

Ways to Live Smart

We share the moment in our lives together  
Laugh together and share together.  
Beyond time and beyond space.  
It connects us and the world.

optical  
**SMART HUB**  
SE-208BW

SAMSUNG

# Optical Smart Hub Sales Kit (for SE-208BW)

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Product Planning Group  
Sales & Marketing Team

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# PRODUCT OVERVIEW



## SAMSUNG SE-208BW Overview

### The Wide Possibility With Wireless Connection



Use as DVD player & writer,  
and network USB drive  
for your tablet & smartphone



- Video/music files stored in USB
- Data files to browse in file manager app



Works as wireless AP



- DVD Title
- Audio CD
- Video/music files stored in ODD
- Data files to browse in file manager app



Use as wireless DVD-ROM in PC



Plays video/music files thru Smart TV

# MAIN FUNCTIONS



## SE-208BW Function Details

### Main Functions

DVD Title & CD Audio Streaming thru Wi-Fi



Simultaneous connection:  
up to 2 users

Media File Streaming  
Wirelessly thru [DLNA](#)



Simultaneous connection:  
up to 4 users



Sales points

World's first wireless  
DVD streamer w/o PC

World's unique ODD  
works with tablets and  
smartphones

Apps are available both  
for iOS (Apple) and  
Android

Wirelessly streams  
various type of media  
files to mobile devices

Supports Smart TV  
thru Allshare™

Subtitle files in various  
languages are supported



# SUB FUNCTIONS



## SE-208BW Function Details

### Sub Functions



### Sales points

#### Backup to ODD/USB



Easily back-up  
smartphone data  
without using PC

Copying from ODD/USB  
to smartphone is also  
available.



#### Wireless AP



Can be used as an  
entry-level wireless AP  
when connected to  
internet

# OTHER FUNCTIONS



## SE-208BW Function Details

### Other Functions

[NAS](#) (FTP Server)



Wi-Fi DVD-ROM for PC  
([iSCSI](#))



Sales points

Can remotely access files when subscribed to [DDNS](#) service

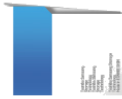
Can access files thru [FTP](#) clients installed in PC as well as in mobile devices

Can be used as an wireless DVD-ROM thru iSCSI





## "Mobile Smart Hub" Main Menu



### **File Manager**

File Manager includes file browsing and general file processing services such as running, copying, deleting and renaming files.



### **Smart Backup**

Smart Backup lets you backup from a mobile device to a USB/ODD, and vice versa (requires a USB drive connected).



### **Photo Backup**

Similar to smart backup. Able to backup photos from mobile devices to ODD (supports Android only).



### **Video Player**

Plays various video formats (MP4, AVI, WMV, RMVB...) in mobile devices, and streams files in USB/ODD of Optical Smart Hub.



### **Music Player**

Plays various audio formats (MP3, OGG, WMA...) in mobile devices, and streams files in USB/ODD of Optical Smart Hub.



### **DVD Player**

Streams DVD titles mounted in Optical Smart Hub, or VOB files.



### **Audio CD Player**

Streams CD audio mounted in Optical Smart Hub.

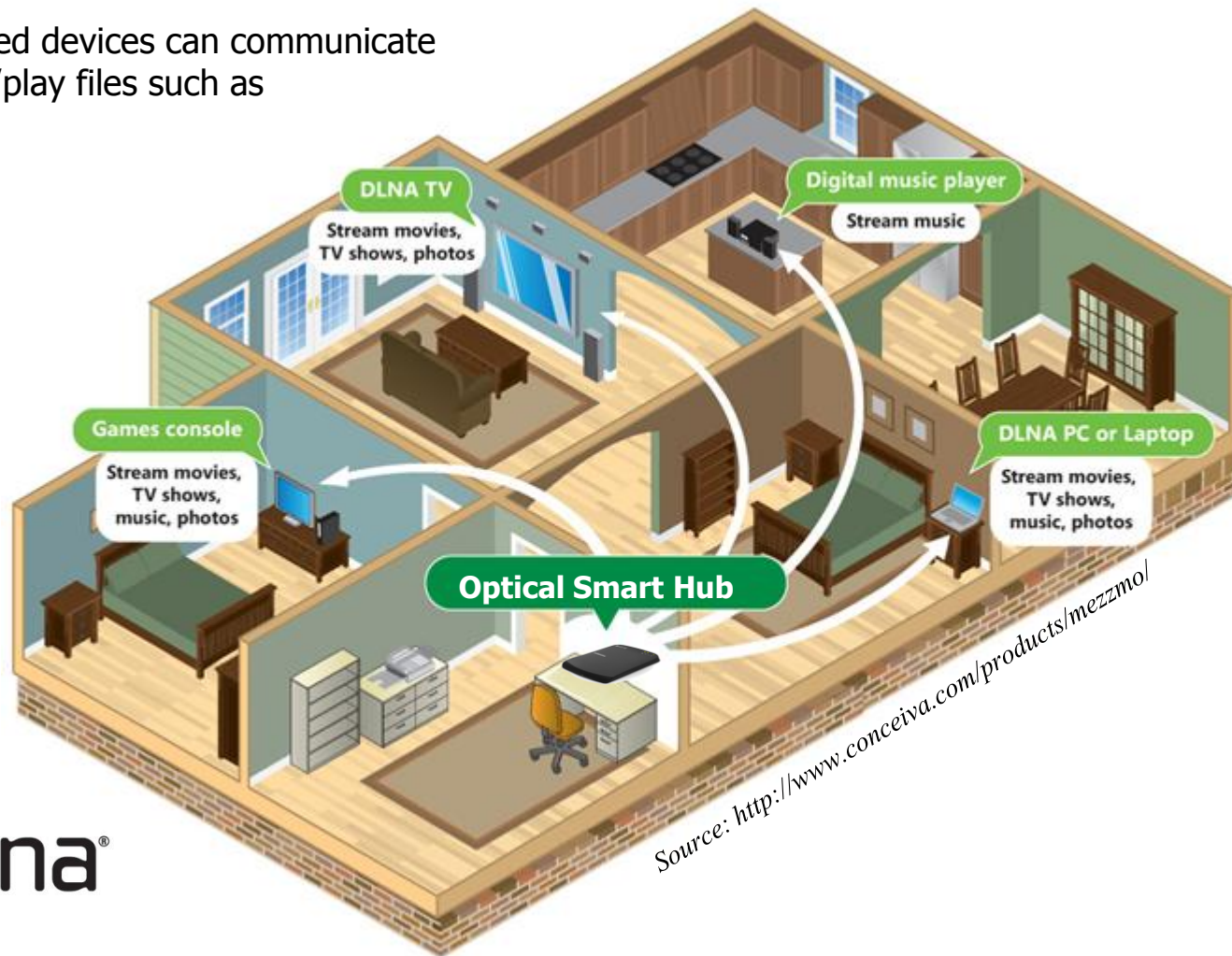


## DLNA (Digital Living Network Alliance)



DLNA stands for Digital Living Network Alliance.

Once connected, DLNA certified devices can communicate with each other to find/share/play files such as movies, photos, and music.



Source: <http://www.conceiva.com/products/mezzmo/>





## NAS (Network Attached Storage) Related Glossaries

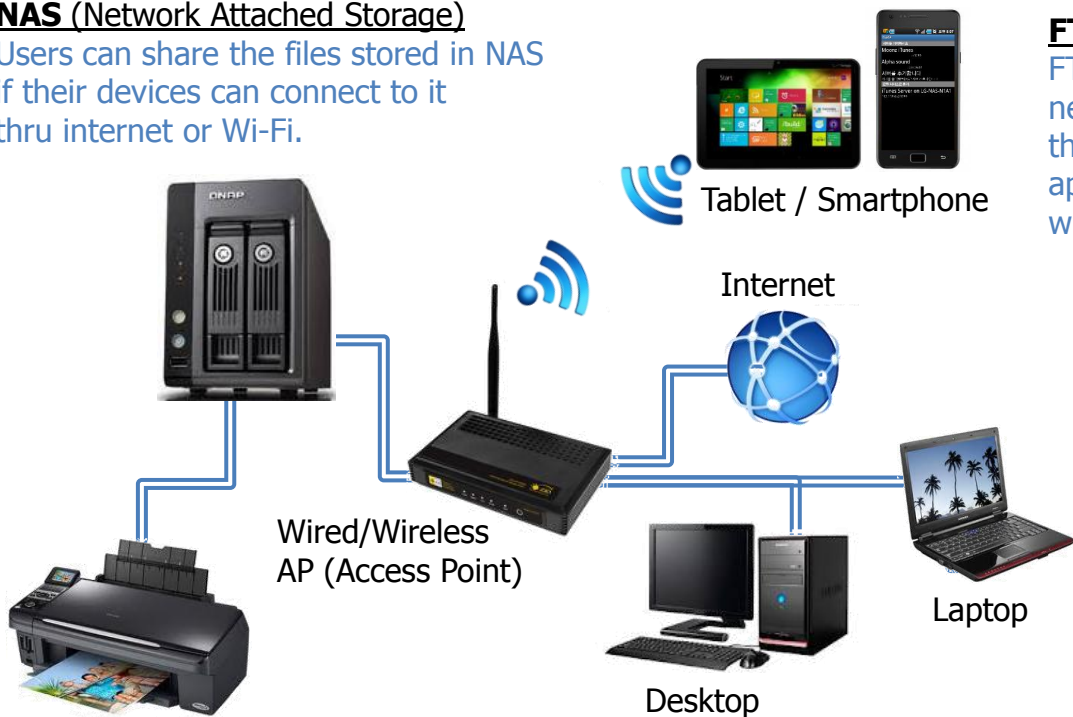


### **DDNS** (Dynamic Domain Name System)

DDNS can be a recognizable address of their NAS' IP address, even the IP is constantly changing (e.g. if DDNS address is "yourname.yourdns.com", and IP is 203.210.172.94, users can input the address "yourname.yourdns.com" to connect to their NAS whose IP is 203.210.172.94, wherever they can access the internet).

### **NAS** (Network Attached Storage)

Users can share the files stored in NAS if their devices can connect to it thru internet or Wi-Fi.



### **Network Printer**

Users can share the printer if their devices are in the same network.

### **FTP** (File Transfer Protocol)

FTP is a method for receiving or sending files through network. In this case, "FTP server" is the device where the files are located. "FTP client" is the program or app to browse/send/receive files by communicating with the FTP server.

### **RAID** (Redundant Array of Independent Disks)

RAID is using when users want to back up the data more securely. When users save a data, the device saves the data to multiple hard discs simultaneously. So the data can be safe although a hard disk is physically damaged.

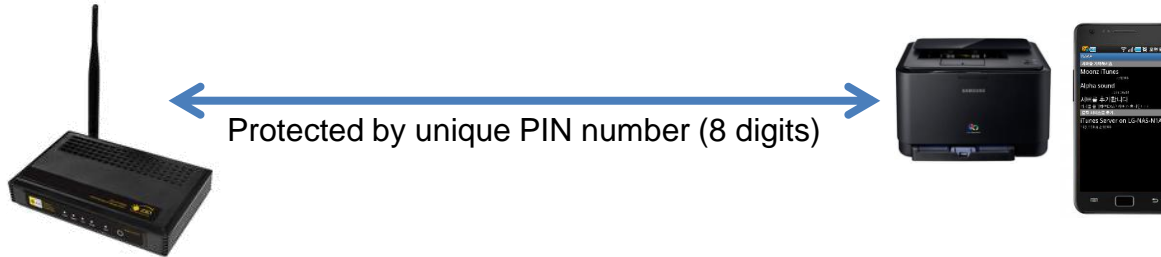
Since generally NAS has multiple physical disks, most NAS supports RAID as a basic function (SE-208BW does not support it).



## Security Options Related Glossaries (will support from next model)

### **WPS (Wi-Fi Protected Setup)**

- WPS (Wi-Fi Protected Setup) is one of wireless security standards applied to many Smart Devices.



- This method was hacked in last December, so countermeasures are under discussion.

But still there are no other reliable substitutions against WPS.

- WPS is already de facto standard, and will not be faded away until better substitution takes over it.

- Generally, WPS can be activated as below methods;

### **DMZ (De-Militarized Zone)**

- Same as its original meaning. DMZ places between local network (Wi-Fi) and internet, works as a firewall to protect against potential dangers from outside.

### **VPN (Virtual Private Network)**

- This is a private network virtually installed in public one. All data in the network are encrypted before transmission, and then decrypted from their receiver. This is one of the most advanced security option for private network installation. Most NAS and premium-level AP supports this function.



## iSCSI (Internet Small Computer System Interface)



- SCSI is an interface for computer peripherals to connect to computers, like SATA, IDE, PCIe, etc.
- iSCSI is a SCSI through internet. That is, conventional SCSI devices are connected to computer through cables, but iSCSI devices can be connected to computer through network. That's the main difference between SCSI and iSCSI.
- SE-208BW can be connected to computer with LAN cable or wirelessly by using iSCSI.
- In this case, when iSCSI initiator is activated and SE-208BW is linked to computer through network, SE-208BW is recognized by computer as a SCSI DVD-ROM drive.
- Because of SE-208BW's CPU usage rate, the performance is significantly lower than the condition when it is connected to computer via USB (will be better in next model).



# FREQUENTLY ASKED QUESTIONS



I want to connect my OSH (Optical Smart Hub) to my MacBook through iSCSI. But I have no idea where I can download an appropriate driver.

We don't offer iSCSI Initiator for Mac by ourselves. You may download globalSAN iSCSI Initiator (<http://www.studionetworksolutions.com>), and use it. You can purchase it or get a free version. But note that the free version does not support Mac OS 10.6.6 or newer.



I can't use backup functions from USB storage or mobile devices to ODD. I was informed by the app that I need to plug in an USB device to proceed backup.

To back up the data from a mobile device to a disc in the ODD of Optical Smart Hub, you must connect an additional USB storage device to the external port of the Optical Smart Hub for disc writing buffering. At this time, the free space of the USB storage device must be greater than the data which you back up.



I disabled DLNA function and then enable it again from Web UI. Then my USB storage can't refresh newly updated data.

Remove the USB storage, wait for some seconds and then plug it again. Then you can see the updated data.



# FREQUENTLY ASKED QUESTIONS



When I type <http://smarthub> in the web browser of address bar, what I can see is search result of “http://smarthub”, not the Web UI (OSH Settings) admin page.

It may be because of toolbar offered by search engines. Uninstall the toolbar and try again, or type <http://192.168.1.1> instead.



When I run Video Player or Music Player from Mobile Smart Hub app, it takes so much time to list my media files stored in USB/ODD. Is it a defect?

No. Mobile Smart Hub uses DLNA to stream media files from OSH to target devices. DLNA needs time to list files on the player (about 1~2 seconds per file), so it may take much time if you have many files in a storage. You can turn off “Create Thumbnail” option in Web UI to reduce indexing time.



When my USB storage is plugged in, OSH automatically creates a folder named “.access\_conf”. What is it for?

The folder stores file indexing data, and use it for reducing file indexing time through DLNA. By this way the time can be much faster from the second time.



# FREQUENTLY ASKED QUESTIONS



My PC can connect to the OSH thru iSCSI while the app remains connected. But the app doesn't work if I connected the OSH to PC thru iSCSI first.

Because of spec limitation of the OSH, you can't use the iSCSI (for PC) and the app simultaneously. Disconnect the iSCSI before using the App. We will fix this issue in the next model (which is expected be launched in this Aug).



How can I do "factory reset (or factory default)"?

You can find the reset button from the back of the OSH. Use a pin or a ballpoint pen to push the button for more than 5 seconds. Then you can see the LEDs are blinking. Wait until the OSH restores the factory default settings.



I have 8 partitions in my hard disk but the OSH shows only 7 partitions.

The OSH supports up to 7 partitions (device nodes).



What is NTP (Network Time Protocol) server?

The NTP automatically acquires current local time from the server. The OSH supports two servers (time.windows.com, time.nist.gov).



# FREQUENTLY ASKED QUESTIONS



I can't see Photo Backup function in my Mobile Smart Hub app.

The app doesn't support Photo Backup function because of iOS policy. Use Smart Backup function instead.



I can't see my music files copied through iTunes. In fact, I can see nothing in File Manager function.

You can only access the files copied or backed up thru the OSH. This is not a defect but a policy of iOS (Sandbox).

Regarding file accessibility, iOS version has following differences compared to Android version:

Functions	Android			iOS		
	My Device	Smart Hub		My Device	Smart Hub	
	File System	USB	DVD/CD	File System	USB	DVD/CD
File Manager	All	All	All	App's Docs*	All	All
Smart Backup	All	All	All	App's Docs	All	All
Music Player	All	All	All	App's Docs	All	All
Video Player	All	All	All	App's Docs	All	All
DVD/CD Player	-	-	DVD/CD	-	-	DVD/CD

\* App's Docs : "Document" folder in an app's Sandbox.



# FREQUENTLY ASKED QUESTIONS



I am intended to update the firmware. So I connected LAN cable, and then tried to connect Web UI thru wired LAN but failed.

If you connected a LAN cable when a network setting already exists, reboot the OSH by pulling out the power supply and plug it in again to refresh the network setting. Then connect to the Web UI again.



ODD burning is instable, slow, or down frequently although I connected both USB plugs (data & extra power) to PC.

It mainly because the PC can't supply enough power to burn ODD. Use both the USB cable and power supply (provided with the product) together for the best ODD performance if you use it as an external ODD.



I chose the authentication mode as WEP, and default key as "4" in Wireless Settings of the Web UI. But I can't use the network in my smartphone although the network settings are already done.

Default key setting should be the same between the OSH and target device. Make sure to set the same number and password (Most smartphones support "Default Key 1" only). In addition, we recommend using WPA/WPA2-PSK for your security.



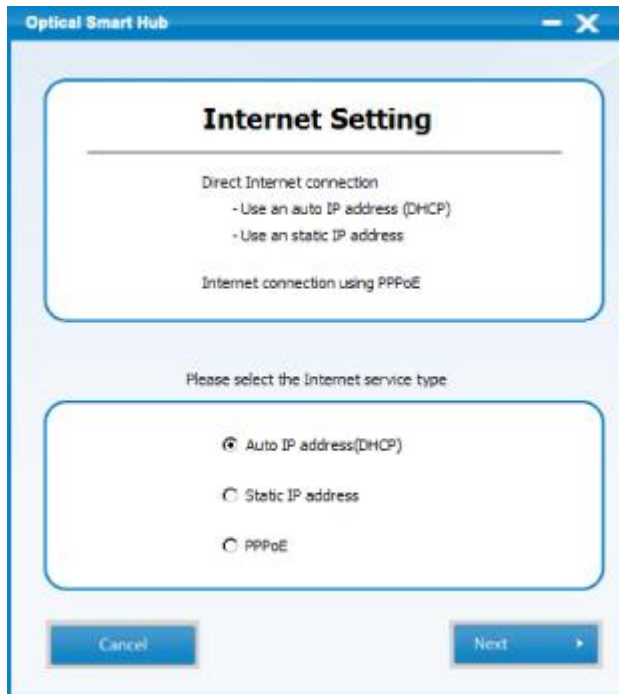


# FREQUENTLY ASKED QUESTIONS



How do I know my internet service type, and how I can set up my internet connection using the Optical Smart Hub installer?

Contact your internet service provider. Your service provider can immediately tell you the service type you are using now. After knowing your internet service type, run the installer. You can see the below menu after finishing Wi-Fi configuration.



- Choose Auto IP address if you are subscribing dynamic IP based service. All things will be done automatically.
- If you are subscribing static IP based service (mostly company network), ask your system manager to get IP/DNS addresses to configure the network.
- If you are subscribing PPPoE (ADSL), enter the ID/password received from your internet service provider.

See the user manual and quick guide to know the detailed step.

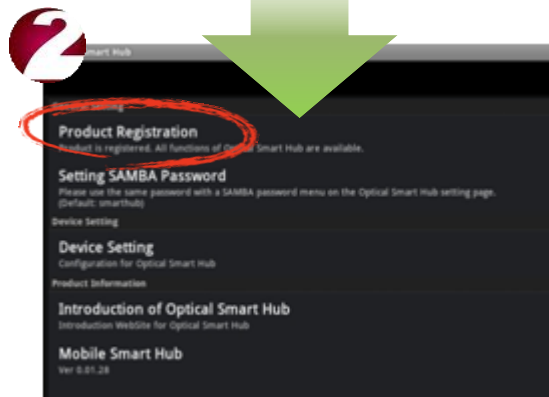
# FREQUENTLY ASKED QUESTIONS



The Mobile Smart Hub app needs to be registered to use full function. How can I do it?

Run the Mobile Smart Hub app in your mobile device. Then do the followings:

1. In the app's main menu, select "Setting".
2. Select "Product Registration".
3. Enter the serial number. It can be found on the lower left side of the barcode that is printed on the bottom of the OSH.



# FREQUENTLY ASKED QUESTIONS



How can I connect to the OSH from mobile devices (or from PC)?

1. Select SSID of the OSH you have. Default SSID can be found on the bottom of the OSH (Here we use 208BW300 as an example).
2. The password can be found below the location that you find the SSID (or use the SSID and password you changed if you already modified them).
3. Input the password to connect to the OSH, and wait until you are connected (The password is case sensitive. Make sure you input right one).



The image shows a sequence of three screenshots illustrating the connection process:

- Left Screenshot:** A mobile device's Wi-Fi settings screen. The 'Wi-Fi networks' section is expanded, and the network '208BW0300' is circled in red.
- Middle Screenshot:** The OSH (Optical Storage Hub) label. The SSID '208BW0300' and Password 'XBB00300' are circled in red.
- Right Screenshot:** A mobile device's Wi-Fi settings screen showing the 'Connect to 208BW0300' dialog box. The password field is filled with 'XBB00300' and circled in red.

You can change the SSID and password in Web UI (System → Wireless Settings). Also the OSH installer provides the option to change them during installation.

We recommend to change them to enhance security (it is not good to continue using password that is clearly printed on the OSH itself).

# SPECIFICATION



Category		SE-208BW Optical Smart Hub
Wireless	Compliant Standard	IEEE802.11 b/g (it is possible to use 802.11n)
	Frequency range	2.412~2.472 MHz
	Access method	CSMA / CA
	Data transfer method	DDSS, OFDM, Half Duplex
	Data transfer speed (max)	802.11b – 11 Mbps, 802.11g – 54 Mbps
	WDS	Supported
	Encryption type	WEP, WPA-PSK, WPA2-PSK, MIXED
WAN	Compliant Standard	IEEE802.3 / 802.3u / 802.3ab (10base-T, 100base-Tx)
	Access method	CSMA / CD
	ISP protocols supported	1Static IP, DHCP Client, PPPoE
	Interface connector type	Auto MDI-X, RJ-45
DLNA	DMS	Supported (Samsung AllShare supported)
iSCSI		Supported (read-only)
CDDA		Supported with the iOS/Android Optical Smart Hub app only
DVD Play back		Supported with the iOS/Android Optical Smart Hub app only
Smart Backup	USB	Supported with the iOS/Android Optical Smart Hub app only
	ODD	Supported with the iOS/Android Optical Smart Hub app only
FTP		Supported (we recommend to use FTP client software)
SAMBA		Supported

A group of children are gathered around a table, looking at a tablet. The scene is set in a classroom or library with bookshelves in the background. The image is faded and serves as a background for the logo.

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