

SoftBank 101SI

User Guide



SoftBank

Introduction

Thank you for purchasing SoftBank 101SI.

- Read the Quick Start (Japanese) and this guide thoroughly beforehand for proper usage.
- Accessible services may be limited by contract conditions or service area.

SoftBank 101SI Router is compatible with 4G/3G network technologies.

Notes

- Unauthorized copying of any part of this guide is prohibited.
- Contents are subject to change without prior notice.
- Steps have been taken to ensure the accuracy of descriptions in this guide. If you find inaccurate or missing information, please contact SoftBank Customer Support, General Information. (P.8-3)

You may download this guide from SOFTBANK MOBILE Corp. Website.
<http://www.softbank.jp/mb/r/support/101si/>

Chapter Contents

Summarizes and describes the preparations and knowledge needed to use Mobile Router.

Work required when initially connecting via WLAN to game devices, WPS compatible devices, and PCs.

Use with Windows PC.

Use with Mac.

Describes methods for using Web UI to set Mobile Router's various functions.

Describes methods for using Utility Software to set Mobile Router's various functions.

Emergency handling methods.

Summarizes information on Mobile Router.

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Introduction

Factory Default Settings

The following information is needed when connecting Mobile Router to WLAN terminals.

The device's unique network name (SSID) and encryption key are set to factory default settings. Check SSID (network name), WEP key (5 character or 10-digit hexadecimal numeral encryption key), and WPA key (8 - 63 character or 64-digit hexadecimal numeral encryption key) that are printed on the "WLAN default setting sticker."

* This product is shipped with two SSID configurations.

The first SSID is set to WPA and the second SSID to WEP. It is recommended to use WPA/WPA2 authentication method rather than WEP for greater security. Please note that some game devices may not be connectable using WPA/WPA2 method. Please refer to manuals for each peripheral for more detailed information on supported authentication methods.

Operating Environment

Use Mobile Router in any of these operating environments.

● Compatible Operating System

Windows XP Home Edition (Service Pack 2 or later)
Windows XP Professional (Service Pack 2 or later)
Windows XP (64-bit)
Windows Vista Home Basic (32-bit or 64-bit)
Windows Vista Home Premium (32-bit or 64-bit)
Windows Vista Business (32-bit or 64-bit)
Windows Vista Ultimate (32-bit or 64-bit)
Windows 7 Starter Edition (32-bit)

Windows 7 Home Premium (32-bit or 64-bit)

Windows 7 Professional (32-bit or 64-bit)

Windows 7 Enterprise (32-bit or 64-bit)

Windows 7 Ultimate (32-bit or 64-bit)

Mac OS X 10.4 - 10.7 (Intel)

Compatible OS includes both English and Japanese versions.

● Memory Requirements

Windows XP: 256MB (over 512MB recommended)

Windows Vista: 512MB (over 1GB recommended)

Windows 7 (32-bit): over 1GB

Windows 7 (64-bit): over 2GB

Mac OS X: 256MB (over 512MB recommended)

● Available Hard Disk Capacity

50MB (over 100MB recommended)

● Recommended resolution: over 1024 x 768

● Compatible browser

Windows : Microsoft Internet Explorer 6, 7, 8

Mac OS: Safari 3, 4, 5

Enable Compatibility View in Internet Explorer 8 to access without any problems.

Use outside these environments may affect performance. Operating environment (hardware, connected peripherals, installed applications, etc.) may also affect performance.

► For PC support, OS version upgrade information, etc., see corresponding manufacturer's product support documentation.




Safety Precautions

Usage Conditions

- Mobile Router can be used within SoftBank Mobile service areas.
- Network transmission may be disrupted even within SoftBank service areas if radio signal quality is degraded due to specific environments, such as indoor areas, inside trains, tunnels, underground areas, behind buildings, valleys, etc. Please note that there may also be regional spots with poor network transmission.
- Communications may suddenly be disrupted in areas with low signal quality. Please note that communications may be disrupted even in areas with good signal quality.
- Although this product employs highly secure encryption, please be aware that any communication system using radio waves can be exposed to third parties.
- Since Mobile Router is a wireless base station as stipulated by the Radio Law, it may be subject to inspection based upon the Radio Law.
- Please use Mobile Router without disturbing others in public places.
- This product cannot be used without a USIM Card.
- SOFTBANK MOBILE Corp. will not be held responsible for the expenses of any damages incurred by the use of the product in this manual and all subsequent repairs.
- Read the instructions in Safety Precautions carefully before using this product.
- Make sure to follow the instructions in Safety Precautions to avoid injury or property damage to user and third parties.
- SoftBank is not liable for damages incurred by the user or third parties due to Mobile Router malfunctions, incorrect operations or inconveniences caused by missed transmissions.

■ Labels

These labels indicate the degree of risk from improper use. Make sure you thoroughly understand meanings before reading on.

 DANGER	Great risk of death or serious injury ¹⁾
 WARNING	Risk of death or serious injury ¹⁾
 CAUTION	Risk of injury ²⁾ or damage to property ³⁾

¹⁾Includes blindness, wounds, low/high heat burns, electric shock, bone fractures, poisoning or other physical harm with aftereffects, or requiring hospitalization or ongoing hospital visits.







²⁾Includes wounds, burns, electric shock or other physical harm not requiring hospitalization or ongoing hospital visits.

³⁾Includes damage to home, furniture, livestock, pets, etc.

Safety Precautions






■ Symbols

These symbols indicate prohibited or compulsory actions.
Make sure you thoroughly understand meanings before reading on.

 Prohibited	Prohibited actions
 Do Not Disassemble	Disassembly prohibited
 Avoid Liquids Or Moisture	Exposure to liquids prohibited
 No wet hands	Handling with wet hands prohibited
 Compulsory	Compulsory actions
 Unplug First	Disconnect power source







Mobile Router, Battery, AC Adapter & USB Cable, Mobile Battery (Common)

DANGER




 Prohibited	Do not charge, use or leave Mobile Router in high temperature areas (near fires, heaters, in places subjected to direct sunlight, or inside of vehicles in the sun, etc.). In addition, do not charge, leave, use or carry Mobile Router in warm areas (inside of kotatsus, electric blankets, or inside pockets together with pocket heaters, etc.) where heat easily builds up since the same risks might be incurred. May cause warping or malfunction, and may cause Battery and Mobile Battery to leak, overheat, ignite or rupture.
 Prohibited	Do not use excessive force to install Battery, or insert USB Cable into AC Adapter, Mobile Battery or Mobile Router. Confirm Battery terminal orientation before installation. Battery and Mobile Battery may leak, overheat, rupture or ignite.
 Avoid Liquids Or Moisture	Do not expose to liquids. Do not leave Mobile Router or related hardware wet after exposure to water, pet urine, etc., and do not insert wet Mobile Router into PC. May cause overheating, electric shock, fire, injury or malfunction. Use them in an appropriate place properly.
 Do Not Disassemble	Do not disassemble, modify or solder Mobile Router or related hardware. May cause fire, injury, electric shock or malfunction. Modifying Mobile Router is a violation of the Radio Act, thus penalties may be imposed.
 Compulsory	Use SoftBank specified Battery, AC Adapter or Mobile Battery only. Use of non-specified accessories may cause malfunction, Battery or Mobile Battery to leak, overheat, rupture or ignite; AC Adapter may overheat, ignite or malfunction.

Safety Precautions

WARNING

 Prohibited	Do not place Mobile Router, Battery, AC Adapter, USB Cable or Mobile Battery in/on ovens, microwave ovens, pressure cookers, induction stoves or other cooking appliances. May cause Battery or Mobile Battery to leak, overheat, rupture or ignite; or may cause Mobile Router, AC Adapter or USB Cable to overheat, emit smoke, ignite or malfunction.
 Prohibited	Do not apply strong shocks or impacts. May cause malfunction.
 Prohibited	Keep liquids (water, pet urine, etc.) and conductive materials (e.g. pencil lead, metal fragments, metal necklaces, hairpins, etc.) away from External Device Port. In addition do not put anything inside of it. May cause short circuit, resulting in fire or malfunction.
 Prohibited	Use outside of Japan is prohibited. Mobile Router is exclusively for Japan. It is not for use overseas.
 Compulsory	Stop using Mobile Router near gas stations or places with fire/ explosion risk. Gases may ignite. Using Mobile Router near petrochemicals or other flammables may cause fire or explosion.
 Compulsory	If any unusual sounds, odors, smoke or other abnormalities occur while using or storing, turn Off PC connected to Mobile Router. Continued use may cause fire or electric shock.

CAUTION


 Prohibited	Do not place Mobile Router on unstable surfaces. Mobile Router or related hardware may fall, resulting in injury, malfunction, etc.
 Compulsory	Keep Mobile Router out of infants' reach. Infants may choke from swallowing Mobile Router or related hardware or be injured, etc.
 Compulsory	If your child is using Mobile Router, explain all instructions and supervise usage. Misuse may cause injury, etc.

Battery and Mobile Battery






Check Battery type on Battery label. Properly use and dispose of Battery and Mobile Battery according to type.

Label	Battery type
Li-ion	Lithium-ion Polymer


DANGER









 Prohibited	Do not throw Battery into a fire. May cause Battery and Mobile Battery to leak, rupture or ignite.
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Safety Precautions

 Prohibited	Do not puncture Battery with a nail, hit it with a hammer, step on it or subject to strong impact. May cause Battery and Mobile Battery to leak, overheat, rupture or ignite.
 Prohibited	Do not touch the contacts of Battery or Mobile Battery with metals such as wires, etc. Do not carry or store conductive materials (e.g. pencil lead, metal fragments, metal necklaces, hairpins, etc.) together with Battery and Mobile Battery. May cause Battery and Mobile Battery to leak, overheat, rupture or ignite.
 Prohibited	Do not charge with unspecified procedures. May cause overheating, bursting, fire or malfunction.
 Compulsory	If Battery and Mobile Battery fluid gets into eyes, immediately rinse with clean water and consult a doctor. Do not rub eyes. Failing to do so may result in loss of eyesight.
 Compulsory	Use SoftBank specified cable to charge Mobile Battery. Use of non-specified cable may cause overheating, bursting, fire or malfunction.



WARNING

 Prohibited	Do not use Mobile Battery if abnormalities such as deformation or damage is spotted due to dropping. May cause fire, burns, injury, electric shock, etc.
---	---

 Prohibited	Do not use Mobile Battery in places where there is a lot of moisture such as in bathrooms, etc. May cause fire, burns, electric shock, etc.
 Prohibited	Do not touch Mobile Battery if it starts to thunder while it is charging. May cause electric shock.
 Prohibited	Do not cover or wrap Mobile Battery with clothing or bedding while using or charging. Do not cover or wrap Mobile Battery with clothing or bedding while using or charging.
 Prohibited	Do not charge inside of bags or wrapped up in fabrics. May cause a fire or malfunction due to heat buildup.
 Compulsory	If Battery and Mobile Battery fluid gets on your skin or clothing, immediately stop Mobile Router use and rinse with clean water. Battery fluid may harm your skin.
 Compulsory	If Battery is not fully charged even after specified charging time, stop charging. Battery and Mobile Battery may leak, overheat, rupture or ignite.
 Compulsory	If you notice an unusual odor, overheating, discoloration, deformation, etc. while using, stop using or charging Battery and Mobile Battery, and be careful not to burn yourself, disconnect USB Cable, and remove Battery and Mobile Battery, also keep away from open flames. Continued use may cause Battery and Mobile Battery to leak, overheat, rupture or ignite.
 Compulsory	Keep your pet from biting Battery and Mobile Battery. Battery and Mobile Battery may leak, overheat, rupture or ignite, thereby causing malfunction or fire.




Safety Precautions

⚠ CAUTION

 Prohibited	Do not dispose of Battery and Mobile Battery as municipal waste. Bring used Battery to a SoftBank Shop or recycling center after insulating the terminals with tape. Be sure to observe local regulations regarding Battery disposal.
 Prohibited	Keep Mobile Battery out of places with moisture or dust, or places with high temperatures. May cause fire, burns, electric shock, etc.

Mobile Router

⚠ WARNING

 Prohibited	Do not sit down with Mobile Router in your trousers pocket. Excess weight may damage Display, Battery or other parts resulting in overheating, fire or injury.
 Prohibited	Do not use Mobile Router while driving cars, riding bicycles or motorcycles. May cause traffic accidents.
 Compulsory	Power Off nearby electronic devices employing high precision control systems or weak signals. May cause electronic malfunctions, etc. * Be especially careful near the following devices: Hearing aids, implanted cardiac pacemakers, implanted defibrillators and other electronic medical equipment; fire alarms, automatic doors and other automatic control devices.



Compulsory

Because Mobile Router radio waves may impair aircraft operations, please power Off Mobile Router while aboard.

When Mobile Router use aboard aircraft is allowed, please follow instructions of airline personnel.



Compulsory

Quickly move to a safe place indoors if it starts to thunder while using outdoors.

There is a risk of lightning strike or electric shock.

⚠ CAUTION



Prohibited

Do not use Mobile Router in a vehicle if it affects in-vehicle electronic devices.

Mobile Router use in some types of vehicles may, in some rare cases, affect in-vehicle electronic devices and interfere with safe driving.



Prohibited

Do not let magnetic cards, etc. come close to Mobile Router.

The magnetic data in cash cards, credit cards, telephone cards, floppy disks, etc. may be erased.




Compulsory

If you experience any skin irritation associated with Mobile Router use, discontinue Mobile Router use and consult a doctor.

Metal and other materials may cause skin irritation, rashes or itchiness depending on your physical condition.



Parts	Material/Finishing
Terminal	PC/finish
Display Panel	PC + PET film
Operation Key (Power, WiFi/WPS, CONNECT)	PC/tin metalized + finish
External Connector Cover	PC + urethane/finish
Battery Cover	PC/finish

Safety Precautions

 Compulsory	Since Mobile Router operates at a high temperature, it may become overheated. Extended contact with the skin may result in burns.
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USIM Card










 Prohibited	Do not use excessive force when inserting or removing USIM Card. May cause malfunction. Be careful not to injure hands or fingers when removing USIM Card.
 Prohibited	Do not use USIM Card other than specified one. May cause data loss or malfunction.

AC Adapter & USB Cable








 Prohibited	Do not cover or wrap with clothing or bedding while charging. Heat may build up resulting in fire or malfunction.
 Prohibited	Use only the specified voltage. Non-specified voltages may cause fire or malfunction. AC Adapter: AC 100V-240V Input Do not use power adapters. Using AC Charger with step-up/step-down transformer may cause fire, electric shock or malfunction.

 Prohibited	Do not touch AC Adapter if it starts to thunder while it is charging. May cause electric shock.
 Prohibited	Do not use damaged USB Cable. May cause fire, burns, electric shock, etc.
 No wet hands	Do not plug/unplug AC Adapter with wet hands. May cause electric shock or malfunction.
 Compulsory	If dust accumulates on AC Adapter plug, grasp plug and unplug AC Adapter from outlet and wipe with a dry cloth. Failing to do so may cause fire.
 Compulsory	When plugging AC Adapter into outlet, keep conductive materials (pencil lead, metal fragments, necklaces, hairpins, etc.) away from AC Adapter prongs/USB Cable plugs; plug AC Adapter firmly into outlet. Failing to do so may cause electric shock, short circuits, fire, etc.
 Unplug First	Grasp plug and unplug AC Adapter from outlet before extended periods of Mobile Router disuse. Failing to do so may cause electric shock, fire or malfunction.
 Unplug First	If liquid (water, pet urine, etc.) gets into AC Adapter, immediately grasp plug and unplug AC Adapter from outlet. Failing to do so may cause electric shock, smoke emission or fire.

Safety Precautions





⚠ CAUTION

 Prohibited	When AC Adapter is connected to an outlet, do not pull on cord or otherwise or subject to strong impact. May cause injury or malfunction.
 Prohibited	Do not pull, bend with excessive force or twist USB Cable. Do not damage or modify USB Cable. Do not place objects on USB Cable. Do not expose USB Cable to heat; avoid heaters. Damage to USB Cable may cause electric shock, overheating or fire.
 Avoid Liquids Or Moisture	Do not touch Mobile Router with sweaty hands or place it into a sweaty clothes pocket. Sweat and humidity may corrode internal components of Mobile Router and cause overheating or malfunction.
 Compulsory	Do not unplug AC Adapter by pulling the cord. Firmly hold plug and unplug AC Adapter. Pulling the cord may damage the cord resulting in electric shock or fire.
 Unplug First	Firmly hold plug and unplug AC Adapter from outlet before cleaning. Failing to do so may cause electric shock.

Electronic Medical Equipment

This section is based on “Guidelines on Safeguarding Medical Equipment from Electromagnetic Waves from Mobile Phones and Other Devices” (Electromagnetic Compatibility Conference Japan), and “Research Report on the Influence of Electromagnetic Waves on Medical Equipment” (Association of Radio Industries and Businesses, March 2001).

⚠ WARNING

 Compulsory	Keep Mobile Router at least 22 centimeters away from implanted cardiac pacemaker or implanted defibrillator. Radio waves may interfere with implanted pacemakers or defibrillators.
 Compulsory	If you intend to use electronic medical equipment other than implanted pacemaker/defibrillator outside medical facilities, consult the vendor on radio wave effects. Radio waves may interfere with electronic medical equipment.
 Compulsory	Observe the following in medical institutions. Radio waves from Mobile Router may affect electronic medical equipment. <ul style="list-style-type: none"> Do not enter an operating room or an Intensive or Coronary Care Unit while carrying Mobile Router. Power Off Mobile Router in hospitals. Even in lobbies or other places where Mobile Router use is permitted, turn Off Mobile Router near electronic medical equipment. Obey medical facility rules on use.
 Compulsory	Do not use in crowds/trains. People with implanted pacemaker/defibrillator may be near. Radio waves may interfere with the operation of implanted cardiac pacemakers or implanted defibrillators.

Usage Basics

- Mobile Router transmissions may be disrupted inside buildings, tunnels or underground, or when moving into/out of such places.
- Use Mobile Router without disturbing others. Theaters and public transportation systems may or may not allow use of Mobile Router.
- Mobile Routers are radios as stipulated by the Radio Law. Under the Radio Law, Mobile Router must be submitted for inspection upon request.
- Files may be lost or damaged in the following situations. SOFTBANK MOBILE Corp. is not liable for damages incurred due to lost or altered information. To minimize risk, back up data and store separately.
 - When using Mobile Router incorrectly.
 - When affected by static electricity or electrical noise.
 - Powering Mobile Router Off while in use.
 - When Mobile Router breaks down or is submitted for repair.
- The Ordinance of the Ministry Specifying Goods and Technologies Pursuant to Provisions of the Appended Table 1 of the Export Trade Control Order and the Appended Table of the Foreign Exchange Order documents might be needed depending on what kinds of devices are taken overseas, but if Mobile Router is taken abroad on trips or short business trips for personal usage, they essentially are not needed when bringing it back in. However, if Mobile Router is used by other individuals or handed over to them, an export license may be required.

In addition, if Mobile Router is taken to countries (Cuba, North Korea, Iran, Sudan and Syria) which are subject to U.S. government stipulated export restraints, then U.S. government export licenses might be required.

For particulars of regulations for export laws and ordinances and procedures visit the Ministry of Economy, Trade and Industry's Security Export Control Division's website.

- Do not use Mobile Router in the proximity of areas where explosive materials are handled. An explosion may be induced. In addition, explosive devices might be affected.
- Mobile Router USIM Card cannot be used with some WLAN devices (including SoftBank models).
- If Mobile Router is used for a long time or while charging, Mobile Router may become hot.
- Prolonged contact with skin may cause burn injuries.
- AC Charger may become hot while charging. Use it properly.

Aboard Aircraft

- Radio waves may impair aircraft operations; power Off Mobile Router while aboard aircraft. If Mobile Router use is allowed, follow the instructions of airline personnel.

General Notes

Handling

- Do not expose Mobile Router to rain, snow or high humidity. Mobile Router is not waterproof.
- Avoid extreme temperatures/direct sunlight/dusty areas.
- Do not drop or subject Mobile Router to shock.
- Clean Mobile Router with soft dry cloth. In addition, do not use alcohol nor thinners since their use may fade colors and lettering.

PIN

PIN (Personal Identification Number) is used to prevent unauthorized users from using USIM Cards.

When purchased USIM Card's PIN is unverified, PIN is set to "9999."

When PIN is set to verified/unverified, PIN locks up after three incorrect PIN inputs. PUK is required to unlock a locked PIN. For details, inquire with SoftBank Customer Support as listed on P.8-3. Ten consecutive incorrect PUK inputs completely locks USIM Card, so be careful since this cannot be unlocked.

- Once PIN is set to verified, Mobile Router connected to a PC cannot be used without input of a PIN.

Wi-Fi (WLAN)

■ Precautions

- Do not use Mobile Router (WLAN) near magnetic devices such as electrical appliances or AV/OA devices, or where there are electromagnetic waves.
 - Magnetism or electrical noise may increase noise or disable communications (especially when using a microwave oven).
 - Mobile Router use near TV, radio, etc., may cause interference.
 - The target access point may not be detected correctly if there are multiple access points nearby.

● Wireless Frequencies & Modulations

Wireless Frequencies & Modulations information: Inside Mobile Router Battery Cover.



- | | |
|-------|--|
| 2.4 | : 2400 MHz range |
| DS/OF | : DSSS or OFDM modulation |
| 4 | : Maximum interference range of 40 m |
| ■ ■ ■ | : Utilizes 2400 - 2473 MHz band, and mobile identifier device bands are avoided. |

2.4 GHz Device Cautions

Mobile Router operates in the same frequency band used by industrial, scientific, consumer and medical equipment including microwave ovens, premises radio stations for identifying mobile units used in the manufacturing lines of plants (radio stations requiring a license), specified low power radio stations (radio stations requiring no license) and amateur radio stations (radio stations requiring a license).

1. Before using Mobile Router, confirm that on-site wireless base stations for identifying mobile units, specified low power radio stations and amateur radio stations are not being operated nearby.
2. If Mobile Router causes disruptive radio interference to on-site wireless base stations for identifying mobile units, immediately change frequency band, stop use, or move to another location to avoid crosstalk (e.g. wall partitions, etc.).

■ WLAN Usage Security Precautions

Since information is exchanged between terminals and the WLAN access points, an advantage of WLAN connections is that LAN connections can be freely enabled within the reachable range of the signals. Conversely, since the signals go through barriers (such as walls) within the reachable range of the signals, if the security settings are not set, there is a possibility that security issues may arise from the interception of communication data and illegal intrusions. Mobile Router is configured to work with its security functions at the time of purchase. However, in consideration of security, it is recommended that the security settings at the time of purchase be changed. For security function setting procedures, see this guide or the user's manuals for the wireless terminals.

- Use Mobile Router with the understanding that the WLAN specifications can be breached via special methods.
- Inquire with Customer Support (P.8-3) to consult if you are unable to configure the security settings.
- Understand that SoftBank cannot ensure whether or not that the aforementioned security issues shall not arise when using the WLAN functions.

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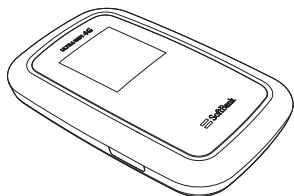
Getting Started

Package Contents

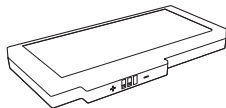
The following items are included in the package.

Confirm package contents before use.

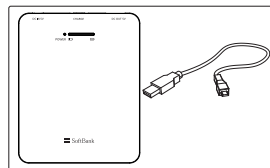
Contact SoftBank Customer Support (P.8-3) for missing items.



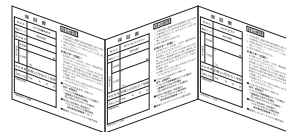
101SI



Battery (SIBAB1)



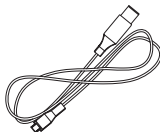
Mobile Battery (SIKAB1)



Warranty
(Unit x 1, AC Adapter x 1,
Mobile Battery x 1)



AC Adapter (SICAB1)



USB Cable (supplied)



Quick Start (Japanese)

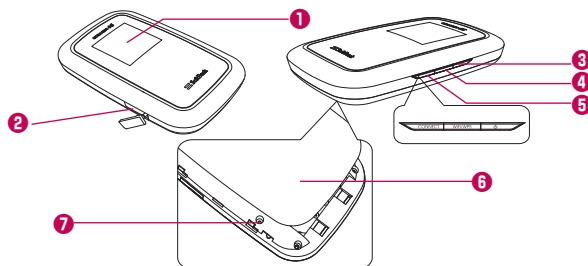


WLAN default setting sticker

Getting Started

Part Names & Functions

■ Contents and Descriptions



1 Display

- Mobile Router status appears. See "Display" (P.1-4).

2 External Device Port

- Connect supplied USB Cable.

3 Power Key

- Press for two seconds to toggle power On/Off. Power On to enable WLAN and connect to Internet automatically.

4 Wi-Fi/WPS Key

- Press for two seconds to toggle enable/disable Wi-Fi.
- Press for five seconds after Wi-Fi is already activated, WPS (Wi-Fi Protected Setup) activates. Easily set WLAN connections for WPS equipped WLAN terminals in use. See "Connecting WPS Supported Wi-Fi Devices" (P.2-7).

5 CONNECT Key

- Press for about 5 seconds In Normal Mode then release to shift to Bridge Mode. To return to Normal Mode, power Off/On then reactivate.
- If disconnected from 4G/3G network, press CONNECT Key for two seconds to reconnect to the network.

* For details about Bridge Mode, see "Bridge Mode" (P.1-6).

6 Battery Cover

7 Reset Key

- If you press more than 10 seconds, settings return to default.

Getting Started

Display



No.	Item	Description
1	Signal Strength	Signal Strength of 3G or 4G network No Service Weak Strong
2	WLAN Status	Status of WLAN operation WLAN is On WLAN is Off (no icon)
3	Available service	MAIN AREA SoftBank Data Transfers service is available
4	WPS Status	Status of WPS function WPS WPS is enabled
5	Network Status	Status of available network 3G ULTRA SPEED area is available* 4G SoftBank 4G area is available*
6	Battery Strength	Status of Battery strength High Low Charging Fully charged
7	Status Notifications	Status Notifications in text
8	Number of WLAN clients	Number of devices connected to WLAN (10 clients maximum in Normal Mode) 0 No client 2 two clients
9	Bridge Mode Status	Connection Mode Bridge Mode Normal Mode (no icon)

* See SOFTBANK MOBILE Corp. Website.

Status Notifications

Display	Status
USIM未挿入です No USIM Card	USIM Card is not inserted
無効なUSIM Invalid USIM	Inserted USIM is invalid
PINコード入力 Enter PIN Code	Waiting for PIN entry
PUKコード入力 Enter PUK Code	Waiting for PUK entry
PUKロック USIM PUK Lock USIM	PUK is completely locked
接続中 Connecting	Connecting to 3G or 4G network
接続失敗 Connection Failed	Failed to connect to 3G or 4G network
接続 Connected	Connected to 3G or 4G network

Getting Started

Display	Status
WPS実行中 WPS Processing	WPS is processing
WPS失敗 WPS Failed	WPS has failed
WPS成功 WPS Succeed	WPS has succeeded
充電中 Battery Charging	Battery is charging
充電完了 Battery Full	Battery is full
電池残量不足 Low Battery	Battery is low Immediately charge battery
電池残量なし Battery Empty	Battery is empty
アップデート Updating Software	Software is updating
アップデート完了 Update Complete	Software update completed

Display	Status
アップデート失敗 Update Failed	Software update has failed
Bridge Mode ON...	Switching from Normal Mode to Bridge Mode
モデム更新失敗 再トライしてください Modem Upgrade failed. Try again	Modem upgrade has failed. Try upgrade again
工場出荷時のデフォルト Factory Default	Resetting to factory default settings in progress
デフォルト完了 Factory Default Complete	Resetting to factory default settings completed
USB Mode	USB Mode is functioning
USB Mode ON...	USB Mode is switching On
USB Mode OFF...	USB Mode is Off

Getting Started

Bridge Mode

Overview

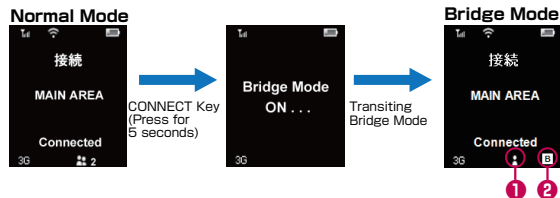
Switch functions from Normal Mode to Bridge Mode to enable faster Internet connections.

Operating Specifications

Transition to Bridge Mode

In Normal Mode shift to Bridge Mode by pressing CONNECT Key for about five seconds when connected to 4G/3G network. Functions are temporarily disabled during transition to Bridge Mode, then they are enabled again.

Mobile Router's Display shows the following during transition to Bridge Mode.



No.	Item	Description
1	WLAN connection Status	Icon appears when WLAN terminal is connected.
2	Bridge Mode Status	Icon appears in Bridge Mode.

Returning from Bridge Mode

Power Mobile Router Off/On by pressing Power Key to return to Normal Mode from Bridge Mode.

4G/3G connection is disconnected in Bridge Mode

If 4G/3G network becomes disconnected in Bridge Mode, press CONNECT Key for two seconds to enable the network connection again.

WLAN function is disabled while the network is disconnected, but after the network is connected to, WLAN function is automatically enabled.

Bridge Mode Restrictions

- Only one WLAN terminal can be connected. When connecting another terminal besides an already connected WLAN terminal, power Off/On to deactivate Bridge Mode once, then shift to Bridge Mode again.
- Only SSID connection is available. Multi-SSID is unavailable.
- Web UI is unavailable.
- All other filter functions except for MAC address filter are disabled. Although MAC address filter is enabled, since Web UI cannot be used in Bridge Mode, filter settings need to be set in Normal Mode. See, "Filtering Setting" on P.5-9.
- If 4G/3G network connection gets disconnected during WLAN connection, WLAN function is disabled and connection is disconnected. When network connection is restored, WLAN is automatically enabled. Reconnect WLAN connection.

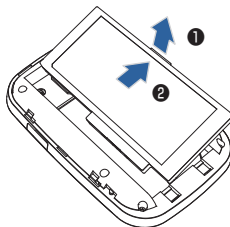
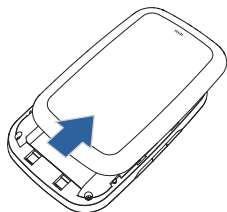
Getting Started

USIM Card

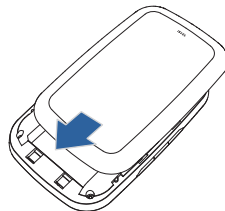
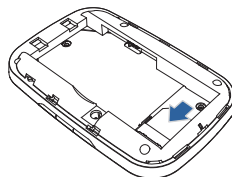
USIM Card is the property of SoftBank Mobile. IC chip contains customer information including phone number. Install USIM Card beforehand. USIM Card required for data transfers. See USIM Card user guide (Japanese).

■ Installing USIM Card

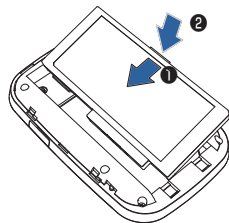
- 1 If Mobile Router is On, power Off by pressing Power Key for two seconds. Remove USB Cable if it is connected
- 2 Slide Battery Cover in the direction of the arrow to remove it
- 3 When Battery is installed, lift Battery in the direction of ①, and move it in the direction of ② to remove it



- 4 Insert USIM Card into Card slot with IC chip down
- 5 Confirm USIM Card installation
- 7 Replace Cover with IC chip down



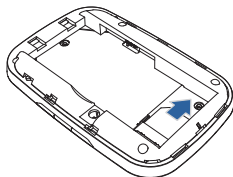
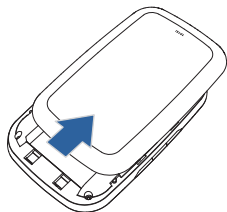
- 6 With label up, ① slide forward, ② press down to insert



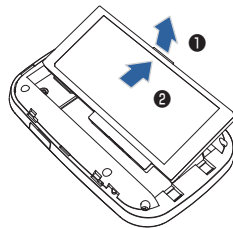
Getting Started

■ Removing USIM Card

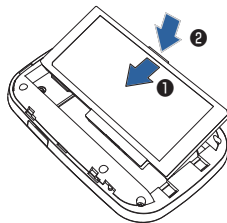
- 1 If Mobile Router is On, power Off by pressing Power Key for two seconds. Remove USB Cable if it is connected
- 2 Slide Battery Cover in the direction of the arrow to remove it
- 4 Slide USIM Card out and remove it from Card Slot



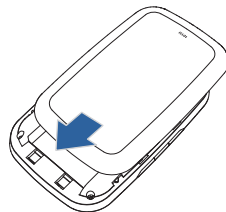
- 3 When Battery is installed, lift Battery in the direction of 1, and move it in the direction of 2 to remove it



- 5 With label up, 1 slide forward, 2 press down to insert



6 Replace Cover



- Avoid touching IC chip; may cause damage.
Forcibly inserting/removing USIM Card may damage it.
- Be careful not to lose removed USIM Card.
- Prevent children from accidentally swallowing USIM Card.

Getting Started

Battery

Mobile Router uses a Li-ion polymer Battery with 2,190 mAh.

■ Inserting Battery

Insert Battery before use. For Battery installation steps, see "Installing USIM Card" (P.1-7).

► Make sure you power Off when removing Battery. Failure to do so may result in the device not working properly and other damage.

■ Charging Battery

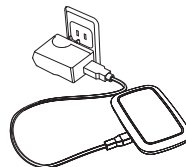
Battery is not shipped fully charged. Charge Battery fully before using Mobile Router.

CAUTION

Mobile Router unit gets hot during charging.
To avert risks, do not charge under high-temperature conditions such as under kotatsus or near heaters, inside of bags or bundled in fabric, etc. Charge in well-ventilated areas.

Charging via AC Adapter

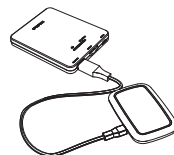
- 1 Insert USB Cable into Mobile Router's External Device Port
- 2 Insert USB plug into AC Adapter
- 3 Plug AC Adapter into AC outlet



Charging via Mobile Battery

- 1 Insert USB Cable into Mobile Router's External Device Port
- 2 Connect USB plug to Mobile Battery

* Use supplied USB Cable to charge.

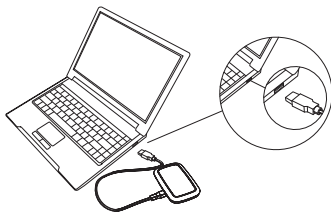


Getting Started

Charging by PC via USB Cable

- 1 Insert USB Cable into Mobile Router's External Device Port
- 2 Insert USB plug into PC USB port

Connecting Mobile Router to PC for the first time activates Utility Software and driver installer automatically. See P.3-2-P.3-5.



► Change USB connection mode to Charge mode via Web UI system setting for charging when connected to PC. See "System Setting" P.5-16.

Battery Strength

Battery Strength indicator appears at top of Display.
See "Display" (P.1-4).

Charging Precautions

Take note of the following details when charging Battery.

- Install Battery before charging.
- Use the designated AC Adapter, Mobile Battery or USB Cable.
- Battery discharges even if Mobile Router is not in use. Recharge Mobile Router even if unused for a long period of time.
- Charging Time Estimates

Charging method	Charging times
Charging via AC Adapter	About 3 hours
Charging via Mobile Battery	About 3 hours
Charging by PC via USB Cable	About 5.5 hours

* Mobile Router power is Off. The time it takes to fully charge may vary depending on ambient temperatures and duration of Battery use.

- Operating time estimates

Use conditions		4G connection	3G connection
Standby	Not using Mobile Battery	About 10 hours	
	Using Mobile Battery	About 29 hours	About 30 hours
Continuous communications	Not using Mobile Battery	About 3 hours	About 3.5 hours
	Using Mobile Battery	About 8.5 hours	About 9 hours

* Standby and continuous communications operating time may vary depending on usage environment and signal conditions.

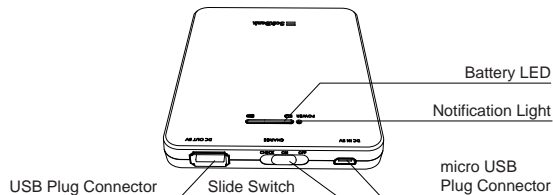
- Battery operating times are shortened by repeated charging/discharging. When operating time is short even if Battery is charged via proper procedures, replace with a stipulated new Battery.

Getting Started

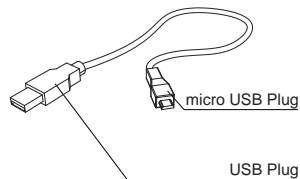
Mobile Battery

■ Part Names

<Mobile Battery>

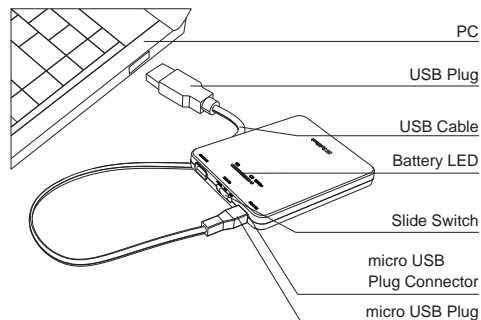


<USB Cable>



■ Charging Method

<Charging Mobile Battery>



① Connect USB Cable into micro USB plug connector of Mobile Battery

② Connect USB plug into AC Adapter or USB port of a running PC. Notification Light goes on, and charging begins

- See "Reading Notification Light" (P.1-13).
- Charging time (from empty Battery to full charge): about 7.5 hours (using AC Adapter)
- Do not charge Mobile Battery for long periods of time (more than one day).
- Regardless of Slide Switch On/Off, initiate charging by feeding power via USB Cable to Mobile Battery.

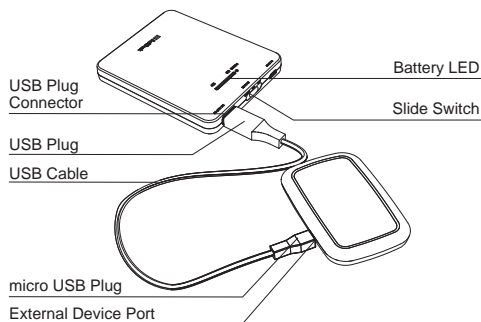
Getting Started

3 Notification Light turns green when charging completed

- When charging, do not connect other devices to other USB ports of PC.
- Do not use a USB hub to charge.
- Do not use other USB Cables except for the supplied one to charge Mobile Battery.
- Do not charge Battery with unspecified procedures.

<Charging Mobile Router>

- Use supplied USB Cable for Mobile Battery or USB Cables which are specified in this manual.
- Confirm that Battery is installed in Mobile Router.
- Before charging Mobile Router, check remaining charge in Mobile Battery.
 - * If Mobile Battery is not completely charged, then Mobile Router might not be fully charged.



1 Connect micro USB plug of USB Cable to Mobile Router's External Device Port

2 Connect USB plug of USB Cable to Mobile Battery's USB plug connector

3 Shift Slide Switch to On, Battery LED lights up (Reading Battery LED, P.1-13), then Mobile Router starts to charge. Battery LED goes out after two - three seconds, but charging continues

- If Battery LED does not light on, Mobile Battery is depleted. Charge Mobile Battery.




4 After charging is completed, unplug USB Cable

- See P.1-4 regarding Mobile Router charging indications.
- After charging has completed, promptly unplug USB Cable.
- If Mobile Battery has remaining charge, Mobile Router can be charged again.

Getting Started






■ Using Slide Switch

Use to toggle Mobile Battery power On/Off. Use to also check Mobile Battery strength.

Slide Switch Position	Status	Function
	Power OFF	<ul style="list-style-type: none">• Power Off
	Power ON	<ul style="list-style-type: none">• Power On• When Mobile Battery and Mobile Router are connected by USB Cable, Mobile Router starts charging. However, if Mobile Battery is being charged, Mobile Router cannot be charged.
	Mobile Battery Strength indicator	<ul style="list-style-type: none">• Shift Slide Switch for more than one second towards CHECK, and Battery LED lights up. Release it and Battery LED goes out after about two or three seconds.

■ Reading Battery LED

Shift Slide Switch for more than one second towards CHECK, and Battery LED lights up. Release it and return it to On, and Battery LED goes out after lighting up for about two or three seconds. Battery LED indicates Mobile Battery strength as per the following (varies according to usage environments).

Indicator status (level)	Mobile Battery strength level (while charging Mobile Router*)
	More than 95%
	More than 75% and less than 95%
	More than 40% and less than 75%
	More than 15% and less than 40%
	Less than 15%

* Mobile Battery LED indicator status varies depending on the Battery strength level of Mobile Router.

■ Reading Notification Light

Indication of Notification Light	Color	Status
Lit	Red	Mobile Battery is charging
	Green	Mobile Battery charging complete
	Blue	Mobile Router is charging
Not lit	-	Power Off, or not charging

* Even if PC or AC Adapter and Mobile Battery are connected, Notification Light might not light up, indicating charging might not have been accomplished.

Getting Started

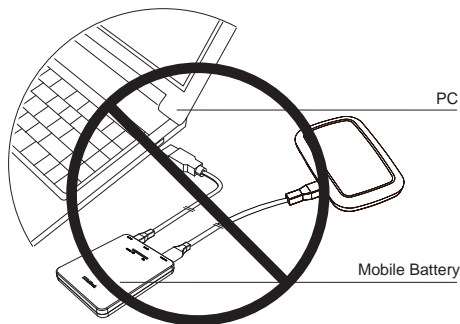
■ Correct Usage of Mobile Battery

- Put Battery into Mobile Router when charging Battery.
- Battery can be charged while Mobile Router is powered On, but charging takes longer.
- Do not overcharge (more than one day) Mobile Battery.
- Mobile Battery unit gets hot during charging.
To avert risks, do not charge under high-temperature conditions such as under kotatus or near heaters or in bags or bundled in fabric, etc. Charge in well-ventilated areas.
- Store Battery in a well-ventilated cool place not exposed to direct sunlight.
- Care for Battery by wiping it with a dry soft cloth (such as an eyeglass cleaning cloth). Wiping Battery with a wet cloth may cause it to malfunction. In addition, wiping Battery with alcohol, thinners, benzene, and cleansers, etc. may cause the printing to come off, and discoloration.
- If using Mobile Battery, it takes somewhat longer to charge Mobile Router in comparison to normal charging.
- Mobile Battery is a consumable product.
This differs according to usage conditions, but it is time to replace Mobile Battery when usage times become considerably shorter, even though Battery is fully charged. Purchase a new Mobile Battery.
- Charge Mobile Battery before using it initially, or after it has not been used for a long time. In these cases, charge Mobile Battery with Mobile Router unconnected.

- Avoid storing Mobile Battery under the following conditions.
 - Storing it fully charged (right after being completely charged).
 - Storing it fully depleted (used up to the point where it does not power on Mobile Router).

This might diminish Mobile Battery's performance and life span. It is best to store Mobile Battery when its Battery LED is level 3.

- When radios or televisions produce static, distance and use Mobile Battery as far away from radios and televisions, etc., as possible.
- Cautions pertaining to connecting Mobile Battery to Mobile Router.
 - Even if Mobile Router is connected to a PC via Mobile Battery, data transfers cannot be performed via USB mode.
 - Mobile Router cannot be charged while Mobile Battery is charging.
 - Do not connect Mobile Battery as per the following illustration.



2

Using Wi-Fi (WLAN)

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Connecting WPS	
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Connecting Mac	2-10

Using Wi-Fi (WLAN)

WLAN

Mobile Router supports IEEE 802.11b/g/n standards. Connect WLAN devices (PC, game console, etc.) via Mobile Router for wireless data transfers. Mobile Router supports Wi-Fi Protected Setup (WPS), which easily configures WLAN connection settings on any WPS compliant WLAN device. Enter Mobile Router's SSID and WEP keys to connect non-WPS compliant WLAN devices. See WLAN default setting sticker for SSID and WEP keys. This section describes the first connection of Nintendo DS series*, PSP (Playstation Portable), Wii, PS3 (PlayStation3), WPS compatible devices, Windows PC and Mac to Mobile Router.

* Nintendo DS series is a generic name for Nintendo 3DS/DSi LL/DSi/DS Lite/DS.

- ▶ These settings should be performed the first time Mobile Router is connected to another WLAN device. Thereafter, simply activate WLAN function to automatically connect Mobile Router to a WLAN device (WAN Connection Mode set to Always On).
- ▶ Change WLAN settings as required. See Chapter 5 "General Settings Using Web UI".
- ▶ To ensure security, it is recommended that network name (SSID) and encryption key (WEP) which were set at time of purchase be changed.
- ▶ Use Mobile Router to connect up to ten WLAN devices simultaneously.

Connecting WLAN Supported Devices

■ Connecting Nintendo DS

This section describes about Nintendo Wi-Fi connection compatible software use with Nintendo DS series.

* Connection verification for 3DS/DS Lite/DS is completed.

The contained connection procedures are independently verified and created.

Do not inquire to Nintendo Co., Ltd. in regards to what is described here.

- ▶ If encryption methods for WLAN security settings are set to something else other than WEP, set them to WEP. However when security settings (P.5-6) are changed, be aware that already connected WLAN terminals can no longer be connected.
- ▶ Confirm Mobile Router is connected to Internet. Internet connection is required to establish Wi-Fi connections.

All screenshots and operations based on Nintendo DS Lite.

1 Press Power Key of Mobile Router for more than two seconds

WLAN function turns on and connect to Internet.

2 On Nintendo DS, activate Nintendo Wi-Fi Connection, then *Wi-Fi*コネクション設定

Wi-Fi appears.

- For Nintendo DSi, from menu, touch **本体設定** and then **インターネット**
- For Nintendo 3DS, from HOME menu, touch **本体設定** and then **インターネット設定**
- For operating method, refer to each software manual.

Using Wi-Fi (WLAN)

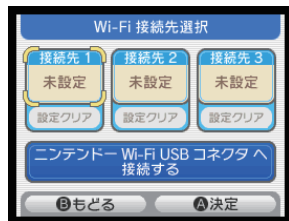
3 Touch Wi-Fi 接続先設定

- Nintendo DSi: 接続設定
- Nintendo 3DS: インターネット接続設定



4 Touch 未設定

- Nintendo 3DS: 接続先の登録 → 自分で設定する

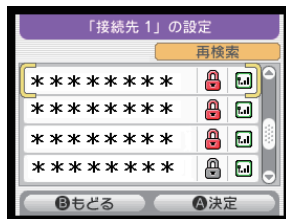


5 Touch アクセスポイントを検索



6 Select Mobile Router SSID (*****)

- See WLAN default setting sticker for Mobile Router SSID
- If default SSID has been changed: Select current SSID



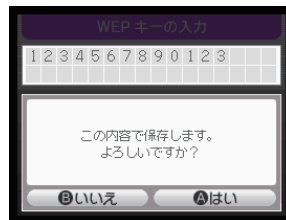
7 Enter WEP key → 決定

- See WLAN default setting sticker for WEP



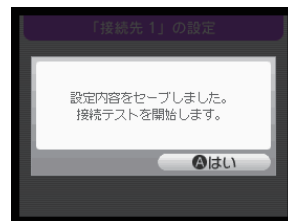
8 Touch はい

- Nintendo 3DS: OK



9 Touch はい

- Nintendo 3DS: OK



Connection test starts.
Devices connect and 接続に成功しました appears.

Connected WLAN client count on Display increases by one.
e.g.) 0 → 1

Using Wi-Fi (WLAN)

■ Connecting PSP

Below operations are based on PSP-2000/PSP-3000, with WLAN security set to WEP. Operations may vary for PSP-1000* or when security is not set to WEP. See PSP User's Guide.

- * Some procedures may vary for PSP-1000 system software earlier than version 1.52.
- * The contained connection procedures are independently verified and created. Do not inquire to Sony Computer Entertainment Inc. in regards to what is described here.

1 Press Power Key of Mobile Router for more than two seconds

WLAN function activates and connects to Internet.

2 PSP: Slide WLAN Switch to On

3 In PSP Home menu select **Settings** → **Network Settings** → ○

4 Select **Infrastructure Mode** → ○

5 Select **New Connection** → ○

- PSP-1000: Enter connection name → ▷

6 Select **Scan** → ▷

7 Select **Mobile Router SSID (*****)** → ○

- See WLAN default setting sticker for Mobile Router SSID.
- If default SSID has been changed: Select current SSID → ○

8 Confirm SSID → ▷

9 Select **WEP** → ▷

10 Press ○ → Enter WEP key → ▷

- See WLAN default setting sticker for WEP.

11 Select **Easy** → ▷

12 Confirm name → ▷

- PSP-1000: Skip ahead to 13.

13 Confirm settings → ▷

14 Press ○

15 Press ○

16 Connection test starts

When complete, test results appear.

Connected WLAN client count on Display increases by one.

e.g.)  0 →  1

Using Wi-Fi (WLAN)

■ Connecting Wii

Below operations are based on WEP. Operations may vary when security is not set to WEP.

See Wii User's Guide.

* The contained connection procedures are independently verified and created.

Do not inquire to Nintendo Co., Ltd. in regards to what is described here.

1 Press Power Key of Mobile Router for more than two seconds

WLAN function activates and connects to Internet.

2 In Wii menu, select **Wii**

3 Select **Wii** 本体設定

4 Select ▸

"Wii 本体設定2" appears.

5 Select インターネット

6 Select 接続設定

7 Select 未設定

8 Select **Wi-Fi** 接続

9 Select アクセスポイントを検索

10 Select **OK**

11 Select Mobile Router SSID (*****)

- See WLAN default setting sticker for Mobile Router SSID.
- If default SSID has been changed: Select current SSID.

12 Enter WEP key → **OK**

- See WLAN default setting sticker for WEP.

13 Select **OK**

14 Select **OK**

Connection test starts. When complete, 接続テストに成功しました appears.

Connected WLAN client count on Display increases by one.

e.g.)  0 →  1

Using Wi-Fi (WLAN)

■ Connecting PS3

Below operations are based on WEP. Operations may vary when security is not set to WEP. See PS3 User's Guide.

- * The contained connection procedures are independently verified and created. Do not inquire to Sony Computer Entertainment Inc. in regards to what is described here.

1 Press Power Key of Mobile Router for more than two seconds

WLAN function activates and connects to Internet.

2 In PS3 Home menu, select **Settings** → **Network Settings** → **Internet Connection Settings**

3 Select **Yes** → ○

4 Select **Easy** → ▷

5 Select **Wireless** → ▷

6 Select **Scan** → ▷

7 Select **Mobile Router SSID** (******) → ○

- See WLAN default setting sticker for Mobile Router SSID
- If default SSID has been changed: Select current SSID

8 Confirm SSID → ▷

9 Select **WEP** → ▷

10 Press ○ → Enter **WEP** key → ▷

- See WLAN default setting sticker for WEP.

11 Confirm settings → ○

Settings are saved.

12 Press ○

The connection test starts. When complete, test results appear.

Connected Wi-Fi device count on Display increases by one.

e.g.)  0 →  1

Using Wi-Fi (WLAN)

■ Connecting WPS Supported Wi-Fi Devices

1 Press Power Key of Mobile Router for more than two seconds

WLAN function activates and connects to Internet.

2 Turn on WLAN functions → Prepare for WPS

3 Press WiFi/WPS Key of Mobile Router for about five seconds

"WPS Proceeding" appears on Display.

4 Connect Wi-Fi devices via WPS

When complete, "WPS Success" appears.

- Operations vary depending on Wi-Fi devices.

5 If other settings are required with Wi-Fi devices, follow the onscreen instructions

Connected WLAN client count on Display increases by one.

e.g.)  0 →  1

Connecting Windows

All screenshots and procedures based on WEP.

■ Windows 7

1 Press Power Key of Mobile Router for more than two seconds

WLAN function activates and connects to Internet.

2 Turn on PC WLAN function

3 In Start menu, click Control Panel → Network and Internet → Network and Sharing Center

4 Click Connect to a network

5 Click SSID (****) → Connect**

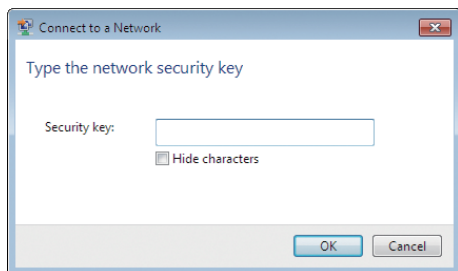
- See WLAN default setting sticker for Mobile Router SSID
- If default SSID has been changed:
Select current SSID



Using Wi-Fi (WLAN)

6 Enter Security key in Security key field, and click **OK**

- See WLAN default setting sticker for security key.



Connected WLAN client count on Display increases by one.

e.g.)  0 →  1

Windows Vista

1 Press Power Key of Mobile Router for more than two seconds

WLAN function activates and connects to Internet.

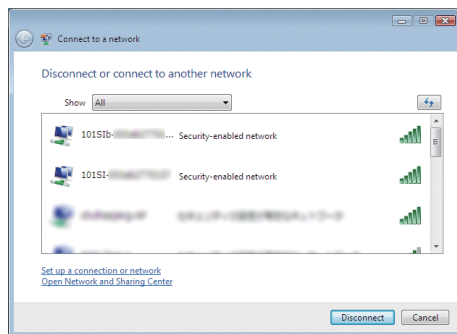
2 Turn on PC WLAN function

3 In **Start** menu, click **Control Panel** → **Network and Internet** → **Network and Sharing Center**

4 Click **Connect to a network**

5 Click Mobile Router SSID (******) → **Connect**

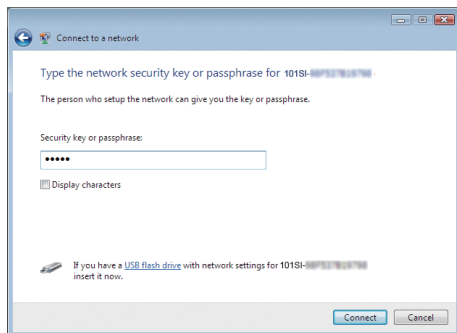
- See WLAN default setting sticker for Mobile Router SSID
- If default SSID has been changed: Select current SSID



Using Wi-Fi (WLAN)

6 Enter Security key in Security key or passphrase field, and click **Connect**

- See WLAN default setting sticker for security key.



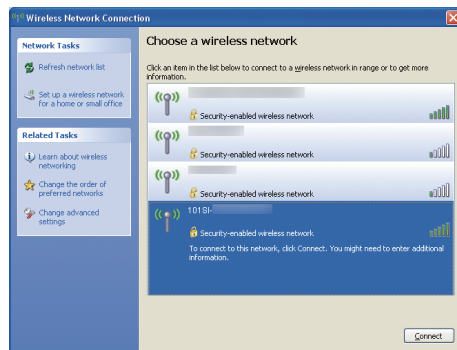
7 Click **Close**

Connected WLAN client count on Display increases by one.

e.g.) 0 → 1

■ Windows XP

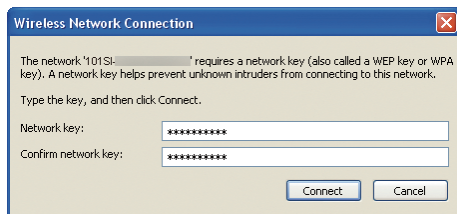
- 1 Press **Power Key of Mobile Router** for more than two seconds
WLAN function activates and connects to Internet.
- 2 Turn on PC WLAN function
- 3 In **Start** menu, click **Control Panel** → **Network and Internet** → **Network and Sharing Center**
- 4 Click **Wireless network connection** → **Network task** → **Display usable wireless network**
- 5 Click **Mobile Router SSID (*****)** → **Connect**
 - See WLAN default setting sticker for Mobile Router SSID
 - If default SSID has been changed: Select current SSID



Using Wi-Fi (WLAN)

6 In Network key, confirm Network key field, enter Security key → **Connect**

- See WLAN default setting sticker for security key.

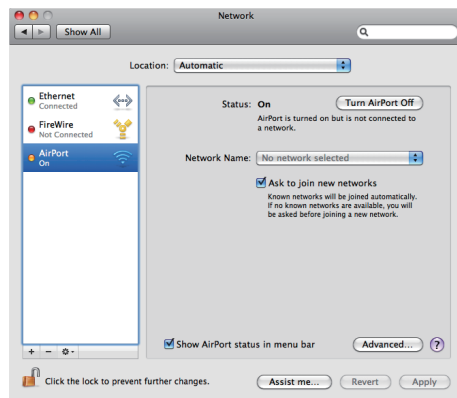


Connected WLAN client count on Display increases by one.
e.g.) 0 → 1

Connecting Mac

Screenshots/operations are based on WEP, Mac OS X 10.6.

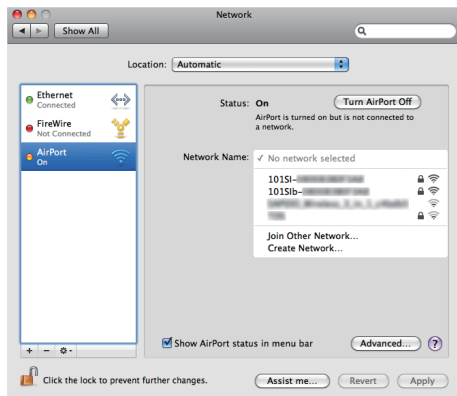
- 1 **Press Power Key of Mobile Router for more than two seconds**
WLAN function activates and connects to Internet.
- 2 **From Apple menu, click *System Preferences* → *Network***
- 3 **Click *AirPort* → *Turn AirPort On* to turn WLAN function on**



Using Wi-Fi (WLAN)

4 From Network Name pulldown list, select Mobile Router SSID (*****)

- See WLAN default setting sticker for Mobile Router SSID
- If default SSID has been changed: Select current SSID



5 Enter security key in Password field → **Remember this network** → OK

- See WLAN default setting sticker for security key.



6 Confirm Network Name is set to SSID (*****)

Connected WLAN client count on Display increases by one.

e.g.)  0 →  1

3

Using USB Cable (Windows PC)

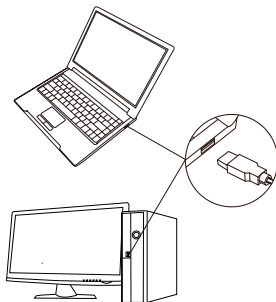
Device Recognition (Windows)	3-2
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Installation of Windows Vista Utility Software	3-4
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Manual Installation of Windows XP Utility Software	3-7
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Using USB Cable (Windows PC)

Device Recognition (Windows)

- 1 Insert micro USB plug of USB Cable into Mobile Router (USIM Card installed) External Device Port
- 2 Insert USB plug of USB Cable into PC USB Port
- 3 Press Power Key of Mobile Router for more than two seconds

PC should recognize Mobile Router within a few seconds.



Install driver for initial activation. See "Installing Utility Software". (P.3-2)

► Mobile Router may fail if PC enters sleep mode, etc. with it connected. Remove Mobile Router before leaving a PC unattended, etc. Mobile Router may malfunction if connected before PC starts/restarts. Remove Mobile Router before starting or restarting PC.

Installing Utility Software

In Mobile Router, Router driver and Utility Software are saved in advance. For initial activation, they are installed automatically.

- Do not remove Mobile Router during installation. May cause installation failure, system malfunction or other system errors.
- Login using administrator privileges.

■ Installation of Windows 7 Utility Software

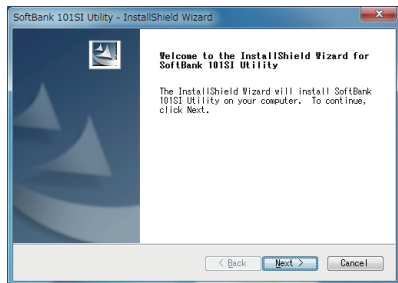
- 1 Power on PC
- 2 Connect Mobile Router to PC via USB Cable
- 3 Installer activates a few seconds after connection

- Installation will fail if Utility Software has already been installed in PC. Check existing installation.
- If installer does not activate automatically, see (P.3-6).

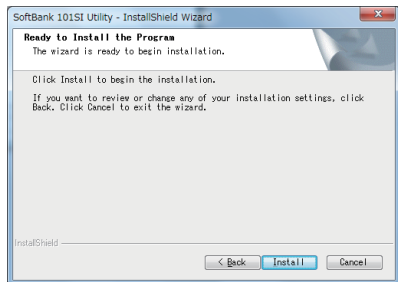
- 4 In AutoPlay, click **Launcher.exe**
- 5 If User Account Control appears, click **Yes**
- 6 **Choose Setup Language** appears. Select **English** → **OK**

Using USB Cable (Windows PC)

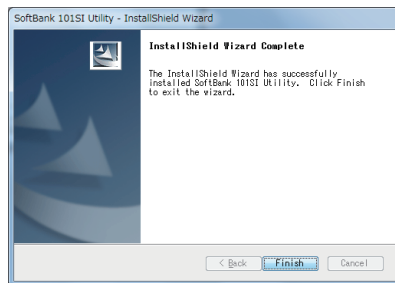
- 7 Welcome to the Install Shield Wizard for "SoftBank 101SI Utility" dialog box appears. Click **Next**



- 8 "Ready to Install the Program" dialog box appears. Click **Install**



- 9 When below dialog box appears, click **Finish**



- 10 Installation is successful if **Softbank 101SI Utility** is listed in **Start Menu → All Programs**

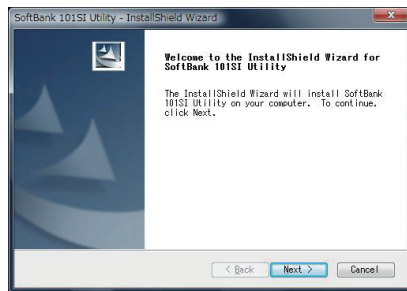
Using USB Cable (Windows PC)

■ Installation of Windows Vista Utility Software

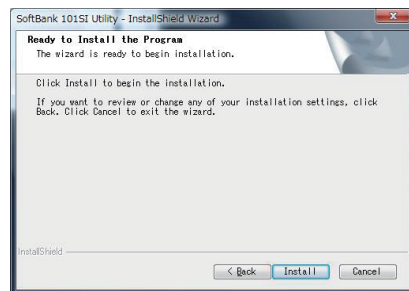
- 1 Power on PC
- 2 Connect Mobile Router to PC via USB Cable
- 3 Installer activates a few seconds after connection

- ▶ Installation will fail if Utility Software has already been installed in PC. Check existing installation.
- ▶ If installer does not activate automatically, see (P.3-6).

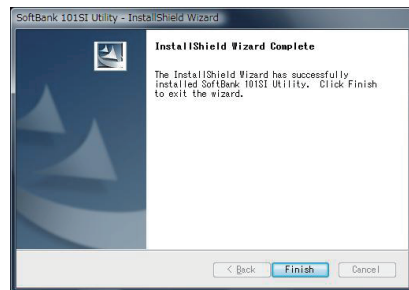
- 4 In AutoPlay, click **Launcher.exe**
- 5 If User Account Control appears, click **Continue**
- 6 "Choose Setup Language" appears. Select **English** → **OK**
- 7 Welcome to the Install Shield Wizard for "SoftBank 101SI Utility"
dialog box appears. Click **Next**



- 8 "Ready to Install the Program" dialog box appears. Click **Install**



- 9 When below dialog box appears, click **Finish**



- 10 Installation is successful if **Softbank 101SI Utility** is listed in **Start Menu** → **All Programs**

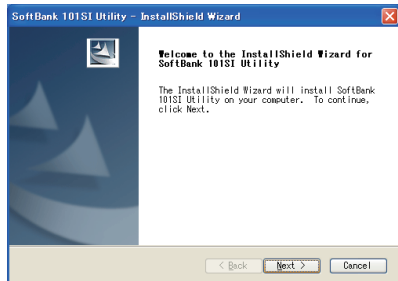
Using USB Cable (Windows PC)

■ Installation of Windows XP Utility Software

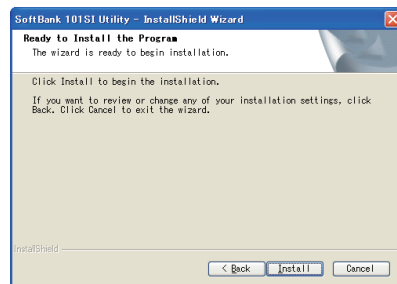
- 1 Power on PC
- 2 Connect Mobile Router to PC via USB Cable
- 3 Installer activates a few seconds after connection

- ▶ Installation will fail if Utility Software has already been installed in PC. Check existing installation.
- ▶ If installer does not activate automatically, see (P.3-7)

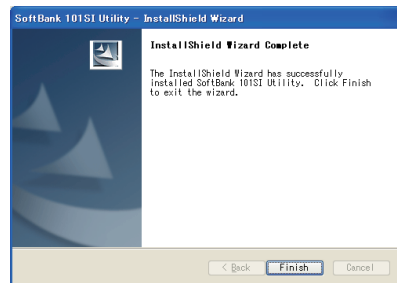
- 4 "Choose Setup Language" appears. Select **English** → **OK**
- 5 Welcome to the Install Shield Wizard for "SoftBank 101SI Utility" dialog box appears. Click **Next**



- 6 "Ready to Install the Program" dialog box appears. Click **Install**



- 7 When below dialog box appears, click **Finish**



- 8 Installation is successful if **Softbank 101SI Utility** is listed in **Start Menu** → **All Programs**

Using USB Cable (Windows PC)

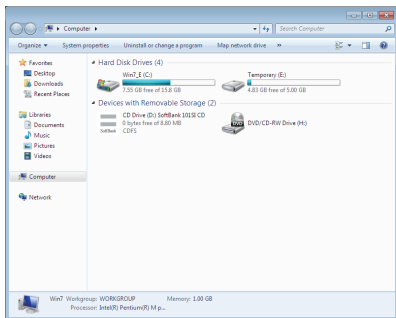
■ Manual Installation of Windows 7 Utility Software

If installer fails to start automatically, follow these steps:

- * Always power on PC before connecting Mobile Router to PC via USB Cable.

1 In **Start** menu, click **Computer**

2 Double-click **SoftBank 101SI**



3 If User Account Control appears, click **Yes**

4 "Choose Setup Language" appears. See "Installation of Windows 7 Utility Software" (P.3-2) after 6

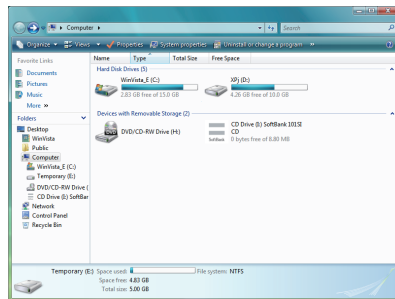
■ Manual Installation of Windows Vista Utility Software

If installer fails to start automatically, follow these steps:

- * Always power on PC before connecting Mobile Router to PC via USB Cable.

1 In **Start** menu, click **Computer**

2 Double-click **SoftBank 101SI**



3 If User Account Control appears, click **Yes**

4 "Choose Setup Language" appears. See "Installation of Windows Vista Utility Software" (P.3-4) after 6

Using USB Cable (Windows PC)

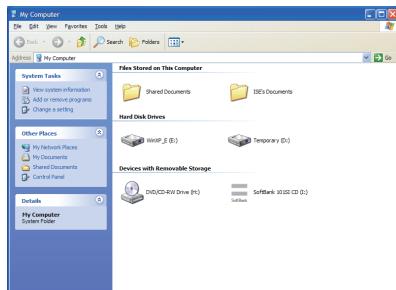
■ Manual Installation of Windows XP Utility Software

If installer fails to start automatically, follow these steps:

* Always power on PC before connecting Mobile Router to PC via USB Cable.

① In **Start** menu, click **Computer**

② Double-click **SoftBank 101SI**



③ "Choose Setup Language" appears. See "Installation of Windows XP Utility Software" (P.3-5) after ⑤

Uninstalling Utility Software

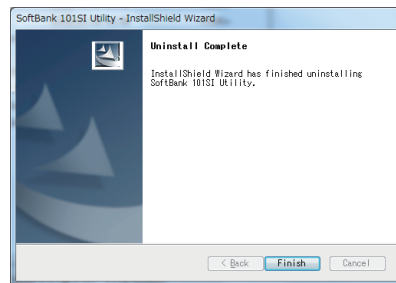
① Select **Start** → **All Programs** → **SoftBank 101SI Utility** → **Uninstall 101SI PC Utility**

② User Account Control appears. Click **Yes**

- For Windows Vista, click **Continue**
- For Windows XP, screen does not appear

③ **Do you want to completely remove the selected application and all of its features?** confirmation appears. Click **Yes**

④ Upon uninstallation, below dialog box appears. Click **Finish**



▶ If Mobile Router is not removed from PC, "Another instance of this setup is already running. Wait for the other instance to finish and then try again." dialog box appears and uninstallation is unavailable. Remove it first and uninstall again.
If Mobile Router is removed from PC, shut down Utility Software, and disconnect USB Cable.

4

Using USB Cable (Mac)

Device Recognition (Mac)

4-2

Installing Utility Software

4-2

Installation of Utility Software

4-2

Uninstalling Utility Software

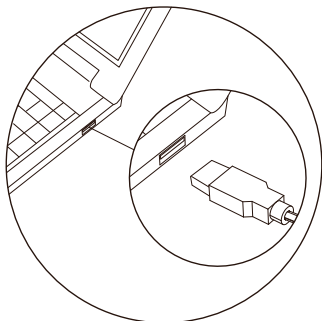
4-4

Using USB Cable (Mac)

Device Recognition (Mac)

- 1 Insert micro USB plug into Mobile Router (USIM Card installed) External Device Port
- 2 Insert USB plug of USB Cable into Mac USB Port
- 3 Press Power Key of Mobile Router for more than two seconds

Mac should recognize Mobile Router within a few seconds.



► Mobile Router may fail if Mac enters sleep mode, etc. with it connected. Remove Mobile Router before leaving a Mac unattended, etc. Mobile Router may malfunction if connected before Mac starts/restarts. Remove Mobile Router before starting or restarting Mac.

Installing Utility Software

■ Installation of Utility Software

Mobile Router driver and Utility Software are already saved. Installed programs run automatically on Macs. All screenshots and procedures based on Mac OS X 10.6.

► Do not remove Mobile Router during installation. It may cause installation failure, system malfunction or other system errors.

- 1 Power on Mac
- 2 Connect Mobile Router to Mac via USB Cable
- 3 Double-click *CD-ROM* when it appears on desktop

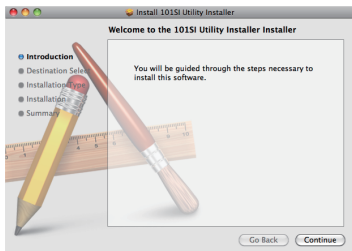


Using USB Cable (Mac)

- 4 Double-click **101SI Utility Installer.mpkg** to start installation

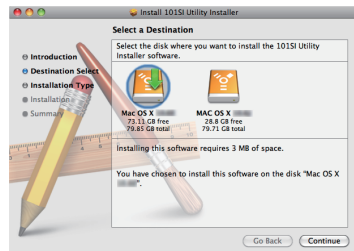


101SI Utility
Installer.mpkg

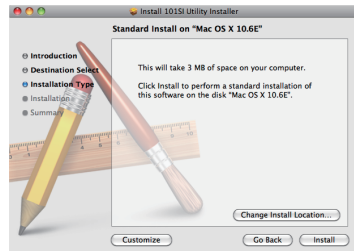


- ▶ When Utility Software is installed in Mac, uninstall it (P.4-4). Then install Utility Software.
- ▶ Make sure that only the latest Utility Software is installed before use.

- 5 "Select a Destination" dialog box appears. Select installation destination and click **Continue**



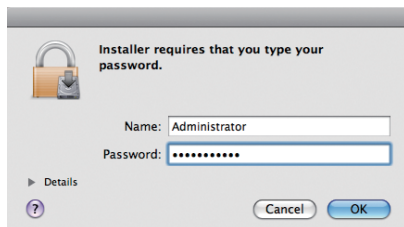
- 6 Standard Install on Mac HD dialog box appears. Click **Install**



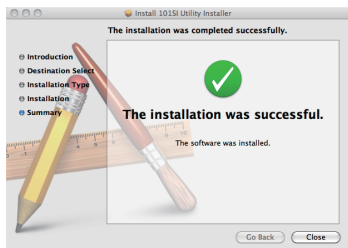
- ▶ "Macintosh HD" is hard disk name. Name shown varies depending on the user.

Using USB Cable (Mac)

- 7 Certification appears. Enter Name and Password and click **OK**



- 8 Installation starts
- 9 When dialog box is shown as below, click **Close**



- 10 Click  to open Finder. If **101SI Utility** appears in **Application**, installation finishes

Uninstalling Utility Software

- 1 Click  to open Finder
- 2 Select **101SI Utility** and Drag & Drop **101SI Utility** to **Trash**
- 3 Drag & Drop **SEIKO101SIRoot.kext** to **Trash**

File location is "/System/Library/Extensions/SEIKO101SIRoot.kext".

- 4 Restart Mac

► After starting Utility Software, "The item "101SI Utility" can't be moved to Trash because it's open.", dialog box appears, and uninstallation is unavailable. End Utility Software and implement again.

► Restart Mac if it does not function correctly.

5

Web UI Guide

Overview	5-2
Activating Web UI	5-2
Status Screen	5-3
Main Menu	5-3
Verification/Changing of Settings	5-4
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Wi-Fi	5-5
Firewall	5-9
Connection	5-12
System	5-15
Help	5-18

Overview

Web UI is a function to confirm and change Mobile Router's settings via wireless connection.

Besides Web UI, Utility Software functions to confirm and change Mobile Router's settings. For details on Utility Software, see Chapter 6 "Utility Software Guide".

In Bridge Mode, Web UI is not connectable. Set to Normal Mode and connect. To set to Normal Mode, power Off and restart Mobile Router. For Nintendo DS series, PSP and other game devices, Web UI may not be available for use.

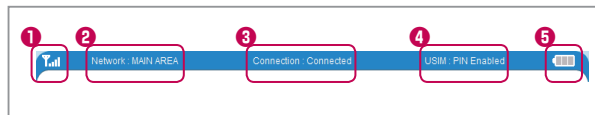
Activating Web UI

- 1 Power on PC
- 2 Connect Mobile Router via WLAN
- 3 Activate web browser
- 4 Enter URL (<http://192.168.1.1>)
- 5 Enter ID and Password to Login

The default ID is "user" and Password is "0000". To change them, see "System Setting" (P.5-16).

A screenshot of the 'Router LOGIN' web interface. At the top, there's a blue header bar. Below it, a white box contains the text 'Router LOGIN'. Underneath, there's a 'LOGIN' section with a small icon of a document with a checkmark. Below this, there are two input fields: 'ID' and 'Password'. The 'ID' field has a cursor in it. Below the input fields is a grey 'Input' button.

■ Status Screen



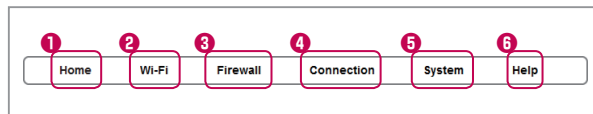
No.	Item	Description
1	Signal Strength	Signal Strength of 3G or 4G network
2	Available Service	MAIN AREA: SoftBank data transfers service is available.
3	Connection Status	Connection status (Standby, Connecting, Connected, etc.)
4	USIM Status	USIM status (No USIM Card, Invalid USIM, Enter PIN, PIN Enabled, etc.)
5	Battery Strength	Status of Battery strength

Signal Strength	
No service	
Very weak	
Weak	
Normal	
Strong	

Battery Strength	
0	
1	
2	
3	
Charging	
Fully charged	

■ Main Menu

Consists of 6 categories: Home, Wi-Fi, Firewall, Connection, System, Help.
Show Sub menus by moving mouse cursor over main menus.



No.	Item	Description
1	Home	Statuses of WAN, Wi-Fi, version, device etc.
2	Wi-Fi	WPS setting, Wi-Fi setting, Security setting, IP address/DHCP server
3	Firewall	Filtering, Port mapping, DMZ, UPnP
4	Connection	NETWORK (MAIN AREA), 4G/3G network, USIM
5	System	F/W upgrade, System setting, Language
6	Help	Website Information

Verification/Changing of Settings

■ Home

After login, view status for WAN, Wi-Fi, Version and Device information.

The screenshot shows the SoftBank Web UI Home page. At the top, there's a status bar with 'Network: MAN-AREA', 'Connection: Connected', and 'USB: PIN Enabled'. Below this is a navigation menu with 'Home', 'Wi-Fi', 'Firewall', 'Connection', 'System', and 'Help'. The main content area is titled 'System State Information' and is divided into four sections: WAN Status, Wi-Fi Status, Version, and Device Info.

WAN Status	
WAN IP Address	192.168.1.100
DNS Address	192.168.1.1
Phone Number	090-1234-5678
Received Data Packets	42,385 KB
Transmitted Data Packets	13,159 KB
Connection Time	00:01:30

Wi-Fi Status	
SSID	101SI-XXXXXXXXXX
Multi SSID	101SIb-XXXXXXXXXX
Number of Connected Wi-Fi Clients	1
Encryption for SSID	WPA2PSK
Encryption for Multi SSID	WEP

Version	
AP Firmware Version	0.0.0.0
Modem Firmware Version	0.0.0.0

Device Info.	
Local IP Address	192.168.1.1
Local Netmask	255.255.255.0
MAC Address	00:00:00:00:00:00
IMEI	0000000000000000

Item	Description	Option
WAN IP Address	Allocated IP address when connected to Internet.	-
DNS Address	Connect DNS address. Change in main menu Wi-Fi .	-
Phone Number	User's telephone number.	-
Received Data Packets	Reception (downloads) packet volumes.	-
Transmitted Data Packets	Transmission (uploads) packet volumes.	-
Connection Time	Connection times.	-
SSID	SSID. Change in main menu Wi-Fi .	-
Multi SSID	Multi-SSID. Change in main menu Wi-Fi .	-
Number of Connected Wi-Fi Clients	Number of devices connected to WLAN. In Normal Mode connect up to ten devices.	-
Encryption for SSID	SSID Encryption Mode. Change in main menu Wi-Fi .	-
Encryption for Multi SSID	Multi-SSID Encryption Mode. Change in main menu Wi-Fi .	-
AP Firmware Version	AP firmware version. Upgrade in main menu System .	-
Modem Firmware Version	Modem firmware version. Upgrade in main menu System .	-
Local IP Address	IP address when Web UI is connected. Change in main menu Wi-Fi .	-
Local Netmask	Subnet mask when Web UI is connected. Change in main menu Wi-Fi .	-
MAC Address	MAC address for Mobile Router.	-
IMEI	IMEI (International Mobile Equipment Identifier) for Mobile Router.	-

Web UI Guide

Wi-Fi

Set WPS, Wi-Fi, Security and IP address/DHCP server.

WPS Setting

Enable/Disable WPS and set connection method.

SoftBank

Network: MAIN AREA Connection: Connected USIM: PIN Enabled

Home Wi-Fi Firewall Connection System Help

WPS Setting

WPS Setting

WPS:

WPS Progress

WPS Mode:

AP PIN:

PIN:

WPS Status

WPS Status:

Item	Description	Option
WPS	Enable/Disable WPS.	Enable, Disable
WPS Mode	Select a WPS connection method.	PIN, PBC
AP PIN	Click Generate to generate PIN.	-
PIN	Set PIN generated in AP PIN.	-
WPS Status	WPS status.	-

Wi-Fi Setting

Set Wi-Fi settings.

SoftBank

Network: MAIN AREA Connection: Connected USIM: PIN Enabled

Home Wi-Fi Firewall Connection System Help

Wi-Fi Setting

SSID Setting

SSID: ☐ Hidden ☐ Isolated

Multi SSID: ☐ Hidden ☐ Isolated

Communication Standard Setting

Communication Standard:

Multi SSID Isolation Setting

Multi SSID Isolation: ☐ Enable ☒ Disable

Channel Setting

Frequency (Channel):

Physical Mode Setting

Operating Mode: ☒ Mixed Mode ☐ Green Field

Frequency Bandwidth: ☐ 20MHz ☒ 40MHz

Guard Interval: ☐ Long ☒ Auto

Item	Description	Option
SSID	Set network name.	Up to 32 characters. Support (0-9, A-Z, a-z, @, _ , .)
Multi SSID	Multi Network Name	Up to 32 characters. Support (0-9, A-Z, a-z, @, _ , .)
Hidden	Hide each SSID.	-
Isolated	Prevents wireless clients from communicating with each client.	-
Communication Standard	Select Operation Mode for WLAN.	Auto(b/g/n), 11b, 11g, 11n*
Multi SSID Isolation	Prevents wireless clients from communicating with each SSID.	Enable, Disable
Frequency (Channel)	Specify frequency to select.	Auto, Channel (1 - 11)
Operating Mode	Set Operating Mode.	Mixed Mode, Green field
Frequency Bandwidth	Set Bandwidth.	20MHz, 20MHz/40MHz
Guard Interval	Set Guard Interval.	Long, Auto

* If encryption code security protocols are WEP or WPA (TKIP), 11n setting cannot be set.

See "Security Setting" (P.5-6) to change Encryption Mode.

Security Setting

Set up WLAN security.

See WLAN default setting sticker for factory default encryption key setting.

Various security settings can be set via SSID and multi-SSID. The setting methods are identical.

If Wi-Fi communication standard setting is set to "11n," Encryption Mode cannot be changed to WEP or WPA (TKIP). See "Wi-Fi Setting" (P.5-5) to change communication standard.

<WPA Setting>

- 1 In Encryption Mode select **WPA-PSK, WPA2-PSK or WPA/WPA2 Mixed**
- 2 Enter encryption key
- 3 Select either **TKIP or AES**
- 4 Click **Apply**
- 5 Setup changes are applied after reconnecting Wi-Fi

The screenshot shows the 'Security Setting' page for an SSID named '101SI'. The 'Encryption Mode' is set to 'WPA-PSK'. The 'Encryption Key' field is empty, and the 'Algorithm' is set to 'TKIP' (selected) and 'AES' (unselected). An 'Apply' button is at the bottom.

Item	Description	Option
Encryption Mode	Select WPA-PSK, WPA2-PSK or WPA/WPA2 Mixed.	None, WEP, WPA-PSK, WPA2-PSK, WPA/WPA2 Mixed
Encryption Key	Set a random encryption key.	Character strings can use 8 - 63 alphanumeric characters and symbols.
Algorithm	Select algorithm.	TKIP, AES

<WEP Setting>

- 1 Select WEP
- 2 Setup default key
- 3 Select key type *ASCII* or *HEX* for applicable key
- 4 Enter key in empty field
- 5 Click **Apply**
- 6 Setup changes are applied after reconnecting Wi-Fi

The screenshot shows the 'Security Setting' page for an SSID named '101SI'. The 'Encryption Mode' is set to 'WEP'. The 'Default Key' is set to 'Key 1'. There are four 'WEP Key' entries (1, 2, 3, 4). Each entry has a dropdown for the key type (ASCII or HEX) and a text field for the key value. An 'Apply' button is at the bottom.

Item	Description	Option
Encryption Mode	Select WEP.	None, WEP, WPA-PSK, WPA2-PSK, WPA/WPA2 Mixed
Default Key	Select one of four WEP keys to be used.	1 - 4
WEP Key	Select WEP key type (HEX or ASCII), and set random WEP key.	For HEX the character strings can use 10 or 26 digits composed of the characters 0-9 and A-F. For ASCII the character strings can use 5 or 13 alphanumeric characters and symbols.

IP/DHCP Server Setting

IP Address/DHCP server setting.

If DHCP server is invalid, changes are not applied to the start of IP, end of IP, or lease time settings.

SoftBank

Network: MAIN AREA Connection: Connected USIM: PIN Enabled

Home Wi-Fi Firewall Connection System Help

IP Address/DHCP Server

LAN Interface Setting

IP Address: 192.168.1.1

Subnet Mask: 255.255.255.0

Primary DNS: 192.168.1.1

Secondary DNS:

DHCP Server: ☒ Enable ☐ Disable

Start of DHCP IP Address: 192.168.1.2

End of DHCP IP Address: 192.168.1.254

DHCP Lease Time(600-10sec): 600

Apply

Item	Description	Option
IP Address	Set LAN IP Address.	4 sets of numbers (0 to 255)
Subnet Mask	Set LAN Subnet Mask.	4 sets of numbers (0 to 255)
Primary DNS	Set LAN primary DNS.	-
Secondary DNS	Set LAN second DNS.	-
DHCP Server	Select DHCP Server Operation Mode.	Enable, Disable
Start/End of DHCP IP Address	Set start and end of IP address.	4 sets of numbers (0 to 255) Starting address value must be smaller than ending address value.
DHCP Lease Time (600 -) [sec]	Set IP address lease time.	-

Firewall

Set the filtering, port allocation settings, and DMZ and UPnP settings.

Filtering Setting

Set WLAN connection restrictions (Accept/Drop) via MAC addresses, IP addresses and port numbers.

SoftBank

Network Main AREA Connection Connected USB PnP Enabled

Home Wi-Fi Firewall Connection System Help

MAC/IP/Port Filtering setting

Basic Setting

MAC/IP/Port Filtering: Enable

Default Policy: Accept

Once the "MAC/IP/Port Filter List" is empty, all the terminal would be accepted.

Apply

MAC/IP/Port Filter Setting

MAC Address:

Destination IP Address:

Source IP Address:

Protocol: TCP

Port Range:

Action: Drop

Description:

Add

MAC/IP/Port Filter List

MAC Address	Destination IP Address	Source IP Address	Protocol	Action	Port Range	Description
			TCP	Accept		

Delete

Item	Description	Option
MAC/IP/Port Filtering	Select Enable/Disable MAC/IP/Port filtering.	Enable, Disable
Default Policy	Select permit/annul for configuration not saved on MAC/IP/Port filter lists. Accept: Connectable to terminals of unsaved configuration. Drop: Not connectable to terminals of unsaved configuration.	Accept, Drop
MAC Address	Set MAC addresses to permit or annul wireless connections. * Operations may violate regular default policy.	6 sets of numbers (00 to FF)
Destination IP Address	Set transmission destination terminal IP addresses which apply the rules.	4 sets of numbers (0 to 255)
Source IP Address	Set transmission source terminal IP addresses which apply the rules.	4 sets of numbers (0 to 255)
Protocol	Select protocols which apply the rules.	TCP, UDP, ICMP, none
Port Range	Set transmission destination/transmission source port ranges which apply the rules.	-
Action	Select permit/annul for transmission destination/transmission source IP addresses, and port number filters.	Accept, Drop
Description	Input comments regarding the rules.	32 characters can be input.
MAC/IP/Port Filter List	Saved filter lists appear. Delete unneeded listed.	-

Port Mapping Setting

Set rules so that specific device port access in LAN can be controlled from Internet.

SoftBank

Network: LAN AREA Connection: Connected USIM: PIN Enabled

Home Wi-Fi Firewall Connection System Help

Port Mapping

Port Mapping: Enable

Apply

Name:

IP Address:

Port Range: -

Protocol: TCP

Add

Port Forwarding List

Name	IP Address	Port Range	Protocol
<input type="text"/>	<input type="text"/>	2 - 100	TCP

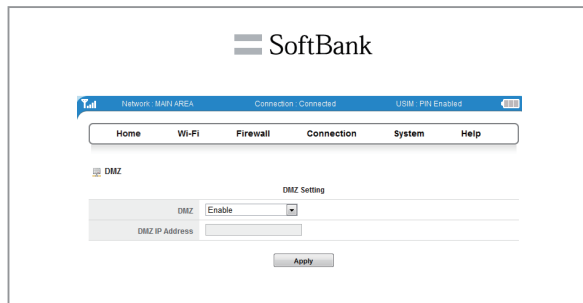
Delete

Web UI Guide

Item	Description	Option
Port Mapping	Select Operation Mode for port forwarding function.	Enable, Disable
Name	Set list registration names.	20 characters can be input.
IP Address	Set terminal IP addresses which open the ports.	4 sets of numbers (0 to 255)
Port Range	Set forwarding destination port number range.	-
Protocol	Select protocols to be used.	TCP, UDP, TCP + UDP
Port Forwarding List	Saved port forwarding rules in lists appear. Delete unneeded lists.	-

DMZ

Set a DMZ host that is isolated from other terminals as a specified terminal within LAN.



Item	Description	Option
DMZ	Select DMZ Operation Mode.	Disable, Enable
DMZ IP Address	Set DMZ host IP addresses.	4 sets of numbers (0 to 255)

UPnP

Set configuration of UPnP (Universal Plug & Play) via WLAN terminal connections within LAN.

Item	Description	Option
UPnP	Select UPnP Operation Mode.	Enable, Disable

Connection

Set configuration for network (MAIN AREA), 4G/3G network, and USIM.

NETWORK Setting (MAIN AREA)

Add/edit network (MAIN AREA) destinations for connection.

Item	Description	Option
Profile Selection	Select profile to edit/delete/add.	Factory Default: MAIN_AREA
Profile Name	Enter optional profile name.	Max Length: 14 Alphanumeric/symbols (except \)
APN	Set APN.	Max Length: 100 Alphanumeric/symbols (. -) cannot be used for first or last characters
User Name	Set user name.	Max Length: 126 Alphanumeric/symbols (except \)
Password	Set password.	Max Length: 40 Alphanumeric/symbols (except \)
Authentication	Select authentication method.	None, PAP, CHAP, PAP/CHAP
Add	Add a new profile to list.	-
Edit	Edit a profile in list.	-
Delete	Delete a profile from list.	-
Default	Set default profile.	-
Connection setting (Connect)	When network is disconnected, click to connect network.	-

<Adding Access Points>

- 1 In **Profile selection**, select ...
- 2 Input profile name, APN, user name and password
- 3 Click **Add** to add access points

<Editing Access Points>

- 1 In **Profile selection**, select already saved profile
- 2 Change, name, APN, user name and password
- 3 Click **Edit** to save changes

Here if **Add** is clicked, access points are added. If no changes are made and **Add** is clicked, then same access point details are added.

<Deleting Access Points>

- 1 In **Profile selection**, select already saved profile
- 2 Click **Delete** to delete access points

<Default Settings>

- 1 In **Profile selection**, select already saved profile
- 2 Click **Default**, and selected access point that is used to connect to Internet is stipulated as default

4G/3G Network

Select connection destination network (4G/3G).

Item	Description	Option
ACT Select	Select Network Mode.	Auto* MAIN AREA (4G/3G) MAIN AREA (4G Single) MAIN AREA (3G Single) SUB AREA (3G Single)*

* Cannot be changed with Mobile Router.

USIM

Enable/Disable PIN Authentication, or change PIN. (See "PIN" in "General Notes".)

Item	Description	Option
PIN status	Toggle between Enable/Disable PIN Authentication.	Enable, Disable
PIN Code	Input current PIN when toggling between Enable/Disable PIN Authentication.	4-8 digit numbers
Current PIN*	When changing PIN, input current PIN.	4-8 digit numbers
New PIN*	When changing PIN, input new PIN.	4-8 digit numbers
Verify New PIN*	When changing PIN, input new PIN again for authentication.	4-8 digit numbers

* Appears only if PIN Authentication is enabled.

System

Set Firmware Upgrade, System Settings, Language.

Firmware Upgrade Setup

Upgrade AP firmware, modem firmware, Utility Software and device drivers. AP firmware and modem version can be checked from Home menu. Check Utility Software and device driver versions with Utility Software program information.

If Battery Strength is level 1, the following upgrades are unavailable. Upgrade after charging Battery.

<How to Upgrade>

① Click **Look-up** and select desired file

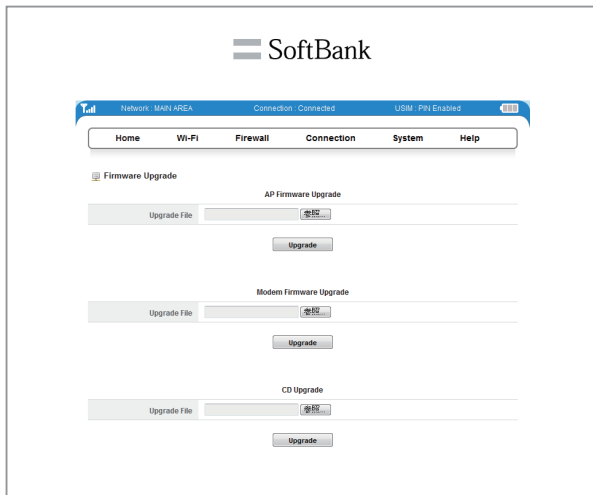
② Click **Upgrade** to begin upgrade

Web UI window opens, and "Updating" appears on Mobile Router's Display.

③ **Wait for the upgrade completion**

Upgrading takes several minutes.

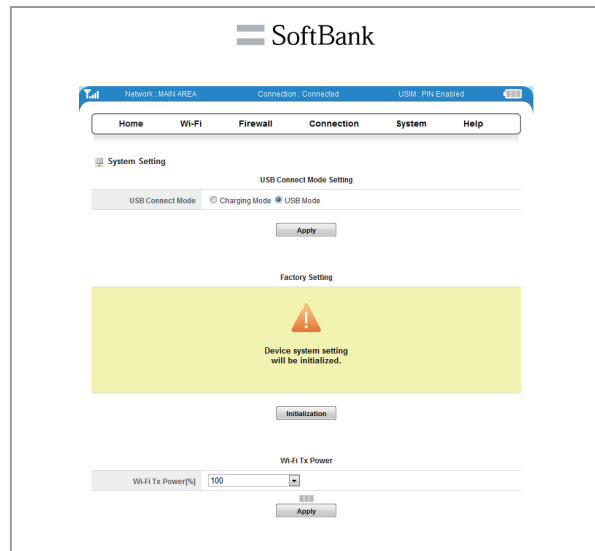
* More than one firmware cannot be upgraded simultaneously.



Item	Description	Option
AP Firmware Upgrade	AP firmware can be upgraded.	-
Modem Firmware Upgrade	Modem firmware can be upgraded.	-
CD Upgrade	Utility Software and device drivers can be upgraded.	-

System Setting

Set settings pertaining to system operations.



Sleep Timer Setting

Sleep Timer

1 min

Apply

Power Saving Timer Setting

Power Saving Timer

10 min

Apply

Power Off Timer Setting

Power Off Timer

Disable

Apply

Login ID Setting

ID

user

Current Password

New Password

Verify Password

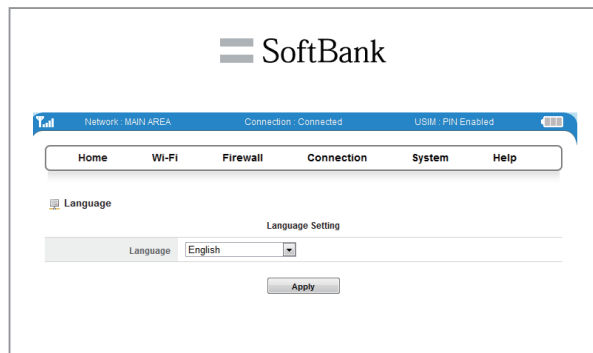
Apply

Item	Description	Option
USB Connect Mode	Change Operation Mode when PC is connected via USB Cable.	Charging Mode, USB Mode
Factory Setting	Initialize all settings.	-
Wi-Fi Tx Power [%]	Set various values to Wi-Fi Tx power.	10-100%
Sleep Timer ^{*1}	Set Sleep time.	Disable, 1, 3, 5, 10, 15 min.
Power Saving Timer ^{*2}	Set Power Saving time.	Disable, 5, 10, 20 min.
Power Off Timer ^{*3}	Set Power Off time.	Disable, 10, 20, 30, 60 min.
Login ID Setting	Change ID/Password.	-

- *1 Sleep Mode is a Standby Mode wherein when Mobile Router is idle (not a single device is connected to WLAN) its WLAN functions are disabled. Press any one of Operation Keys to release Sleep Mode to enable WLAN functions.
- *2 Power Saving Mode is a Standby Mode wherein in addition to Sleep Mode (WLAN functions disabled), Internet connection is severed. Press any one of Operation Keys to release Power saving mode to automatically connect to Internet.
- *3 Power Off is a function wherein Mobile Router's power automatically powers Off when Mobile Router is idle (not a single device is connected to WLAN).

Language Setup

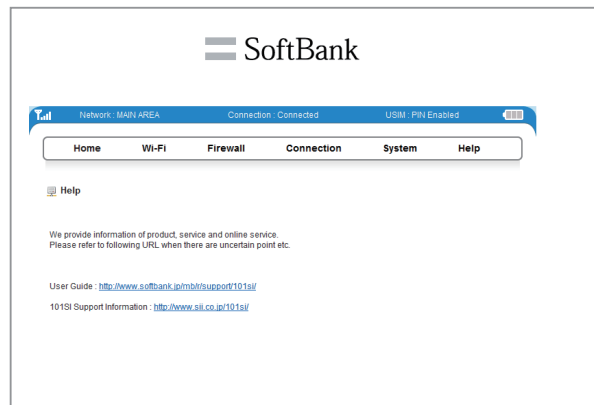
Language setting can be changed from this menu.



Item	Description	Option
Language	Select language.	Japanese, English

Help

Shows website URLs.



6

Utility Software Guide

Overview	6-2
Installing Utility Software	6-2
Operating Utility Software	6-2
Modem Status	6-3
Verification/Changing of Settings	6-4
Common Setting	6-4
Connection	6-5
Preferred Mode	6-6
PIN	6-6
Information	6-7
Help	6-8

Overview

Utility Software functions to confirm and change 4G/3G connection settings for Mobile Routers connected to PCs via USB Cables.

Besides Utility Software, Web UI functions to confirm and change Mobile Router's settings. For details on Web UI, see Chapter 5 "Web UI Guide".

Installing Utility Software

Utility Software automatically installs itself when Mobile Router is initially connected to a PC. See "Installing Utility Software" in Chapter 3 or 4 for detailed installation procedures.

If USB Connection Mode is in "Charging Mode," utility cannot be installed. To confirm USB Connection Mode, see Web UI "System Settings" (P.5-16).

When Utility Software and device drivers are upgraded, the currently installed Utility Software and device drivers cannot be reinstalled unless they have been uninstalled. See "Uninstalling Utility Software" in Chapter 3 or 4 for detailed uninstallation procedures.


Operating Utility Software

Operating on Windows

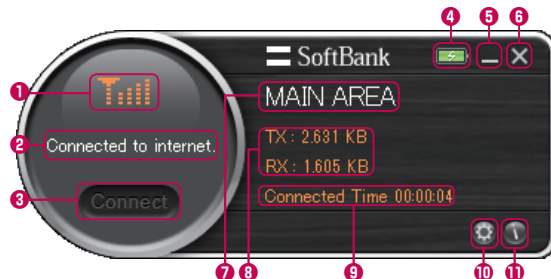
- 1 Power on Windows PC
- 2 Connect Mobile Router to Windows PC via USB Cable
- 3 Click **Start** → **All Programs** → **Softbank 101SI Utility** → **Softbank 101SI Utility**

Utility Software screen appears.

Operating on Mac






- 1 Power on Mac
- 2 Connect Mobile Router to Mac via USB Cable
- 3 Click  to open Finder
- 4 Click **101SI Utility**



Utility Software screen appears.



Utility Software Guide

No.	Item	Description
1	Signal Strength	Signal Strength of 4G/3G network.
2	Modem Status	See "Modem Status" (P.6-3).
3	Connect	If connected to Internet, it is unlit. When lit, click to connect to Internet.
4	Battery Strength	Battery charging status (Charging/Fully charged)
5	Minimize	Hides Utility Software's main page. Tray icon only.
6	Close	Closes Utility Software.
7	Available Service	MAIN AREA: SoftBank data transfer service is available.
8	Packet Usage Rate Information	Received and sent packet rate. TX: Transmission (uploads) packet volumes RX: Reception (downloads) packet volumes
9	Connected Time	Connected time for this connection.
10	Setting	Check and change settings. See "Verification/Changing of Settings" (P.6-4).
11	Program Information	Software version.

Signal Strength	
No service	
Very weak	
Weak	
Normal	
Strong	

Battery Strength	
Charging	
Fully charged	

Modem Status

Status	Message
Device Status	Can not detect device
	The modem is initializing
	Failed to initialize the modem
	Device is Connected
Internet Connection Status	Connecting...
	Connected to internet
	Disconnecting...
	Disconnected from internet
	Failed in dialing up
	Line is busy now. Please try later
PIN Status	Service is not available now
	PIN Code is verified
	PIN Code is not verified
	PIN Locked
	Invalid USIM
	No USIM Card
	PUK Lock USIM
	USIM Initialize Fail
	Unknown USIM

Verification/Changing of Settings



No.	Item	Description
1	Common Setting	Select a language.
2	Connection	Add/edit/delete access points.
3	Preferred Mode	Set a connection network.
4	PIN	Set PIN.
5	Information	Phone number, software version.
6	Help	Website information.

Common Setting

Language setting can be changed from this menu.



No.	Item	Description
1	Japanese	Set Utility Software language to Japanese.
2	English	Set Utility Software language to English.
3	Set	Save this page's settings.

■ Connection

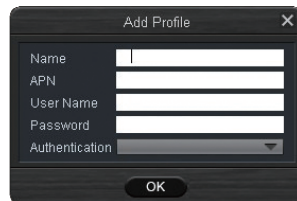
Add/edit/delete access points for network (MAIN AREA).



No.	Item	Description
①	Connection list title	MAIN AREA Connection List
②	Connection list Toggle button	Cannot be used with Mobile Router.
③	MAIN AREA Connection List	Choose connection list to add/edit/delete.
④	Add/Edit/Delete	Add a new Connection to list. Edit a Connection in list. Delete a Connection from list.
⑤	Set default	Set chosen connection list as default.

<Add>

Click **Add**, and Add Profile window appears. Save APN obtained from network operator. Enter User Name, Password, Authentication, if necessary.



<Edit>

Select Profile from saved list, then click **Edit**. Change current Profile.



<Delete>

Select Profile from saved list and click **Delete** to remove it from modem.

<Set default>

Select Profile from saved list, then click **Set default**.

Preferred Mode

Select connection destination network (4G/3G).



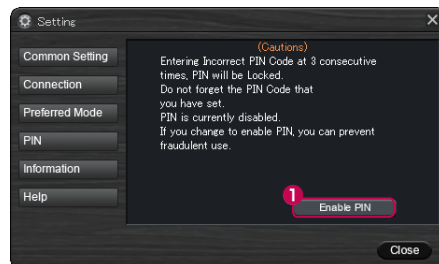
No.	Item	Description
1	Auto	Cannot be used with Mobile Router.
2	MAIN AREA (4G/3G)	Automatically connects between main area 4G/3G.
3	MAIN AREA (4G Single)	Connects via main area 4G.
4	MAIN AREA (3G Single)	Connects via main area 3G.
5	SUB AREA (3G Single)	Cannot be used with Mobile Router.
6	Set	Save this page's setting.

PIN

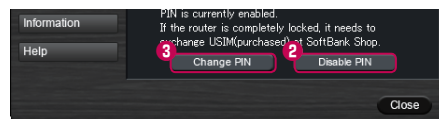
Enable/Disable PIN Authentication or change PIN. (See "PIN" in "General Notes".)

PIN Authentication Setting

The current PIN is required to Enable/Disable PIN Authentication.



Button display changes via toggling of Enable PIN/Disable PIN.

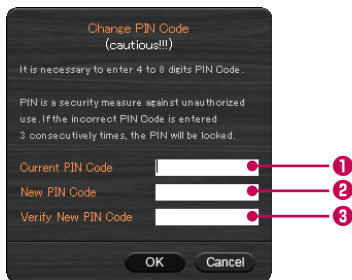


No.	Item	Description
1	Enable PIN	Enable PIN authentication.
2	Disable PIN	Disable PIN authentication.
3	Change PIN	Changes PIN.

Utility Software Guide

Change PIN

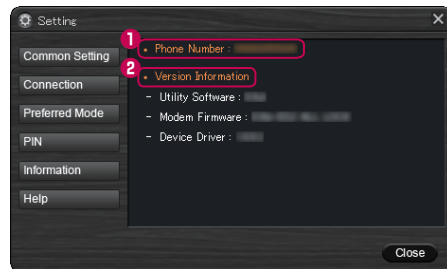
When PIN is enabled, user can change PIN. Enter Current PIN first, and New PIN second for verification. Input PIN needs to be 4-8 digits.



No.	Item	Description
①	Current PIN Code	Enter current PIN to be changed.
②	New PIN Code	Enter new PIN.
③	Verify New PIN Code	Re-enter new PIN to confirm.

Information

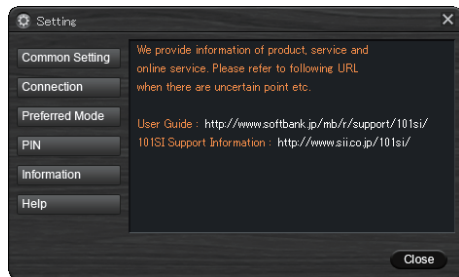
This menu shows phone number and software version.



No.	Item	Description
①	Phone Number	User phone number
②	Version Information	Utility Software Modem Firmware Device Driver

■ Help

Shows website URLs.



7

Troubleshooting

Troubleshooting List

7-2

How to Respond

7-2

Troubleshooting List

No.	Symptoms	Reference
1	Unable to connect to WLAN	P.7-2
2	PC does not recognize Mobile Router	P.7-3
3	Installer does not run automatically	P.7-4
4	Internet connection fails	P.7-4
5	Transmission fails	P.7-4
6	Transmission is slow	P.7-4
7	Forgot PIN/Unknown PIN unlock number (PUK Code)/USIM Card is locked	P.7-4
8	USIM is not recognized	P.7-4
9	Confirming Administrator logon	P.7-5
10	"NO SERVICE" outside Japan	P.7-5
11	Resetting to factory defaults	P.7-5
12	Old phone number appears in Utility Software	P.7-5
13	Suddenly cannot use	P.7-5

How to Respond

Unable to connect to WLAN

- Make sure Mobile Router is properly connected to PC.
- If you are unable to connect with WPS function, see WLAN device manual. If problem persists, set up WLAN manually. See Chapter 2 "Using Wi-Fi (WLAN)".
- When connecting a WLAN device with a designated PIN for WPS use, verify PIN was set up correctly. See manual for more details. (P.5-5)
- Check whether correct encryption key is set via security settings of a connected WLAN. If you have forgotten the encryption key, see "Resetting to factory defaults" (P.7-5), to reset Mobile Router to factory settings, then once again set encryption key. See WLAN default setting sticker for factory default encryption key.
- Confirm if encryption mode is properly set. Some Wi-Fi devices do not support WPA/WPA2. See WLAN user guide.

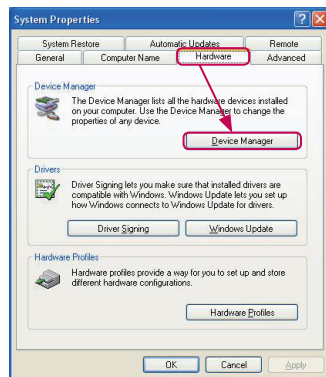
PC does not recognize Mobile Router

- Confirm that Mobile Router is properly installed.
- Remove Mobile Router from PC, restart PC, then reconnect Mobile Router.
- Check whether device driver is correctly installed in PC. If it is not correctly installed, see Chapter 3 and reinstall Utility Software.

1 Properties appears

For Windows 7 or Windows Vista, right click **Computer**, and select **Properties**. Click **Advanced system settings**, and after **User Account Control** dialog appears. Click **Yes (Continue)** for Windows Vista). For Windows XP, right click **My Computer**, and select **Properties**.

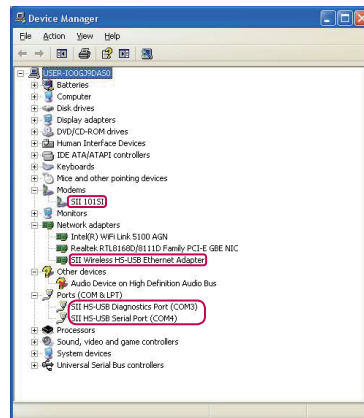
2 After Properties dialog appears. Select Hardware, and click Device Manager



3 Check that the following devices appear

(COM port numbers differ according to the environment of PC used.)

- Network adapters
SII Wireless HS-USB Ethernet Adapter
- Port (COM & LPT)
SII HS-USB Diagnostics Port
SII HS-USB Serial Port
- Modems
SII 1015I



Troubleshooting

Installer does not run automatically

Once the system recognizes new hardware it may take some time for the installer to run. However, if the installer does not run automatically after some time, disconnect and reconnect Mobile Router from PC. See P.3-6 to P.3-7 when installer does not run automatically after connecting again.

Internet connection fails

Make sure you are within the service area.

- ▶ If signal reception is poor, move to where signal is strong, then reconnect.
- ▶ The access point might be busy depending on the time of day. Wait a while then reconnect.
- ▶ Activate Web UI and confirm that 4G/3G setting and network setting are correct. See "Web UI Guide" (P.5-1).
- ▶ Activate Utility Software and confirm that 4G/3G setting and network setting are correct. See "Utility Software Guide" (P.6-1).

Transmission fails

- Make sure Mobile Router is properly connected to PC.
- Signal may be weak. Move to where signal is stronger.
- Remove Mobile Router from PC and then reconnect it.
- If above steps do not re-establish a connection, remove Mobile Router, restart PC, and try again.

Transmission is slow

Signal may be weak. Move to where signal is stronger.
Connection may be poor. Try again after a while.

Forgot PIN/Unknown PIN unlock number (PUK Code)/USIM Card is locked

Contact SoftBank Customer Support, General Information (P.8-3).

USIM is not recognized

- Check to see if USIM Card is installed properly. See "Installing USIM Card" on P.1-7 for more details.
- Check to see if USIM Card is damaged.
- Check to see if USIM Card's metal contacts are damaged or corroded.
- USIM Cards might not be recognized if they (metal contacts in particular) become dirty. In this case, gently clean with a soft cloth.
- Contact SoftBank Customer Support (P.8-3).

Troubleshooting

Confirming Administrator logon

- For Windows 7 and Windows Vista
 - ① **Start** menu → click **Control Panel** to show "Control Panel" window
 - ② Click on "User Account and Family-Friendly Security Settings" and in next window click **User Account**
 - ③ User name and account type of the person currently logged in appear on the right side of the screen.
If logged in account type is "Administrator", that user has the authority to set up Mobile Router
- For Windows XP
 - ① Click on **Start** menu
 - ② The name of the user currently logged in shows at the top of the **Start** menu
 - User name does not show for **Start** menus set to classic. Right-click on **Start** menu, select Properties and then select **Start** menu.
 - ③ **Start** menu → click on **Control Panel** to show "Control Panel" window
 - ④ Click **User Account**
 - ⑤ Verify that the user name is the one checked as ② in displayed window. If "Administrator" appears under user name, that user has the authority to set up Mobile Router

"NO SERVICE" outside Japan

Mobile Router is not for use overseas.

Resetting to factory defaults

- Only reset Mobile Router
 - ① Remove Battery Cover, and press Reset Key for about 10 seconds or more
- Reset using Web UI
 - ① With Web UI, **System** → **System Setting** → **Factory Setting**
 - ② Click **Initialization**
 - ③ Mobile Router reboots automatically

Old phone number appears in Utility Software

The phone number might appear on Utility screen even after closing an account according to the stipulations of the user's contract and account closing methods.

Suddenly cannot use

Power Off and On.

8

Appendix

Specifications	8-2
Warranty & Customer Service	8-2
Customer Service	8-3
SoftBank Customer Support	8-3
SoftBank Technical Support Center	8-3
SoftBank Mobile Global Call Center	8-3
Seiko Instruments Inc.	
Customer Support Website	8-3

Specifications

Model Name	SoftBank 1015I
Dimensions	100.0 mm (D) × 64.0 mm (W) × 16.1 mm (H)
Weight	110 g
Interface	USB 2.0
Power Consumption	3.0 W * Power consumption varies according to usage conditions.
Operating Environment	Operating temperature range: 0° to +35° C Operating humidity: 30% to 85%
Frequency	3G: 1.5 GHz 4G: 2.5 GHz
Compatible Networks	WAN : 3G (W-CDMA/HSUPA/HSDPA/DC-HSPA+) 4G (AXGP) WLAN: IEEE802.11b/g/n

Warranty & Customer Service

Mobile Router purchase includes Warranty.

- ▶ Confirm shop name and purchase date.
- ▶ Read contents of Warranty and keep it in a safe place.
- ▶ The warranty period can be found in the Warranty.
- ▶ Before Submitting Mobile Router for repairs, contact SoftBank Customer Support, General Information (P.8-3) or SoftBank shop; be prepared to describe problem in detail.
- ▶ During the warranty period, repairs will be made under the terms and conditions described in the Warranty.
- ▶ After the warranty period, if said repairs can be made, you will be charged for them.

- ▶ SOFTBANK MOBILE Corp. is not liable for any damages resulting from use of Mobile Router.
- ▶ Files and settings may be lost or altered due to accidents or repairs. Keep a copy of important files, etc. SOFTBANK MOBILE Corp. is not liable for damages resulting from accidental loss or alteration of files or settings.
- ▶ Disassembling or modifying Mobile Router may be a violation of the Radio Law. Note that SOFTBANK MOBILE Corp. does not accept repair requests for disassembled or modified products.
- ▶ For more information, contact SoftBank Shop or SoftBank Customer Support, General Information (P.8-3)

Customer Service

For information about SoftBank Mobile devices or services, call General Information. For repairs, call Customer Assistance.

■ SoftBank Customer Support

General Information

From a SoftBank handset, dial toll free at 157

From a landline/IP Phone, dial toll free at 0800-919-0517

Customer Assistance

From a SoftBank handset, dial toll free at 113

From a landline/IP Phone, dial toll free at 0800-919-0113

If you cannot reach a toll free number, use the number (charges apply) below for your service area.

▶ Hokkaido Area, Tohoku Area, Hokuriku Area, Kanto, Koshinetsu Area	022-380-4380
▶ Tokai Area	052-388-2002
▶ Kansai Area	06-7669-0180
▶ Chugoku Area, Shikoku Area, Kyushu Area, Okinawa Area	092-687-0010

■ SoftBank Technical Support Center

Service Hours 9:00-20:00

From a SoftBank handset, dial toll free at 5525

From a landline/IP Phone, dial toll free at 0088-21-5525

* These numbers cannot be dialed from outside Japan.

■ SoftBank Mobile Global Call Center

From outside Japan, dial +81-3-5351-3491

(toll free from SoftBank handsets)

If 101SI is lost or stolen, call this number immediately
(international charges apply)

■ Seiko Instruments Inc. Customer Support Website

<http://www.sii.co.jp/101si/>

SoftBank 101SI User Guide

March 2012, First Edition

SOFTBANK MOBILE Corp.

* Please contact a SoftBank mobile phone dealer with further inquiries

Model name: SoftBank 101SI

Manufacturer: Seiko Instruments Inc.



Please help the mobile industry maintain high environmental standards. Recycle your old handsets, batteries and charger units (all manufacturers and brands). Before you recycle, please remember these important points:

- * Handsets, batteries and chargers submitted for recycling cannot be returned.
- * Always erase all data on old handsets (Phone Book entries, call records, mail, etc.).