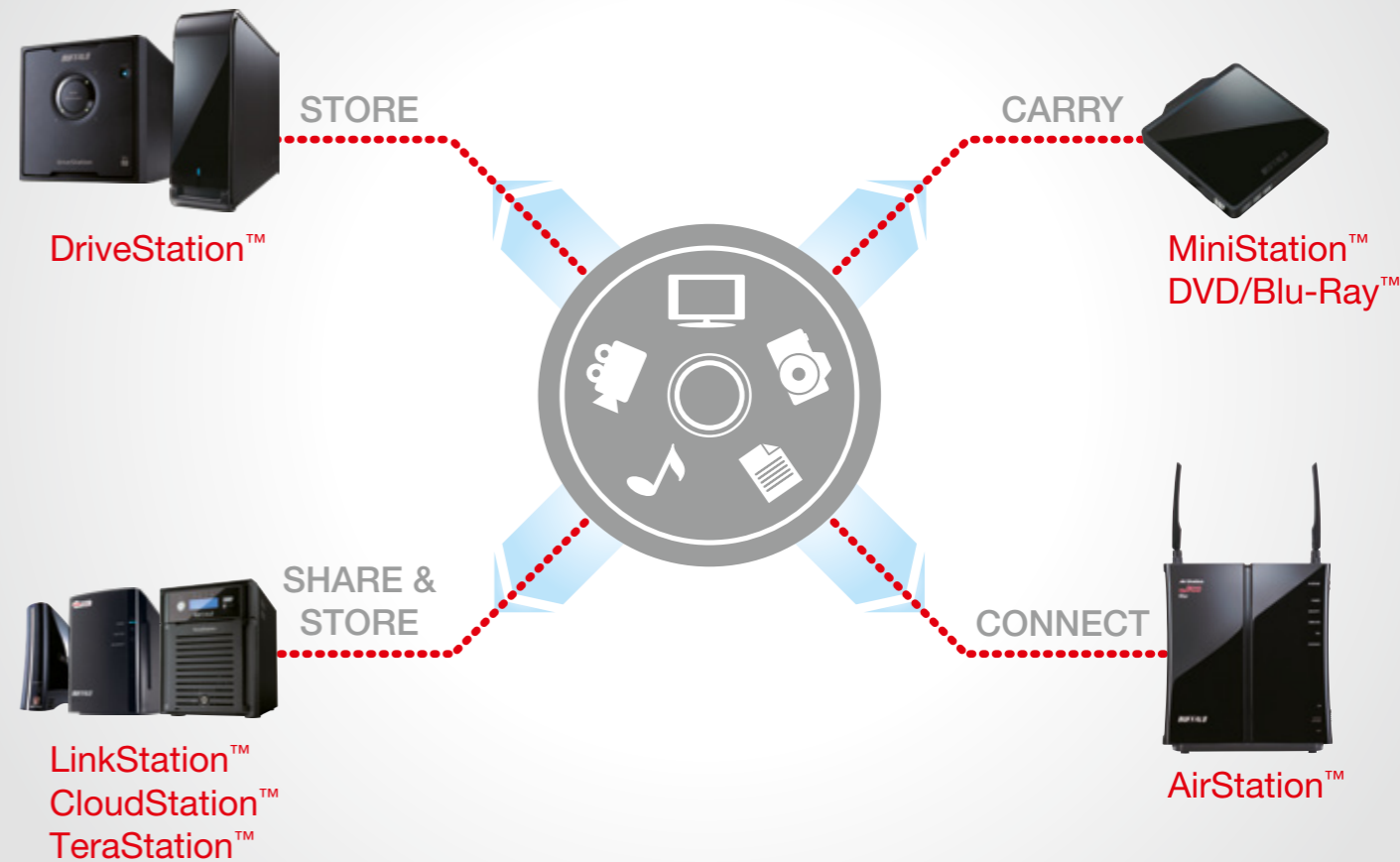
	4 Port USB 3.0 PCI Express Interface Card	2 Port USB 3.0 PCI Express Interface Card	Express Card Adapter
Produktcode	IFC-PCIE4U3S	IFC-PCIE2U3S2	IFC-EC2U3/UC2
Interface Type	PCI Express	PCI Express 2.0	Express Card 2.0
Standard Compliance	USB 3.0 / USB 2.0	USB 3.0 / USB 2.0	USB 3.0 / USB 2.0
Connector Type	SB 3.0 Type A	USB 3.0 Type A	USB 3.0 Type A
Number of Ports	4	2	2
Data Transfer Rate	Max. 5 Gbps (USB 3.0 mode) Max. 480 Mbps (USB 2.0 mode)	Max. 5 Gbps (USB 3.0 mode) Max. 480 Mbps (USB 2.0 mode)	Max. 5 Gbps (USB 3.0 mode) Max. 480 Mbps (USB 2.0 mode)
Setup Utility OS Support	Windows® 7 (32, 64-bit), Windows® Vista™ (32, 64-bit), Windows® XP	Windows® 7 (32, 64-bit), Windows® Vista™(32, 64-bit), Windows® XP, Server 2008 R2** / 2008** (32-bit/ 64-bit***)	Windows® 7 (32, 64-bit), Windows® Vista™ (32, 64-bit), Windows® XP
Dimensions (W x H x D)	100.5 x 80.2 mm	59 x 65 mm	41 x 15 x 116 mm
Weight	57 g	39.4 g	30,1 g
Operating Environment	5-350 °C, 20-80 % (non-condensing)	5-350C, 20-80 % (non-condensing)	5-350 °C, 20-80 % (non-condensing)
Power Consumption	0.6 W (average for using 4 non bus powered external drives)	1.0 W	0,91 W
Power Supply	PCIe Bus Powered/12V-DC optional	PCIe Bus Powered optional DC port	ExpressCard Bus Powered (USB-DC cable supported)
Warranty	2 Jahre		

* 5 Gbps is the maximum interface rate derived from the specifications of the UniversalSerial Bus 3.0 and the ExpressCard. Actual transfer rate will vary depending upon environmental factors. Data rate, features and performance may vary based on the configuration of your system and other factors.

** 1 Not all peripheral devices support Windows Server operating systems. Buffalo supports use in Server environments when using supported Buffalo products. If 4 GB of memory or more are installed on 32-bit versions of Windows Server operating systems, the card may not function properly.

*** 2 Windows Server 2008 R2 only supports 64bit.

DriveStation™

STORE

CARRY

MiniStation™ DVD/Blu-Ray™

SHARE & STORE

CONNECT

LinkStation™ CloudStation™ TeraStation™

AirStation™

Portable Storage

BUFFALO™

The Buffalo™ MiniStation™ is a compact USB 3.0 hard drive family designed to be reliable and give a high performance. The ideal product for people who need a portable, stylish storage and back-up solution. Buffalo Portable Solid State Disk (SSD) offers a mini portable storage solution with the latest technology. Fits neatly in your hand and capable of storing up to 64GB of data technology, with no moving parts, and silent operation, the SSD allows for lower power consumption which helps prolongs the life of your laptop battery, the perfect solution for when on the move.

	MiniStation™ Plus	MiniStation™ USB 3.0	MiniStation™ Extreme	MiniStation™ with Hardware Encryption
Product Range Code	HD-PNTU3	HD-PCTU3	HD-PZB-EU	HD-PXTU2
Capacity	500 GB and 1 TB	500 GB and 1 TB	500 GB and 1 TB	500 GB and 1 TB
Interface(s)	USB 3.0	USB 3.0	USB 3.0	USB 2.0
Hardware Encryption	✓	✗	✓	✓
Eco Manager	✓	✓	✓	✓
Secure Lock Manager Easy	✓	✗	✓	✓
Secure Lock Mobile	✗	✓	✗	✗
Buffalo Tools	✓	✓	✓	✓
Operating System Support	Windows®7 (32bit, 64bit), Windows® Vista™ (32bit, 64bit), Windows® XP, Mac OS 10.4 or higher			
Warranty Support	2 Years			
Product Code	HD-PNT500U3B-EU, HD-PNT500U3R-EU, HD-PNT500U3L-EU, HD-PNT500U3S-EU, HD-PNT500U3B-RU, HD-PNT500U3R-RU, HD-PNT1.0U3BB-EU, HD-PNT1.0U3BR-EU HD-PNT1.0U3BS-EU, HD-PNT1.0U3B-EU HD-PNT1.0U3R-EU, HD-PNT1.0U3L-EU HD-PNT1.0U3S-EU, HD-PNT1.0U3B-RU HD-PNT1.0U3R-RU	HD-PCT500U3/B-EU, HD-PCT500U3/W-EU HD-PCT500U3B-RU, HD-PCT1TU3/BB-EU HD-PCT1TU3/BW-EU, HD-PCT1.0U3B-RU HD-PCT1.0U3W-RU, HD-PCT1.5U3GB-EU HD-PCT1.5U3GW-EU, HD-PCT1.5U3GB-RU HD-PCT1.5U3GW-RU	HD-PZ500U3B-EU HD-PZ500U3B-RU HD-PZ1.0U3B-EU HD-PZ1.0U3B-RU	HD-PXT500U2/B-EU HD-PXT1TU2/B-EU HD-PXT500U2/R-EU HD-PXT500U2/W-EU

What is Wireless?

Wireless Local Area Network (WLAN) is a Wireless alternative to a computer Local Area Network (LAN) that uses radio instead of wires to transmit data back and forth between computers in a small area such as a home or office. WLAN's are governed by a set of communication standards, implemented by the IEEE Standards Committee. 802.11 was the first WLAN standard and supported bandwidth of 2Mbps, too slow for today's applications. Three standards exist today, 802.11n, 802.11g and 802.11a.

■ Wireless-n – The newest standard for WLAN products. Backward compatible with Wireless-g products, Wireless-n offers a better range and supports data rates of over 100Mbps.
■ Wireless-g or 802.11g supports a bandwidth of up to 54Mbps and uses the 2.4GHz frequency for a greater Wireless range.
■ Wireless-a or 802.11a supports a bandwidth of up to 54Mbps and transmits radio signals in the frequency range above 5GHz

All Buffalo™ wireless routers use the Wireless-N standard (802.11n) and offer users optimal performance:

■ Nfiniti Dual Band - 802.11n with 5 GHz and 2.4 GHz dual band
■ Nfiniti - 802.11n 2.4 GHz single band
■ N-Technology - 802.11n with 1x1 antenna: not compliant with the IEEE standard, because a single antenna does not permit MIMO (Multiple Input / Multiple Output) as required by the standard. At 150Mbit/s, the technology is still far faster than the predecessor, Wireless-G, and is enough for the demands of "normal" users, especially in combination with the High Power technology.
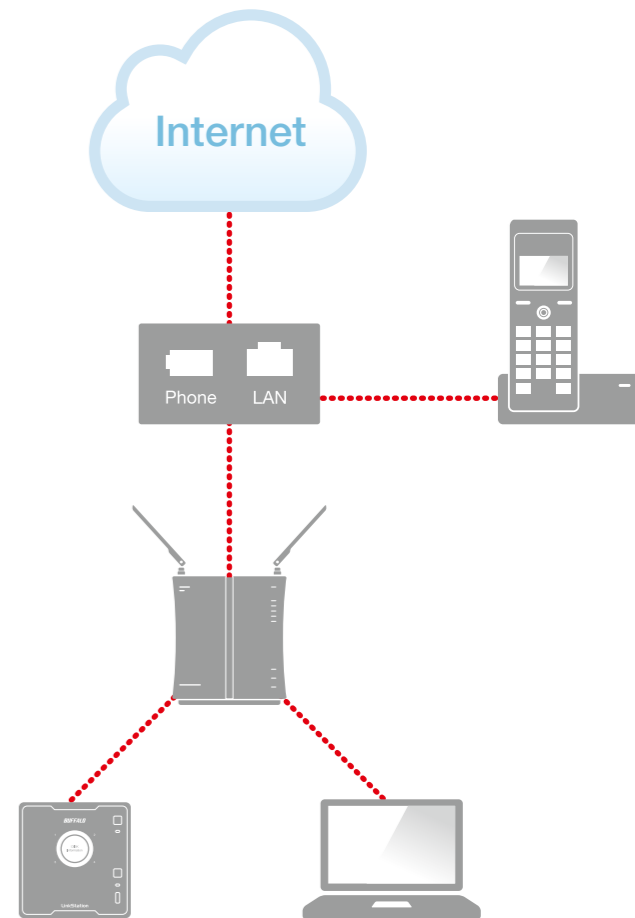
Wireless-N offers great performance and range at an affordable price. Based on the IEEE802.11n specification, they use the latest Wireless technology and are recommended for transferring large files, playing games, or streaming multimedia files.

	AirStation™					
	150 Mbps Router Access Point & Bridge	150 Mbps Cable Router	Wireless-N Router & Access Point	300 Mbps HighPower Router & Access Point	Wireless-N HighPower Gigabit Router & Access Point	HighPower Giga Wireless-N Router & Access Point	Wireless-N Dual Band HighPower Gigabit Router
Product Code	WCR-GN-EU	WHR-HP-GN-RU	WHR-G300NV2-EU WHR-G300NV2/U-EU	WHR-HP-G300N	WZR-HP-G300NH2EU	WZR-HP-G450H-EU	WZR-HP-AG300H-EU
Max Speed	150 Mbit/s	150 Mbit/s	300 Mbit/s	300 Mbit/s	300 Mbit/s	450 Mbit/s	2x300 Mbit/s
Dual Band	x	x	x	x	x	x	✓
HighPower	x	✓	x	✓	✓	✓	✓
WDS	✓ (Nur Client-AP)	✓	✓	✓	✓	✓	✓
ECO	x	x	✓	x	✓	✓	✓
PPTP	x	✓	✓	✓	✓	✓	✓
USB	x	x	x	x	✓	✓	✓
USB over IP	x	x	x	x	x	✓	x
DD-WRT	x	✓	x	✓	✓	✓	✓
Gigabit LAN	x	x	x	x	✓	✓	✓
Antennas TXxRX	1x1	1x1, removable	2x2, intern	2x2, removable	2x2	3x3, removable	2x2
Warranty Support	3 Years						

	AirStation™	
	HighPower ADSL2+ Modem Router	HighPower Gigabit Broadband ADSL2+ Modem Router
Product Code	WBMR-HP-GNV2-EU WBMR-HP-GNV2-RU	WBMR-HP-G300H-EU WBMR-HP-G300H-RU WBMR-HP-G300H-DE
Max Speed	300Mbit/s	300Mbit/s
Modem-Standard	Annex A	Annex A/Annex B
HighPower	✓	✓
WDS	x	✓
ECO	✓	✓
PPTP	x	✓
USB	x	✓
USB over IP with PC- and Mac-Client-Application	x	✓
DD-WRT	x	x
Gigabit LAN	x	✓
Antennas TXxRX	1x1, removable	2x2
Warranty Support	3 Years	

Internet

Phone   LAN

Ethernet Converter

Wireless Accessories
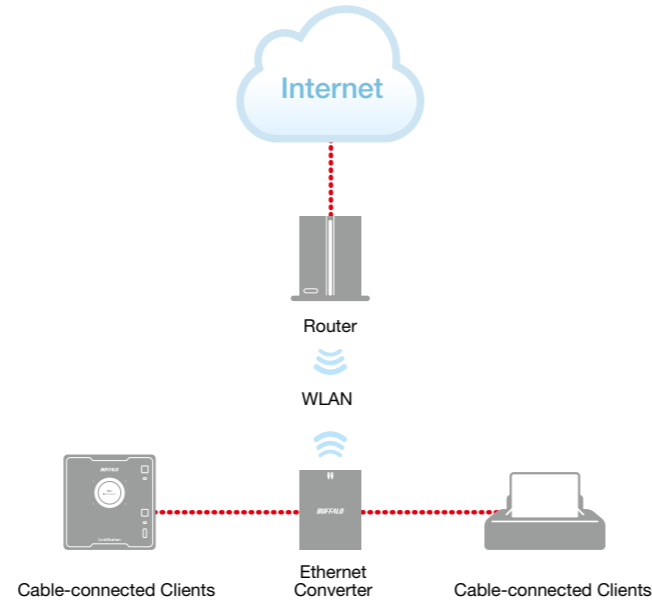
Wireless-N Dual Band Ethernet Converter
The extremely versatile Buffalo™ Wireless Ethernet Converter offers a Wireless solution for all wired network home entertainment devices in your home. Up to four wired devices can be converted to Wireless devices, enabling you to access them anywhere in the home.

AirStation™ Nfiniti™ Dual-Band Wireless-N Ethernet Converter Access Point and Bridge
A versatile Wireless device that extends the capabilities of Wireless networks by offering three operating modes for limitless fl exibility. The converter can connect any two wired devices, such as printers, gaming consoles or DVRs, to an existing Wireless network. It can turn any wired network into a high speed 11n network, or two or more can used to wirelessly connect and extend the range of the Wireless network.

Buffalo™ Wireless accessory devices and add-ons help to improve your Wireless experience. Includes complimentary Wireless products such as antennas, cables, wall mount kits and Power Over Ethernet solutions.

	AirStation™	
	Wireless-N Ethernet Converter	Wireless-N Ethernet Converter Access Point & Bridge
Product Code	WLI-TX4-AG300N	WLAE-AG300N-EU
Dual Band	✓	✓
HighPower	x	x
WDS	x	✓
ECO	x	✓
PPTP	x	x
USB	x	x
USB over IP	x	x
Antennas TXxRX	2x2, intern	2x2, intern
Warranty Support	3 Years	

Internet

Router

WLAN

Cable-connected Clients

Ethernet Converter

Cable-connected Clients

	N-Technology		Nfiniti™		Nfiniti™ Dual Band	
	USB 2.0-Client with 150Mbit/s	High Power USB 2.0 Adapter	Wireless-N Compact USB 2.0 Adapter	Wireless-N High Power USB 2.0 Adapter	USB 2.0 Keychain Adapter	AirStation N450 Wireless-N Adapter
Product Code	WLI-UC-GNM-EU	WLI-UC-GNHP-EU WLI-UC-GNHP-RU	WLI-UC-G300N	WLI-UC-G300HP WLI-UC-G300HP-RU	WLI-UC-AG300N	WLI-UC-G450-EU
Max Speed	150 Mbit/s	150 Mbit/s	300 Mbit/s	300 Mbit/s	300 Mbit/s	450 Mbits/s
HighPower	x	✓	x	✓	x	x
Interface	USB 2.0	USB 2.0	USB 2.0	USB 2.0	USB 2.0	USB 2.0
Dual-Band	x	x	x	x	x	x
Antennas TXxRX	1x1	1x1	2x2	2x2	2x2	3x3
Warranty Support	3 Years					

Environmental Position

BUFFALO™

Buffalo™ Technology recognises that maintaining a healthy environment is vital for a healthy life and sustainable growth for future generations. Buffalo™ Technology is committed to complying with environmental standards and is proactive in dealing with concerns for the environment. These goals are being achieved by combining technological innovation with sound environmental business decisions at every step of a product's life cycle. Efforts will focus on reducing environmental damage by complying with all applicable regulations.

Buffalo™ Technology is compliant with the following EU directives:

RoHS Directive (2002/95/EC)
The RoHS Directive refers to the restriction of the use of certain hazardous substances in electrical and electronic equipment. This Directive bans the placing on the EU market of new electrical and electronic equipment containing these materials. All products shipped from Buffalo™ European distribution centres are compliant with the European RoHS Directive as of July 1, 2006.

WEEE Directive (2002/96/EC)
The Waste Electrical and Electronic Equipment Directive (WEEE) applies to companies that manufacture, sell, distribute, recycle or treat electrical or electronic equipment (EEE), and to consumers within the European Union. The objective of the directive is to prevent waste of electrical and electronic equipment (WEEE) and to promote the reuse, recycling and recovery of such wastes. Buffalo™ Technology is committed to working with suppliers, distributors, partners and customers to ensure compliance with the WEEE Directive.

REACH Directive (EC 1907/2006)
REACH is a European Union regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals. REACH addresses the production and use of chemical substances, and their potential impacts on both human health and the environment. REACH places greater responsibility on industry to manage these risks. A full list of REACH compliant products is available on our website.

Packaging and Packaging Waste Directive (94/62/EC)
The Packaging and Packaging Waste Directive aims to harmonise national measures in order to prevent or reduce the impact of packaging and packaging waste on the environment. It contains provisions on the prevention of packaging waste, on the re-use of packaging and on the recovery and recycling of packaging waste. Buffalo™ Technology has joined the Green Dot program, which was established to organise the collection, sorting, and recycling of used sales packaging. Green Dot is currently the standard takeback program in 21 European countries.

For more information on our environmental position, please visit:
www.buffalo-technology.com/support/environmental-position/

Technical Support

Buffalo™ EMEA Offices

BUFFALO™

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Ireland	+353 (0)1890 719901
Italy	+39 (0)848 782113
Netherlands	+31 (0)900 0401256
Norway	+47 (0)810 00050
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