

Power 7 WiFi Storage Device (SeaBird) Datasheet



Table of Content

Introduction	2
Target Users/Markets	2
Features	3
Applications	4
Hardware Specifications	5
Software Specifications	6
File & System Manager App	8
System Requirements	9
Client Tools	9
Seabird on the Beach	10

Version 0.1

Last Updated: Dec.9th, 2014

Author: Power 7 PM Department

pm@power7tech.com.cn



Introduction

Power7 WiFi dongle device(Project Name: Seabird)is a portable wireless storage device with one USB 2.0 host. Seabird allows you to convert any USB external storage devices into a WiFi accessible media. Connect your USB external storage into the built-in USB port. Power the unit on and you can now wirelessly access your videos, music, photos, data and stream it to your iPad®, iPhone®, tablets, smartphones, and notebooks. There is no need to worry about running out of space on your mobile devices. As simple as 1-2, you are ready to enjoy your device and no waiting needed. Without the wired limitation, you can enjoy listening to music while travelling with Seabird in your backpack, share photo with your family by placing it at any house corner or lay back watching movies in the beach – with a range of up to 150ft you'll never feel tethered to your Seabird. Best of all, the Seabird can bridge the Internet connection to your existing wireless/wired router, so you may access the data in the storage while surfing the Internet simultaneously. Also it can works as a powerbank to charge your phone/PADs,upto 1A ouput current.



Target Users/Markets

- **Mobile Device User**

iPhone®, iPad®, smartphone, tablet or notebook user may unleash from very limited storage capacity by throwing large files such as movies, music or PowerPoint files to Seabird. Also it is your mobile device's powerback.

- **Frequent Business Traveler**

Businessman may show customer the product datasheet, contract or quotation in Seabird anytime in the coffee shop, meeting room or hotel. Also it is your mobile device's powerback.

- **Movies & Music Download Mania**

Have already downloaded hundreds or thousands of movies, music by BitTorrent at home but you can not enjoy watching or listening to them while you are outside? Seabird is the solution



for you.

- **Salesman**

Seabird may save mobile sales person like insurance broker, realty broker from carrying bulky brochure or flyers.

- **Legacy USB External HDD Device Hater**

Just can not stand anymore to be tethered by USB cable whenever you need to transfer files between your notebook and external HDD? Seabird is the answer for you!

- **Small Enterprise Mobile NAS**

The critical and confidential business data should not be bound to the file server or NAS in your company. Seabird allows you to have a backup of your important data which is portable with you.

- **Home Mobile NAS**

With Seabird at home, you do not need to always turn on your notebook in order to share data with your family. Moreover, Seabird can be your portable entertainment center while your family go out for vacation.

Features

- **File and System Manager App**

Two way file transferring between Seabird and your iPhone®, iPad®, smartphone, tablet or computer with Wi-Fi connectivity (802.11 b/g/n). Available iOS and Android mobile app with search utility function to find and locate specific data file.

- **Bridge to Internet Access**

Bypass your Internet access to your existing WiFi router, so you may access any data in the USB Storage while surfing the Internet simultaneously. (For wired only environment, we provide optional RJ45 Ethernet port).

- **USB Storage Accessible while Charging**

Using notebooks with available USB port or optional AC adaptor, the WiFi storage can be accessed while charging the internal battery.

- **Share with Friends & Family**

Allow 5 maximum concurrent connections for sharing videos, audios, photos and data.

- **Extended Battery Life**

Up to 20 hours of continuous use battery life for maximum portability.(under USB flash attached)

- **USB 2.0 Port for Battery Charging**

USB 2.0 port for internal battery charging

- **USB 2.0 Host Port for power bank**

USB 2.0 host port is also can used as your power bank to charge your mobile device,as iPhone,iPAD(mini), android phone and PADS, up to 1A @5A current. This function is worked in both power on /off mode.

Easy to Configure and Operate



Friendly user interface design with wizard guide to assure even the novice can get Seabird start to operate in minutes.

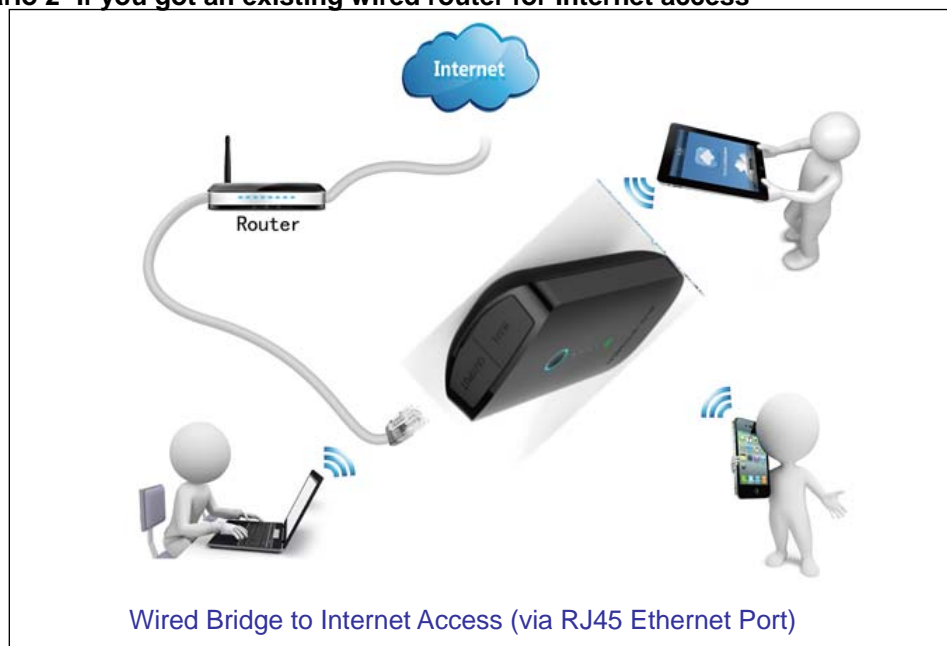
Applications

- **Bridge to Internet Access**

Scenario 1 - If you got an existing WiFi router for Internet access



Scenario 2- If you got an existing wired router for Internet access





Hardware Specifications

Project name	Seabird	
Model name	RP-WD03	
CPU	Model	MT7620N
	Frequency	MIPS24KEc 580MHZ
Flash	Model	EN25Q64
	Capacity	8MByte SPI flash
SDRAM	Capacity	DDR1 32MByte (256Mbit)
WiFi	standard	802.11b/g/n
	Frequency	2.4GHz
	Antenna Array	2T2R
	Signal strength	17dBm
	Speed	Max 300Mbps
WAN port	Protocol	Ethernet
	Speed	100Mbit/s
Interface	Battery LED (White*4pcs)	LED light to show the percentage of remaining power. As below : LED1: 0~25% LED2:26~50% LED3:51~75% LED4:76~100%
	WiFi LED (Blue/Green)	WiFi LED shows the system initiating state: Blue LED Start flashing: Kernel loading in process Blue LED Stop flashing: System initiation completes GreenLED: Internet is connected successful
	SD Card R/W LED	Blue
	SD Slot	Support to SDXC, up to 2TB
	Power button	1. Power on/off button (2 seconds long pressing) 2. percentage of remaining power button(short pressing)
	Reset button	Factory default reset button
	USB device interface	Micro USB 2.0 for charging internal



		battery only, up to 1A current.
	USB host interface	In power on mode, it can connect USB storage for WiFi accessing. In power on & off mode, It can charge your mobile device (iPhone/iPAD/iPAD mini, other smart phone/PAD) , up to 1A current.
	WAN port	RJ45 100Mbps
Battery	Capacity	6000mAh 18650 battery
	Charging current	1.0A
Power dissipation	Max power dissipation (tested with TOSHIBA 1TB HDD)	3.7W
	Standby power (without Read/Write for TOSHIBA 1TB HDD during the test)	2.5W
	Standby power (tested with TOSHIBA 1TB HDD, HDD slept during the test)	2.1W
Environmental requirements	<ul style="list-style-type: none">• Operating Temperature: 5°C to 35°C• Non-Operating Temperature: 0°C to 60°C• Operating Humidity: 5% to 90% (Non-condensing)• Non-operating Humidity: 5% ~ 90 % (Non-condensing)	
Product dimension	93.5 L x 55mm W x 27.8mm H	
Emission (EMI), Safety & Other Certifications	<ul style="list-style-type: none">• FCC Class B• CE	

Software Specifications

System setting	Language selection	To select your native languages
	Firmware upgrade	Automatically upgrade firmware
	Configuration setting	To backup and retrieve system



		configuration setting
	Factory default setting restore	To restore default system setting originated in factory production
File system	NTFS	A) Support Microsoft Windows NTFS file system B) Application tools: <ul style="list-style-type: none">Tuxera NTFS tool for mounting file systemNTFS file system inspection and repair tool
	FAT16/FAT32	A) Support Microsoft Windows FAT16/FAT32/exFAT file system B) Application tools: FAT file system inspection and repair tool
	exFAT(Optional)	Both support Microsoft and Mac® OS file system
File service	CIFS protocol	Provide shared services to files and printers for clients on Microsoft Windows Network
	Samba service	Provide shared services to files and printers for clients on Microsoft Windows Network and Unix-Like Network
	DLNA	Provide DLNA server (DMS)
HTTP(S) service	OS	A build-in browser which support common operation system such as Windows, Linux, Mac® OS and smart terminal for easy management
	WebDAV protocol	Makes the Web a readable and writable medium which allow users to edit and manage documents and files stored on World Wide Web servers
Access control	Password protection	A) WiFi access control: <ul style="list-style-type: none">NoneWPAWPA2WPA&WPA2 B) WEB access control <ul style="list-style-type: none">Password login C) Samba access control <ul style="list-style-type: none">Password login Default security: A) Authentication needed with password 11111111



		B) No authentication C) No authentication
Network Management	WiFi setting	<ul style="list-style-type: none"> WiFi login history cache WiFi auto login A) Available wireless networks display
	WAN side setting	<ul style="list-style-type: none"> Static IP Dynamic IP PPPoE(PPTP) 3G
	LAN side setting	A) IP setting B) Subnet mask setting C) DHCP server setting D) Default gateway setting E) Default DNS setting
Application software	Client	A) Windows XP/2003/Vista/7/8, Linux, Unix, Mac® B) Android: tablet, smartphone C) iOS: iPad®, iPhone® D) WP: Window Phone
File Formats	iOS Client	A) Audio: Support formats of MP3, AAC, m4a, wav, aiff B) Video: Support formats of AVI, M4V, MKV, MP4, MPG, RMVB, RM, WMV, 3GP, MOV, TS C) Photo: Support formats of jpg, tiff, bmp, gif(image) D) Document: Support formats of keynote, numbers, page, excel, word, pdf, txt, ppt
	Android Client	A) Audio: Support formats of MP3 only at present B) Video: AVI, M4V, MKV, MP4, MPG, RMVB, RM, WMV, 3GP, MOV, TS C) Photo: Support formats of .jpg, .png D) Document: Support formats of txt, word, excel, ppt and pdf

File & System Manager App

- Support remote access for controlling and documents accessing.
- The main interface have Media sort by video, photo, music and documents
- Support search function based on media type



-
- File management interface supports list / thumbnail view , support pictures and documents sharing
 - Support copy/delete/create function and support local/Wi-Fi Storage data transmission in /between
 - Playing music/video/photos by iPhone®, iPad® and tablet and smartphone (JPG, mp3, mp4, decoding ability more dependent on the system, file format depend on the player software installed on you device, Power7 suggest to use RockPlayer/Mobo Player on the Android and Oplayer/GoodPlayer on iOS).
 - Support the operation of long-pressing the file to invoke the third-party player
 - Support to play the photos by filmstrip mode and support background music playing
 - Support video drag and play
 - Support music artwork shows, circulation play set, drag operation
 - Support email to send out pictures/documents
 - Support network and device's parameters setting
 - Transfer videos and photos from and to the iPhone®, iPad® to Stone
 - Support DLNA/ Chromecast and Airplay(iOS only) for pushing screen to TV.

System Requirements

- iPhone®, iPad®, smartphone, tablet or computer with Wi-Fi connectivity (802.11 b/g/n)
- Mac® or PC computer running Windows 8,7, Windows Vista, Windows XP or Mac OS® X 10.6.0 or later operating system for loading media on to Seabird via USB

Client Tools

■ Computer Client Tool

- Auto search and access the Seabird on WLAN
- Supports Windows XP/2003Vista/7 /8 and Mac® iOS operation system

■ Mobile Application Tool

- Supports iOS (iPhone® and iPad®) and Android (smartphone and tablet)
- Stream audios and videos and view photos from the Seabird

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is

no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This device complies with FCC SAR exposure limits set forth for an uncontrolled environment. SAR compliance for using the equipment in close proximity to the human body has been evaluated at 10mm. This equipment must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and consider removing the no-collocation statement.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution!

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Seabird on the Beach



Are you ready to have a completely relaxing vacation on the beach with Seabird?



USA OFFICE

World Headquarters

4601 E. Airport, Drive, Ontario, CA 91761, USA

<http://www.power7tech.com>

sales@power7tech.com

Tel: 909.230.6788 Fax: 909.230.6889

TAIWAN OFFICE

Power 7 Technology Corporation

5F-3, No.258, Liancheng Road, Zhonghe

District, New Taipei City 235, Taiwan(R.O.C.)

<http://www.power7tech.com.tw>

sales@power7tech.com.tw

Tel: 886.2.8227.1790 Fax: 886.2.8227.1026

CHINA OFFICE

Power 7 (Shenzhen)Technology Company, Ltd.

Building A, Zhangkeng Industry Zone, Minfu Road Minzhi

Village, Longhua Town, Baoan District Shenzhen, Guandong

Province PR, China

<http://www.power7tech.com.cn>

pm@power7tech.com.cn

Tel: 86.755.8886.8949 Fax: 86.755.8179.8032