809SH
User Guide

809SH User Guide Contents

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Settings (Using Mobile WEB UI)

Appendix

Safety Precautions

Introduction

Before You Begin

Read "クイックスタート (Quick Start)" (Japanese) and "お願いと
ご注意 (Safety Precautions)" (Japanese) thoroughly beforehand
for proper use.
Accessible services may be limited by contract conditions.

Guide Usage Notes

Most operation descriptions are based on default settings.
Unless noted otherwise, operations are basically described
starting from Home Screen. Operation descriptions may be
abbreviated.

Screenshots & Key Labels

Displays in this guide are provided for reference only. Actual
Display may differ in appearance. Key labels in this guide are
simplified for description purposes and differ with actual
Display.

Other Notations

This product is referred to as "Wi-Fi router" in this guide.

Operating Environment

Use Wi-Fi router in any of these operating environments.
Use outside these environments may affect performance.
Operating environment (hardware, connected peripherals,
installed applications, etc.) may also affect performance.

· For computer support, OS version upgrade information,
  etc., see corresponding manufacturer's product support
  documentation.
· The information for operating environment listed here is the
  current information as of September 2019.

Item	Description
Supported devices	■ Devices that can be connected via Wi-Fi Wi-Fi router can be connected with WLAN devices that support WLAN standards IEEE802.11a/n/ac (5 GHz band), and IEEE802.11b/g/n (2.4 GHz band). For operation or operating instructions of Wi-Fi supported devices, contact the manufacturer. ■ Devices that can be connected via USB Supported operating systems are as follows: · Windows 10 (32-bit/64 bit) · Windows 8.1[1] (32-bit/64 bit) · Windows 7 SP1 (32-bit/64 bit) · macOS Mojave 10.14.6 (64 bit) · macOS High Sierra 10.13.6 (64 bit) · macOS Sierra 10.12.6 (64 bit) Wi-Fi router is charged while connecting via USB. ■ Devices that can change the Wi-Fi router settings Supported operating systems[2] are as follows: · Windows 10 (32-bit/64 bit) · Windows 8.1[1] (32-bit/64 bit) · Windows 7 SP1 (32-bit/64 bit) · macOS Mojave 10.14.6 (64 bit) · macOS High Sierra 10.13.6 (64 bit) · macOS Sierra 10.12.6 (64 bit) · Android[3] · iOS[3]
Interface	USB2.0 or later

	■ Windows
	・Windows 7 SP1/32 bit and 64 bit: Microsoft Internet Explorer 11 or later
	・Windows 8.1/32 bit and 64 bit: Microsoft Internet Explorer 11 or later
	・Windows 10/32 bit and 64 bit: Microsoft Edge 44 or later, Microsoft Internet Explorer 11 or later
Compatible Browser[4]	・Google Chrome™ 43 or later
	■ Mac
	・Safari 9.0 or later
	・Google Chrome 43 or later
	■ Android™ Devices
	・Google Chrome 43 or later
	■ iPhone/iPod touch/iPad
	・Safari 9.0 or later

1 Windows RT is not supported.
2 Japanese edition operating systems are supported. Operations with upgraded OS or under an added or modified environment are not guaranteed.
3 Not all the menu items/setting items can be operated. To show all the items, tap "PC View" tab. For details, see "Switching to PC Web UI."
4 Even on the supported versions of Microsoft Internet Explorer or Microsoft Edge, display may be corrupted if document mode is old. If corruption happens, check that the document mode is latest.

Package Contents

The following items are included in the package. Please confirm package contents before use. Contact Customer Service for missing items.
Keep accessories in a safe place.
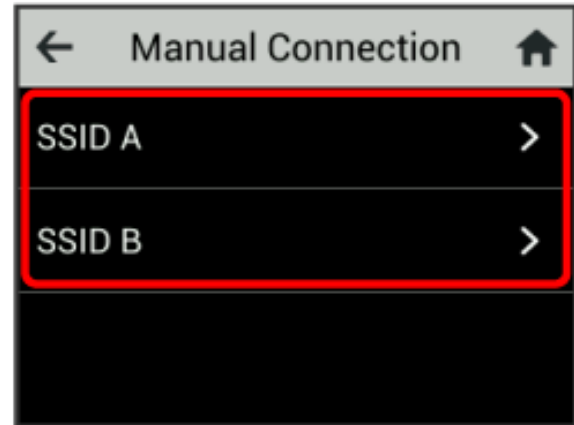AC Charger is not supplied. Purchase AC Charger (optional).

・809SH (Main unit)
・SIM Removal Tool (Complimentary sample)
・クイックスタート (Japanese)
・お願いとご注意 (Japanese)
・Label for WLAN Initial Setting

SSID and Password (Security Key)

When connecting to a Wi-Fi device, SSID (network name) and password (Security Key: WPA Key or WEP Key) are required. Confirm SSID and password (Security Key) as follows.

1

In Home Screen, Wi-Fi Guide → Manual Connection → SSID A / SSID B

🏁 SSID and password (Security Key) appear.

・Two SSIDs are set to Wi-Fi router. By default, a WPA2 key is set for both SSID A/SSID B.
・For greater security, use WPA/WPA2. However, some game consoles do not support WPA/WPA2.
・Alternatively, see label for WLAN Initial Setting to check default SSID and password (Security Key).

Getting Started

・Wi-Fi router accommodates software updates. Use the latest software.
・Note that connection speeds may drop or connections may be disabled depending on line traffic or connection environments. Please be forewarned.
・To enhance security, it is recommended that a password for unlocking the screen be set. For details on setting Lock Screen PIN, see "Screen Lock."
・When Wi-Fi router is under a corporate subscription, Wi-Fi router functionality can be regulated by administrators. Depending on how functions are regulated, settings or operations as described herein may not be available.
・Wi-Fi router locks the screen and disconnects communication when high temperature is detected. Screen lock is automatically canceled when high temperature state is resolved.

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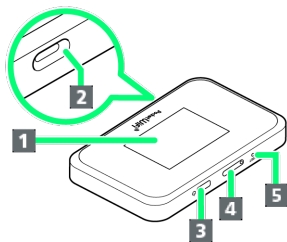 this guide are registered trademarks or trademarks of the
  respective companies.

Getting Started

Parts & Functions

Front/Top/Bottom

Part	Description
1 Display	Wi-Fi router status appears. Wi-Fi router uses a touchscreen-type Display. Operate with your fingers on Display.
2 USB Type-C Port	Connect USB Cable, AC Charger (optional) and Cradle (optional). Also use to supply power to other devices (Mobile Charge).
3 Power Key	Turn power and Display on/off.
4 SIM Card Tray	Install SIM Card.
5 Reset Button	Long Press with a pointed object ➲ YES to reset Wi-Fi router to factory defaults.

Cradle (Optional) and USB Cable (Optional)

LAN Cable Connection to PC

Set Wi-Fi router on Cradle (optional) and connect to PC using LAN Cable to perform data communication. For details, see Cradle (optional) user guide.

USB Connection to PC

Connect Wi-Fi router and PC using USB3.0 Cable A to C (optional) to charge, perform data communication, and use Web UI. For details, see USB3.0 Cable A to C (optional) user guide.
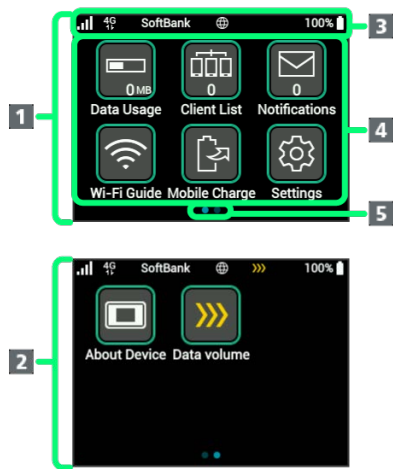
Mobile Charge

Connect USB Conversion Cable C to A (optional) and USB3.0 Cable A to C (optional) to supply power (Mobile Charge) to smartphones, etc. For details, see USB Conversion Cable C to A (optional) and USB3.0 Cable A to C user guide.

Notes on Using Reset Button

Note the following for using Reset Button.
· Power on Wi-Fi router in advance.
· Be careful not to be injured when pressing Reset Button.
· Do not Press Reset Button strongly. May cause damage.
· Do not use sharpened object. May cause damage.
· Using pen or pencil may make Reset Button dirty with ink etc. Use with caution.
· The factory defaults can also be reset from Web UI. For details, see "Resetting Wi-Fi Router."

Home Screen

Layout

Part	Description
1 Home Screen (Page 1)	This is Home Screen (Page 1).
2 Home Screen (Page 2)	This is Home Screen (Page 2). Flick Display right or left to switch screens.
3 Status Bar	Status Indicators for communication status and notification appear.
4 Touch Menu	Touch Menu icons for various functions. Use them by tapping.
5 Page Indicator	Home Screen has two pages of icons. Indicates the page position.

Status Indicators

Icon	Description
ₐₗₗ 1	Mobile network connected (signal strong)
ₐₗₗ 1	Mobile network connected (signal weak)
OUT	No signal
4G / **LTE** / **3G**	Network name
SoftBank	Network operators name
⊕	Mobile networks connected
⊗	Mobile networks not connected
▣	Software downloading
▯	Battery level full
▪	Battery level low
▪	Battery level insufficient
⚡	Charging
✉	Unread notifications
DFS 2	Check radio interference to the weather radar, etc.
》》 3	Notice of slow-speed communication (when under an individual subscription)
》》 4	Start of slow-speed communication (when under an individual subscription)
》》 4	End of slow-speed communication (when under an individual subscription)
⤵	Power supplying

1 R mark appears during international roaming.
2 Appears when the wireless communication standard is set to 5 GHz.
3 Appears when the amount of data remaining reaches specified value which starts slow-speed communication.
4 Automatically erased in the following month. Erase it in the settings of Wi-Fi router. For details, see "Clearing Notification Icons for Data Traffic."

Touch Menu Icons

Tap Touch Menu icons for settings and notifications.

Icon	Description
1 Data Usage	Show mobile network data usage, maximum traffic, Auto Reset Date, etc.
2 Client List	Show number of connected devices.
3 Notifications	Check and delete received notifications; number of unread notifications is shown. [1]
4 Wi-Fi Guide	Show and set QR Code, WPS connection, and SSID and password (Security Key) for Wi-Fi router.
5 Mobile Charge	Supply power to smartphones, etc. (Mobile Charge).
6 Settings	Make settings for mobile network, Wi-Fi Network, Lock Screen PIN for unlocking screen, Display Brightness, Display Timeout, language/time, software update, Sleep mode, USB mode, and quick startup, check Web UI URL, QR code, and Battery status, or delete notification icons.
7 About Device	Show Wi-Fi router's phone number, software version, etc.

8 Limitation (When under an individual subscription)	Appears when the amount of data remaining approaches specified value where slow-speed communication starts, or when slow-speed communication starts. Make a request for setting to normal speed or make a reservation/cancellation to maintain the normal speed.

[1] ✉ (Unread notification) appears on top in Lock Screen.

· Tap ← on the settings window or notification window to go back to the previous window and Tap 🏠 to go back to Home Screen.

Display Off/Sleep Mode

· If Wi-Fi router is not used for a certain period of time, Display turns off automatically. Press Power Key to illuminate Display again.
· If Wi-Fi router is not connected to a WLAN terminal, and there has been no operation of Wi-Fi router for a certain period of time, or if Battery has not been charged, Display turns off and Wi-Fi router enters Sleep mode to save power (time until entering Sleep mode is set to 5 minutes by default).
· In Sleep mode, WLAN is disabled.
· Press Power Key to turn Display on and release Sleep mode. After Sleep mode is released, WLAN function is enabled and Wi-Fi router can reconnect to WLAN devices.
· Some WLAN devices will disconnect a WLAN connection if there is no transmission for a certain period of time after connecting. If such a device is connected to Wi-Fi router, the device may disconnect and Wi-Fi router may enter Sleep mode.
· Change time before going into Sleep mode and Sleep mode on/off in Touch Menu or Web UI. For details, see "Sleep Mode" or "Wi-Fi Advanced Settings."
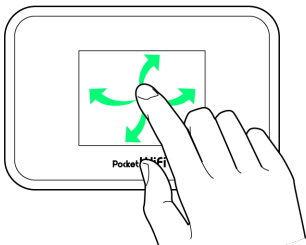
Using Touchscreen

Wi-Fi router uses a touchscreen-type Display. Operate with your fingers on Display.

・Tap
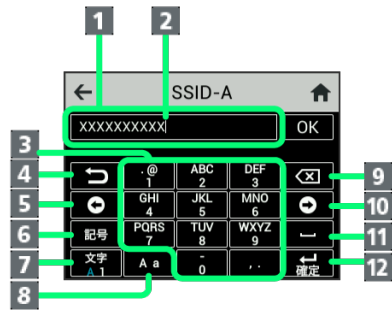
Contact Display lightly and briefly.

・Flick

Contact Display lightly, then brush screen up/down or left/right.

## Text Entry Window

Use onscreen keyboards for text entry.

Item	Description
1 Entry box	Enter text/number
2 Cursor	Show entry position
3 Keyboard	Enter keys/numbers
4 Return to previous character	Return to previous character
5 Cursor (Left)	Move cursor to left
6 Entry mode (Symbol)	Symbol entry window opens
7 Entry mode (Alphabet, Numbers)	Toggle alphabet and numbers
8 Uppercase/ lowercase	Toggle uppercase and lowercase for an unconfirmed letter
9 Delete	Delete a character before cursor
10 Cursor (Right)	Move cursor to right
11 Space	Enter a space
12 Fix	Confirm text entry

Text Entry

Multiple letters ("ABC," "DEF") are assigned to each key.
Tapping key toggles characters.

· Example: For "b," Tap [ABC/2] five times.
· Example: For "c," Tap [ABC/2] six times.

To go back to the previous character assigned to the same key, Tap [⮌].

· Example: When "c" appears by tapping [ABC/2] six times, Tap [⮌] to return to "b."

For characters assigned to the same key, operate as follows.

· Example: For "ca," Tap [ABC/2] six times 🔵 Tap [➡] 🔵 Tap [ABC/2] four times.

To toggle uppercase and lowercase for entered character, Tap [Aa].
To enter symbols such as "#" or "/," Tap [記号] . [⬇] Tap [⬆] to show all symbols that can be entered. return to the original screen.

Notifications of Data Usage

Notifications of Data Usage

Depending on the amount of data usage, the communication speed becomes slower.
When Wi-Fi router is under an individual subscription, Wi-Fi router makes advance notice or notification of start of slow-speed communication using pop-up window or icon.
When Wi-Fi router is under a corporate subscription, Wi-Fi router makes notification of start of slow-speed communication by the setting on the Corporate Concierge Site.

Status	Description
Advance notice of slow-speed communication	When the amount of data remaining approaches specified value where slow-speed communication starts, Notification is updated, Wi-Fi router shows pop-up window or [»] on Display.
Start of slow-speed communication	When the amount of data remaining reaches specified value, Notification is updated, Wi-Fi router shows pop-up window or [»] on Display.
End of slow-speed communication	When slow-speed communication ends, Notification is updated and [»] appears on Display.

SIM Card

SIM Card is an IC card containing phone number and other customer information.

💡 Handling SIM Card

Check the following regarding SIM Card handling.

1 IC Chip

For SIM Card handling, see SoftBank Website.

https://www.softbank.jp/mobile/support/protect/usim/
· Always keep the IC (gold) chip clean.
· Wipe clean with a dry, soft cloth.
· Avoid applying labels. May cause malfunction.

⚠ SIM Card Cautions

Observe the following when using SIM Card.
· Customer is responsible for any damage caused by inserting SIM Card in an other-brand IC card reader, etc. SoftBank Corp. is not responsible in such case.
· SIM Card is the property of SoftBank Corp.
· SIM Card is replaceable (at cost) in case of loss/damage.
· Return SIM Card to SoftBank Corp. when canceling subscription.
· Returned SIM Cards are recycled for environmental purposes.
· Note that SIM Card specifications and performance may change without notice. Please be forewarned.
· It is recommended that you keep a separate copy of information that is stored on SIM Card. SoftBank Corp. is not responsible for damages from saved information that is lost.
· Always follow emergency procedures to suspend service if your SIM Card or Wi-Fi router (SIM Card inserted) is lost/stolen. Contact Customer Service.
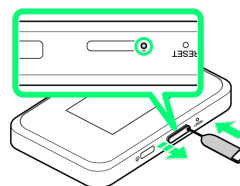· Be sure to power off Wi-Fi router before installing/removing SIM Card.

Installing SIM Card

Always power off beforehand.

· Set SIM Card in SIM Card Tray beforehand. Do not insert SIM Card without setting it in SIM Card Tray.
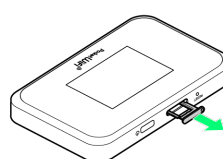
1

With Display upward, insert SIM Removal Tool in removal hole in SIM Card Tray

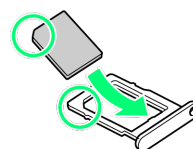· Press firmly and straight until SIM Card Tray ejects.

2

Pull out SIM Card Tray

· With Display upward, pull out SIM Card Tray. Pulling out SIM Card Tray with Display downward or Wi-Fi router held upright can allow SIM Card to fall from SIM Card Tray and become misplaced.
· Do not pull SIM Card Tray forcefully or at an angle. May cause damage. Gently pull SIM Card Tray out horizontally.
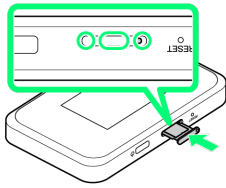
3

Set SIM Card in SIM Card Tray

· Place gently, noting orientation of SIM Card (notch/IC (gold) chip facing down).
· Make sure SIM Card is in Card Tray. Inserting Card Tray with SIM Card on its edge may cause damage.

4

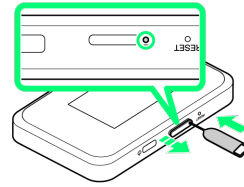Insert Card Tray in SIM Card Slot

🏁 SIM Card is inserted.

· Do not insert SIM Card Tray upside down.
· Insert gently all the way horizontally in direction shown by arrow.
· Push SIM Card Tray firmly where circled (○) so that there is no gap between Wi-Fi router and SIM Card Tray.
· Use Wi-Fi router with SIM Card Tray completely closed.
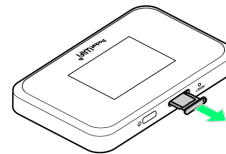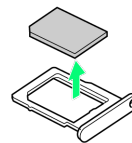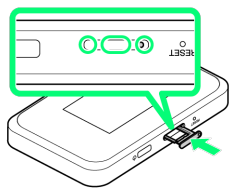
▌ Removing SIM Card

Always power off beforehand.

1

With Display upward, insert SIM Removal Tool in removal hole in SIM Card Tray

· Press firmly and straight until SIM Card Tray ejects.

2

Pull out SIM Card Tray

· With Display upward, pull out SIM Card Tray. Pulling out SIM Card Tray with Display downward or Wi-Fi router held upright can allow SIM Card to fall from SIM Card Tray and become misplaced.
· Do not pull SIM Card Tray forcefully or at an angle. May cause damage. Gently pull SIM Card Tray out horizontally.

3

Remove SIM Card

4

Insert Card Tray in SIM Card Slot

🏁 SIM Card is removed.

· Do not insert SIM Card Tray upside down.
· Insert gently all the way horizontally in direction shown by arrow.
· Push SIM Card Tray firmly where circled (○) so that there is no gap between Wi-Fi router and SIM Card Tray.
· Use Wi-Fi router with SIM Card Tray completely closed.

Charging Battery

Wi-Fi router is not fully charged by default. Charge Wi-Fi router before use.

Wi-Fi router discharges even when not in use. Charge Wi-Fi router before use if it is not in use for a long time. Charge Wi-Fi router regularly to prevent a full discharge if it is not in use for a long time.

For usage times, see "Specifications." Usage times gradually become shorter due to repeated charging/discharging.

⚠ Charging

Charging Conditions

Under low temperatures charging, performance decreases. Use USB Cable and AC Charger (optional) in temperatures between 5°C - 35°C.
USB charging with computers may be unavailable depending on Wi-Fi router temperature.

Use Supplied Accessories or Optional Accessories

Always charge with supplied USB Cable connected to computer or with an AC Charger (optional).

Wi-Fi Router and AC Charger (Optional) Becoming Warm/Hot

Wi-Fi router and AC Charger (optional) may become warm while charging. This is not a malfunction. However, stop using them immediately if they become extremely hot; they may be malfunctioning.

Precaution for Extended Use

Wi-Fi router may become hot while in use or while charging for a long period, especially in high temperatures. Prolonged contact with skin may cause low-temperature burn injuries.

Connecting USB Cable

Confirm that orientation of USB Cable plugs is correct. Connecting in wrong orientation may cause damage or malfunction.

Display while Charging

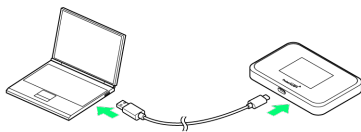Even when power is off, Press Power Key to show animation and battery level.

Using USB (Computer)

Use USB3.0 Cable A to C (SHDHE1) (optional) for charging.

· Make sure to power on computer before charging.
· Depending on computer connection environment, charging may fail.
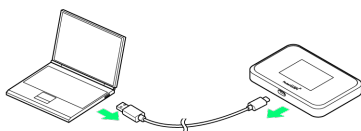
Getting Started

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1

Insert USB Type-C plug of USB3.0 Cable A to C into USB Type-C port of Wi-Fi router, and insert USB3.0 Standard-A plug of USB3.0 Cable into a computer

· When connecting Wi-Fi router to a computer for the first time, driver software is automatically installed.

2

When complete, remove USB3.0 Cable A to C from computer and Wi-Fi router

⚑ Check battery level on Display.
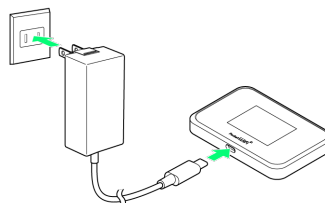
⚠ Charging with Computer

Charging takes longer than with AC Charger (optional). Time required depends on the connected computer.

Charging with AC Charger

AC Charger is an optional accessory. Always use AC Charger specified by SoftBank (for USB PD, USB Type-C quick charge AC Charger [ZSDBAS] (SB-AC20-TCPD)).
This section describes charging method using AC Charger [ZSDBAS].

· See AC Charger (optional) user guide.

1

Insert USB Type-C plug of AC Charger (optional) into USB Type-C port of Wi-Fi router

2

Raise plug on AC Charger (optional) and insert it into AC outlet

⚑ Charging starts.

3

After charging, remove the power plug of AC Charger (optional) from AC outlet, and remove the USB Type-C plug of AC Charger (optional) from Wi-Fi router

⚑ Charging ends.

Charging Mobile Phones or Smartphones

Use Wi-Fi router as a mobile battery. Use USB Conversion Cable C to A (female) (SHDHE2) (optional) and USB3.0 Cable A to C (SHDHE1) (optional).
To change setting for Mobile Charge, see "Setting Power Supply Function."
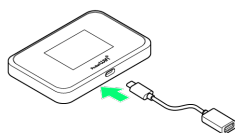
Charging Mobile Phones or Smartphones
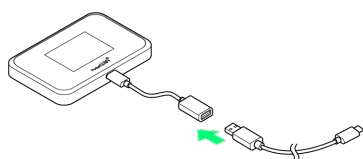
1

Mobile Charge ➔ Supply

2

Insert USB Type-C plug of USB Conversion Cable C to A (female) into USB Type-C port of Wi-Fi router

· Connect the plug so that it is parallel to USB Type-C port of Wi-Fi router.

3

Connect USB3.0 Standard-A socket (female) of USB Conversion Cable C to A and USB3.0 Standard-A plug (male) of USB3.0 Cable A to C

· Check the shape and orientation of the plug end, and connect the plug so that the plug is parallel to the socket.

4

Insert USB Type-C plug of USB 3.0 Cable A to C into USB Type-C port of mobile phone or smartphone

· Connect the plug so that it is parallel to USB Type-C port of mobile phone or smartphone.

5

When complete, remove USB Cable from charged device and Wi-Fi router

🏁 Charging ends.

❗ Supplying Power to Mobile Phones or Smartphones

Power Supply Conditions

At least 30% battery must be remaining for supplying power.
Power supply stops when battery level decreases to the level below the level specified in "Battery capacity to stop supplying" (50% or 30%) in "Mobile Charge" setting on Wi-Fi router. To resume power supply, remove USB Cable from device to be charged and Wi-Fi router, charge Wi-Fi router to the batter level more than the level specified in "Battery capacity to stop supplying" in "Mobile Charge" setting. For "Battery capacity to stop supplying" setting, see "Setting Power Supply Function."
If power supply fails even when battery level is 50% or 30% or more, restart Wi-Fi router and try again.
Wi-Fi router cannot charge mobile phones or smartphone while Wi-Fi router is charged by AC Charger (optional) or USB Cable.

Wi-Fi Router Becoming Warm/Hot

Wi-Fi router may become warm while supplying power. This is not a malfunction. However, stop using them immediately if they become extremely hot; they may be malfunctioning.

Connecting USB Cable

Confirm that orientation of USB Cable plugs is correct. Connecting in wrong orientation may cause damage or malfunction.
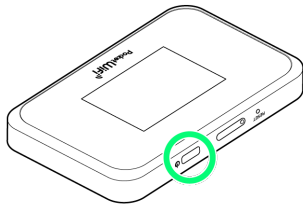
Cancellation of Power Supply by Protective Function

If current that exceeds the current that Wi-Fi router supplies (1A) is requested by mobile phone or smartphone, power supply function may be disabled by protective function of Wi-Fi router.

Power On/Off

Powering On

1

Power Key (Long Press)

Lock Screen appears and WLAN function is enabled when powered on. Wi-Fi router automatically connects to the Internet.

· When Wi-Fi router connects to mobile network, 🌐 (mobile networks connected) illuminates.
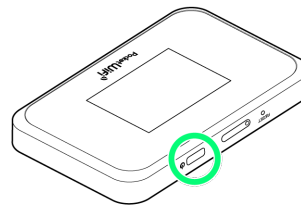
2

Flick upward on Display

Home Screen appears.

· When Lock Screen PIN for unlocking screen is set, the password entry screen appears. For unlocking screen by entering password, see "Entering Password to Unlock Screen."

· When PIN verification is set to SIM Card, PIN entry screen appears. See "PIN Verification (Wi-Fi Router) " or "PIN Verification (Web UI)" to enter PIN. For PIN verification settings, see "PIN Verification."

Power Off

1

Power Key (Long Press)

2

Power off

Since Fast Boot is on, this will consume a little bit of power while the power is OFF, but device can start up more quickly. Power Off?

| Cancel | Power off | Reboot |

Power is off.

Connecting with WLAN

WLAN (Wi-Fi)

⚙ WLAN (Wi-Fi)

Advanced Settings

Change WLAN settings as required. For details, see
"Setting Wi-Fi ."

Simultaneous Connection

Use Wi-Fi router to connect up to 10 WLAN devices
simultaneously.
In addition, wireless LAN and USB connections can be
simultaneously used, in that case the maximum number
of wireless LAN connections is 10 devices, and one USB
connection which totals 11 devices.

Automatic Updates for Optimizing Wi-Fi Connection

When connected by Wi-Fi, settings for optimizing the
connection are sometimes automatically received/updated.

⚠ Cautions for WLAN Usage

Security

For added security, change default SSID (network name)
and password (Security Key: WPA Key or WEP Key).

Communication Speed

When Multi-SSID is enabled, maximum communication
speed may decrease depending on number of WLAN devices
connected.

Overview

Wi-Fi router supports IEEE 802.11 a/b/g/n/ac standards.
Connect WLAN devices (computer, etc.) via WLAN for wireless
data transfers.
If your Wi-Fi router supports WPS, WLAN connection settings
can easily be configured.
Enter Wi-Fi router's SSID (network name) and password
(Security Key: WPA Key or WEP Key) to connect non-WPS-
compatible WLAN devices.
For details on SSID and password (Security Key), see "SSID and
Password (Security Key)."

Activating WLAN Function

Power on to connect to the Internet automatically.

Connecting to 4G/LTE/3G

1

Power Key (Long Press)

🏁 Lock Screen appears and WLAN function is enabled when
powered on. Wi-Fi router automatically connects to the
Internet.

· When Wi-Fi router connects to mobile network, ⊕ (mobile
networks connected) illuminates.

Connecting Windows PC

Connect a Windows PC to connect to the Internet.

⚠ SSID (Network Name) and Password (Security Key: WPA Key or WEP Key)

For details on SSID and password (Security Key), see "SSID and Password (Security Key)."
Default SSID is shown in alphanumerics with a leading "809SHa-" or "809SHb-."
If they are changed, use set SSID and password (Security Key).
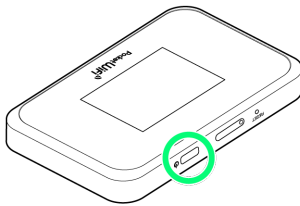The networks on Display other than SSID set on Wi-Fi router are wireless LAN signals received from nearby. Do not connect to other neighboring WLAN network.

Windows 10

This section describes setup operations with screenshots and steps for "SSID" using "WPA2" encryption method on Windows 10.

1

Power Key (Long Press)

🏁 Lock Screen appears and WLAN function is enabled when powered on. Wi-Fi router automatically connects to the Internet.

· When Wi-Fi router connects to mobile network, 🌐 (mobile networks connected) illuminates.

2

Activate PC WLAN function

· Method for enabling PC WLAN varies by model. Contact PC manufacturer.

3

In task tray, click 🖼

🏁 "Network settings" appears.

4

Select Wi-Fi router's "SSID" ➡ Connect

· When Wi-Fi router's "SSID" is not shown, press Power Key to exit Sleep mode.

5

Enter password (Security Key) ➡ Next

🏁 If connection is successful, WLAN connection counter number on Display increases by one (e.g. 🔲 ➡ 🔲).
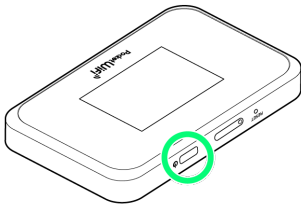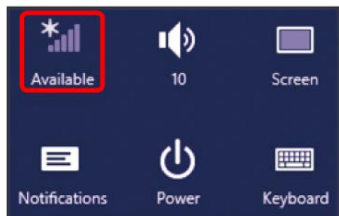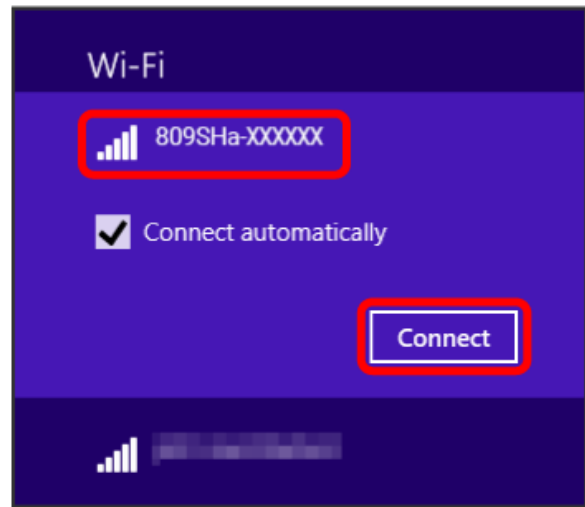
· Confirmation message for sharing PC may appear; do not set it. For sharing PC, see Windows Help.

Windows 8.1

This section describes setup operations with screenshots and steps using "WPA2" encryption method on Windows 8.1.

1

Power Key (Long Press)

🏁 Lock Screen appears and WLAN function is enabled when powered on. Wi-Fi router automatically connects to the Internet.

· When Wi-Fi router connects to mobile network, 🌐 (mobile networks connected) illuminates.

2

Activate PC WLAN function

· Method for enabling PC WLAN varies by model. Contact PC manufacturer.

3

Move pointer to upper right or lower right (for touchscreen, Swipe from right end) ➡ In Charm, ⚙ ➡ 📶

4

Select Wi-Fi router's "SSID" ➡ Connect

· When Wi-Fi router's "SSID" is not shown, press Power Key to exit Sleep mode.

5

Enter password (Security Key) ➡ Next

🏁 If connection is successful, WLAN connection counter number on Display increases by one (e.g. 📟 ➡ 📟).

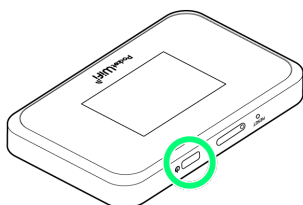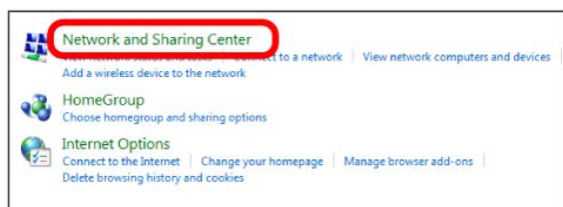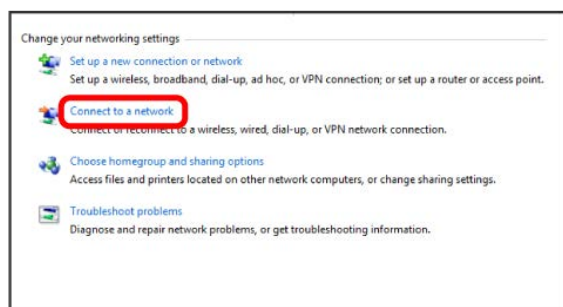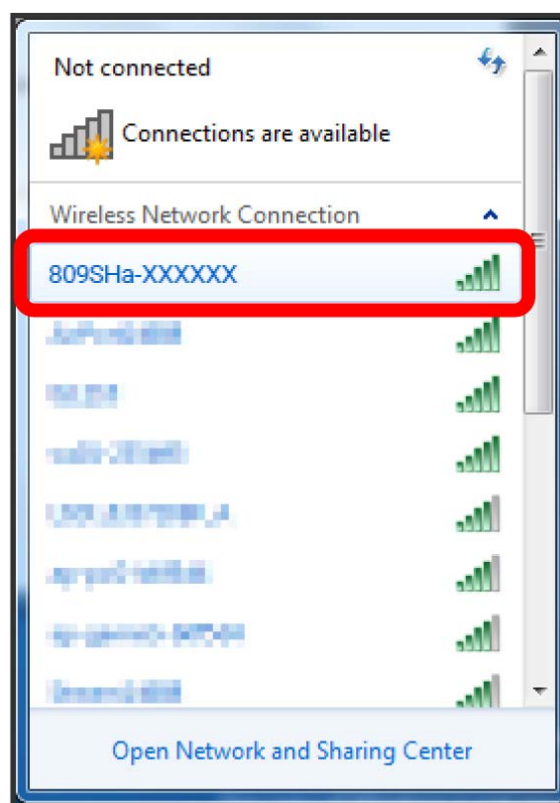· Confirmation message for sharing PC may appear; do not set it. For sharing PC, see Windows Help.

Windows 7

This section describes setup operations with screenshots and steps using "WPA2" encryption method on Windows 7.

1

Power Key (Long Press)

🏴 Lock Screen appears and WLAN function is enabled when powered on. Wi-Fi router automatically connects to the Internet.

・When Wi-Fi router connects to mobile network, 🌐 (mobile networks connected) illuminates.

2

Activate PC WLAN function

・Method for enabling PC WLAN varies by model. Contact PC manufacturer.

3

Start ➡ Control Panel ➡ Network and Internet ➡ Network and Sharing Center

4

Connect to a network

5

Select Wi-Fi router's "SSID" ➡ Connect

・When Wi-Fi router's "SSID" is not shown, press Power Key to exit Sleep mode.

6

Enter password (Security Key) ➡ OK

🏁 If connection is successful, WLAN connection counter number on Display increases by one (e.g. 🔲 ➡ 🔲).

Connecting Mac

Connect a Mac to connect to the Internet.

⚠ **SSID (Network Name) and Password (Security Key: WPA Key or WEP Key)**

For details on SSID and password (Security Key), see "SSID and Password (Security Key)."
Default SSID is shown in alphanumerics with a leading "809SHa-" or "809SHb-."
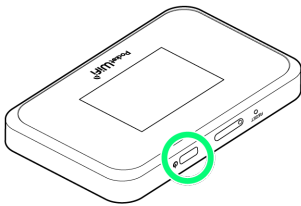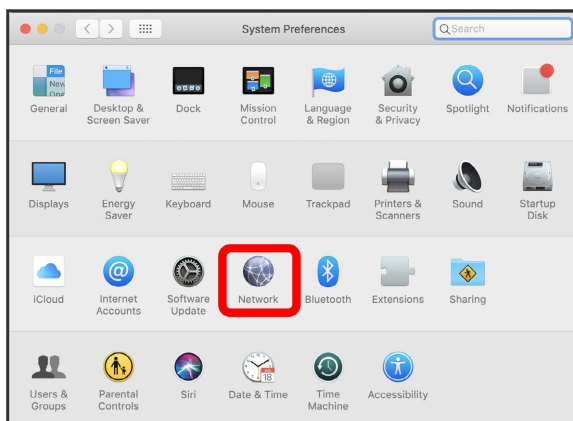If they are changed, use set SSID and password (Security Key).
The networks on Display other than SSID set on Wi-Fi router are wireless LAN signals received from nearby. Do not connect to other neighboring WLAN network.

Mac

This section describes setup operations with screenshots and steps using "WPA2" encryption method on macOS Mojave 10.14.6.

1

Power Key (Long Press)

🏁 Lock Screen appears and WLAN function is enabled when powered on. Wi-Fi router automatically connects to the Internet.

· When Wi-Fi router connects to mobile network, 🌐 (mobile networks connected) illuminates.
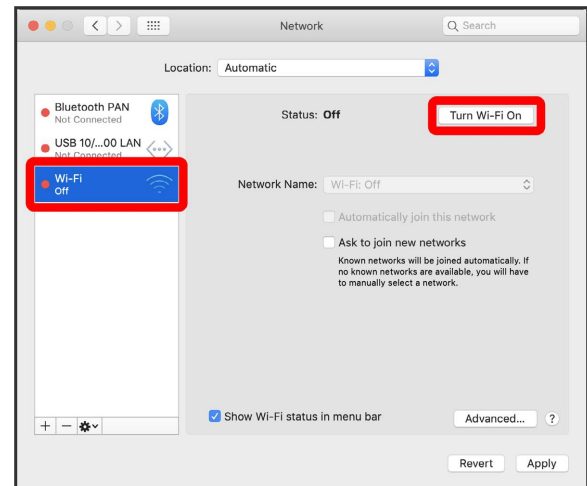
2

In Apple menu, System Preferences... ➡ Network
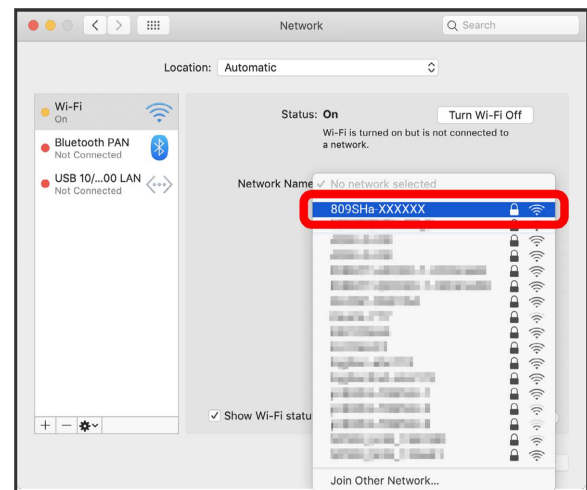

3

Wi-Fi ➡ Turn Wi-Fi On

🏁 WLAN function on Mac is enabled.

4

In "Network Name" pulldown list, select Wi-Fi router's "SSID"
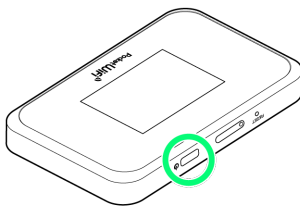

· When Wi-Fi router's "SSID" is not shown, press Power Key to exit Sleep mode.

5

Enter Security Key in "Password" ➡ Join

🏁 If connection is successful, WLAN connection counter number on Display increases by one (e.g. 🔲 ➡ 🔲).

Connecting iPhone/iPad

Connect an iPhone/iPad to connect to the Internet.

> ⚠️ **SSID (Network Name) and Password (Security Key: WPA Key or WEP Key)**
>
> For details on SSID and password (Security Key), see "SSID and Password (Security Key)."
> Default SSID is shown in alphanumerics with a leading "809SHa-" or "809SHb-."
> If they are changed, use set SSID and password (Security Key).
> The networks on Display other than SSID set on Wi-Fi router are wireless LAN signals received from nearby. Do not connect to other neighboring WLAN network.

iPhone

This section describes setup operations with screenshots and steps using "WPA2" encryption method on iOS 12 running on iPhone.
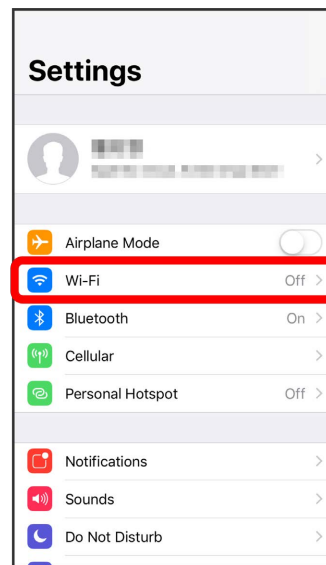
1

Power Key (Long Press)

🏁 Lock Screen appears and WLAN function is enabled when powered on. Wi-Fi router automatically connects to the Internet.

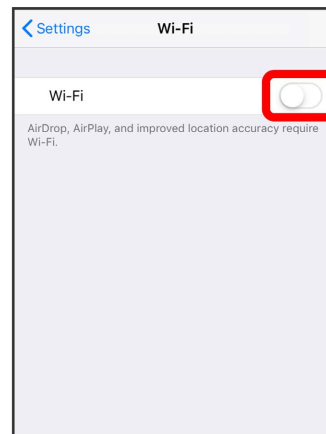· When Wi-Fi router connects to mobile network, 🌐 (mobile networks connected) illuminates.

2

Settings ➡️ Wi-Fi

3

Turn on Wi-Fi

🏁 WLAN function on iPhone is enabled.
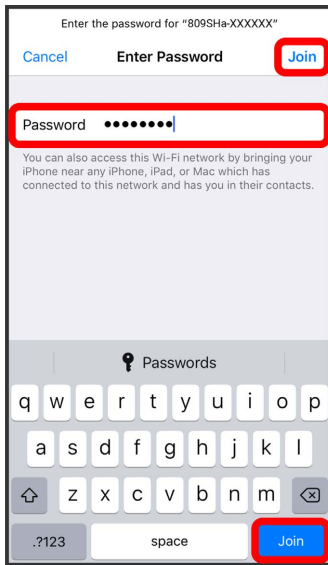
4

In "CHOOSE A NETWORK..." list, Tap Wi-Fi router's "SSID"

· When Wi-Fi router's "SSID" is not shown, press Power Key to exit Sleep mode.

5

Enter password (Security Key) in "Password" ➜ Connect
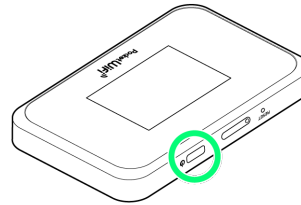
or Join

🏁 If connection is successful, WLAN connection counter number on Display increases by one (e.g. ▦ ➜ ▦).

iPad

This section describes setup operations with screenshots and steps using "WPA2" encryption method on iOS 12 running on iPad.
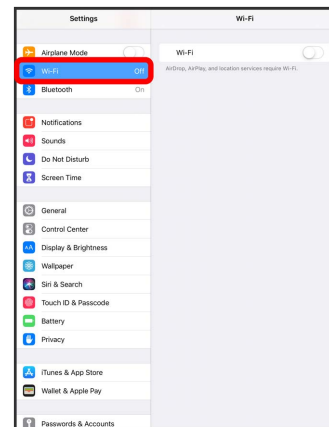
1

Power Key (Long Press)

🏁 Lock Screen appears and WLAN function is enabled when powered on. Wi-Fi router automatically connects to the Internet.

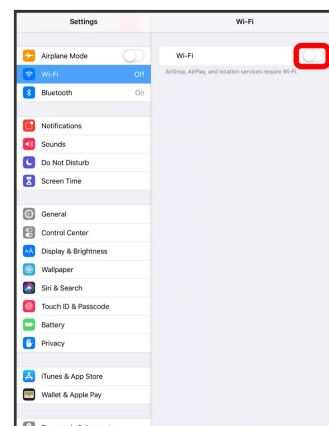・When Wi-Fi router connects to mobile network, 🌐 (mobile networks connected) illuminates.
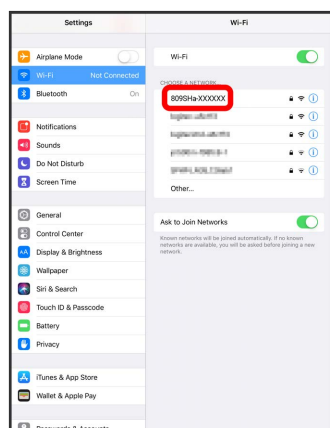
2

Settings ➜ Wi-Fi

3

Turn on Wi-Fi

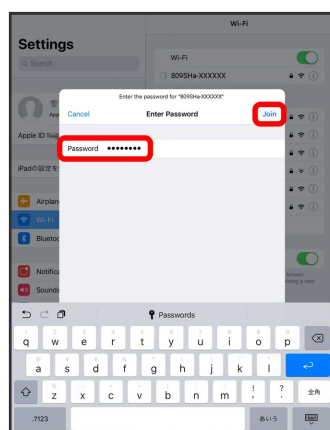🏁 WLAN function on iPad is enabled.

4

In "CHOOSE A NETWORK..." list, Tap Wi-Fi router's "SSID"

· When Wi-Fi router's "SSID" is not shown, press Power Key to exit Sleep mode.

5

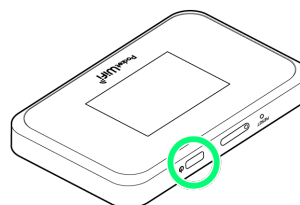Enter password (Security Key) in "Password" ➔ Join

🏁 If connection is successful, WLAN connection counter number on Display increases by one (e.g. 🔲 ➔ 🔲).

Connecting iOS Device using QR Code

Use application on iPhone/iPad to scan QR code on Wi-Fi router's Display and connect.
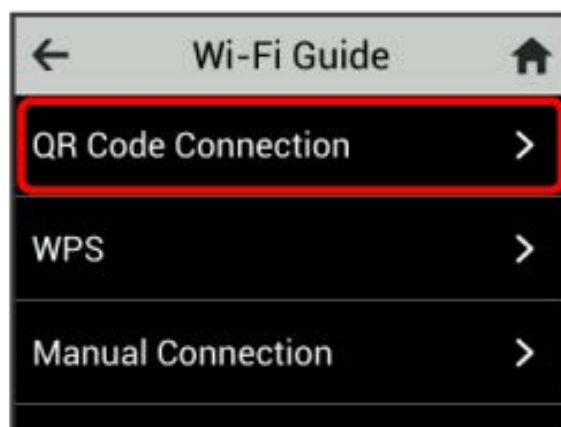
1

Power Key (Long Press)

🏁 Lock Screen appears and WLAN function is enabled when powered on. Wi-Fi router automatically connects to the Internet.

· When Wi-Fi router connects to mobile network, 🌐 (mobile networks connected) illuminates.

2

Wi-Fi Guide ➔ QR Code Connection

3

Activate iOS device ➔ Activate Camera

4

Read the QR code on Wi-Fi router's Display using iOS device

5

Follow the instructions of Camera to connect to Wi-Fi router

🏁 If connection is successful, WLAN connection counter number on Display increases by one (e.g. 🔲 ➔ 🔲).

Connecting with WLAN

💡 Reading QR Code

Operating requirements of QR code connection are as follows:
- iOS 11 or later

Connecting Android Devices

Connect a general Android device to connect to the Internet.

⚠ SSID (Network Name) and Password (Security Key: WPA Key or WEP Key)

For details on SSID and password (Security Key), see "SSID and Password (Security Key)."
Default SSID is shown in alphanumerics with a leading "809SHa-" or "809SHb-."
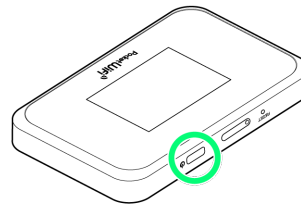If they are changed, use set SSID and password (Security Key).
The networks on Display other than SSID set on Wi-Fi router are wireless LAN signals received from nearby. Do not connect to other neighboring WLAN network.

Connecting Android Devices

This section describes setup operations with screenshots and steps using "WPA2" encryption method on Android 9. Some operations and screenshots vary by security method. Operation steps vary by Android device. For details, see Android device user guide.

1

Power Key (Long Press)

🏁 Lock Screen appears and WLAN function is enabled when powered on. Wi-Fi router automatically connects to the Internet.

· When Wi-Fi router connects to mobile network, 🌐 (mobile networks connected) illuminates.

2

Activate Android device ➡ In menu, Settings ➡ Wi-Fi

3

Turn on Wi-Fi

🏁 WLAN function on Android device is enabled.

4

Tap Wi-Fi router's "SSID"

· When Wi-Fi router's "SSID" is not shown, press Power Key to exit Sleep mode.

5

Enter password (Security Key) in "Password" ➔ Connect

🏁 If connection is successful, WLAN connection counter number on Display increases by one (e.g. [0] ➔ [1]).

Connecting Android Device using QR Code

Use application on Android device to scan QR code on Wi-Fi router's Display and connect.

1

Power Key (Long Press)

🏁 Lock Screen appears and WLAN function is enabled when powered on. Wi-Fi router automatically connects to the Internet.
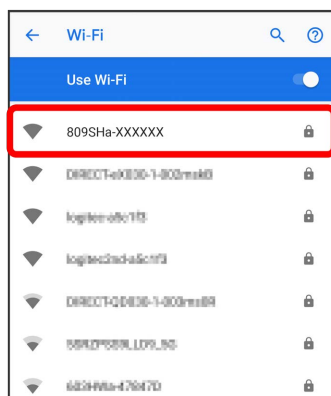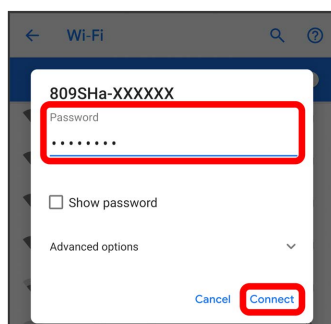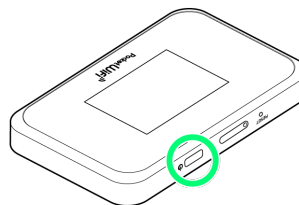
· When Wi-Fi router connects to mobile network, 🌐 (mobile networks connected) illuminates.

2

Wi-Fi Guide ➔ QR Code Connection

3

Activate Android device ➔ Activate the QR code application

4

Read the QR code on Wi-Fi router's Display using Android device

5

Follow the instructions of the QR code application to connect to Wi-Fi router

🏁 If connection is successful, WLAN connection counter number on Display increases by one (e.g. [ ] ➔ [ ]).

QR Code Application

Use a QR code application, including "お父さんQR", etc.
Install it on an Android device before reading.
Operating requirements of QR code connection are as
follows:
- Android 4.0.3 or later (using お父さんQR)

Connecting Wi-Fi Compatible Devices

⚠ SSID (Network Name) and Password (Security Key: WPA Key or WEP Key)

For details on SSID and password (Security Key), see "SSID and Password (Security Key)."
Default SSID is shown in alphanumerics with a leading "809SHa-" or "809SHb-."
If they are changed, use set SSID and password (Security Key).
The networks on Display other than SSID set on Wi-Fi router are wireless LAN signals received from nearby. Do not connect to other neighboring WLAN network.

Wi-Fi Compatible Device

This section describes setup operations with steps using "WPA/WPA2" encryption method. Some operations vary by encryption method. For details, see the user guide of the Wi-Fi compatible devices to be connected.
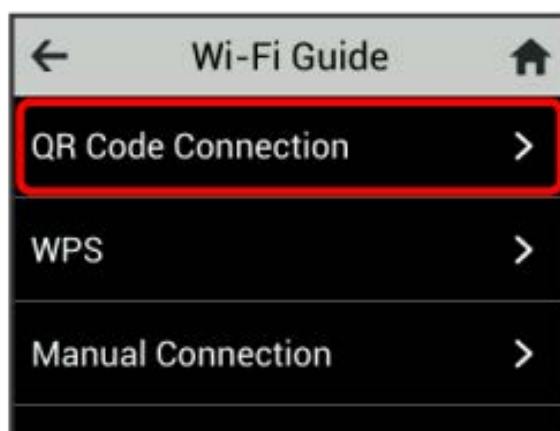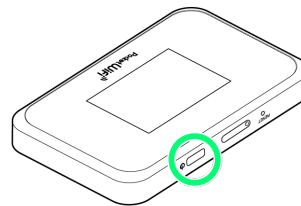
1

Power Key (Long Press)

🏁 Lock Screen appears and WLAN function is enabled when powered on. Wi-Fi router automatically connects to the Internet.

・When Wi-Fi router connects to mobile network, ⊕ (mobile networks connected) illuminates.

2

Enable the Wi-Fi functions of Wi-Fi compatible devices

3

Search for access points via Wi-Fi compatible devices

4

Select Wi-Fi router's SSID from shown access points

5

Enter password (Security Key) ➡ Save settings

🏁 If connection is successful, WLAN connection counter number on Display increases by one (e.g. 🔢 ➡ 🔢).

WPS Supported WLAN Device

⚠ Precautions for Using WPS Function

SSID Stealth

When SSID stealth is activated, WPS is unavailable. For SSID stealth, see "Wi-Fi Basic Settings (SSID A)."

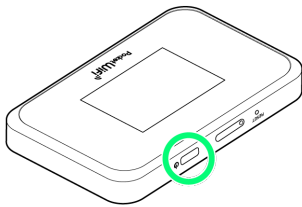### Security Method

When Security is set to WEP, connecting WLAN device by WPS is not available.

▌ WPS Supported WLAN Device

1

Power Key (Long Press)

🏁 Lock Screen appears and WLAN function is enabled when powered on. Wi-Fi router automatically connects to the Internet.

· When Wi-Fi router connects to mobile network, 🌐 (mobile networks connected) illuminates.

2

Enable WLAN function on WLAN device, then prepare for WPS settings as required

· Method of setting WPS function varies by device. See WLAN device user guide etc.

3

Wi-Fi Guide ➡ WPS

4

Start WPS

🏁 Wi-Fi-router is on standby to accept WLAN device connection.

5

While following window appears (within 120 seconds), set up WPS connection on WLAN device

6

To make other settings on WLAN device, follow the onscreen instructions

🏁 If connection is successful, WLAN connection counter number on Display increases by one (e.g. 🔲 ➡ 🔲).

Connecting with USB Cable (Windows)

USB Connection with a Windows PC

Overview

Wi-Fi router automatically connects to the Internet when powered on. Connect with PC via USB Cable to enable data communication.

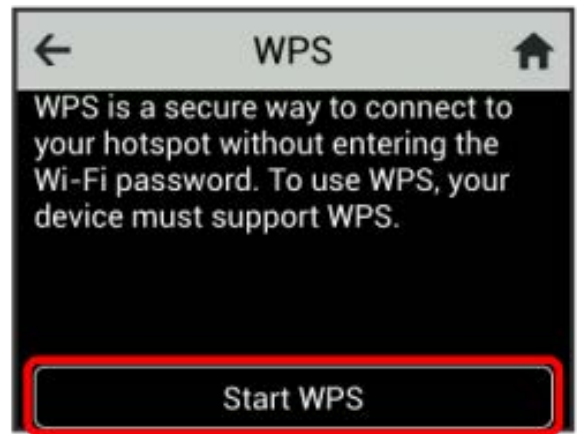# Device Recognition/Removal on Windows PC

Device Recognition (Windows)

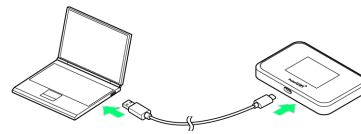Upon connecting the first time, the device driver is installed automatically.

1

Power on PC

2

Insert USB Cable into Wi-Fi router USB Type-C Port, and USB plug into PC.

PC should recognize Wi-Fi router within a few seconds.
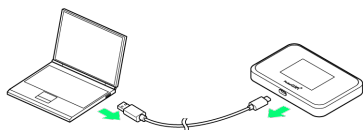
Device Removal (Windows)

· Complete any data uploads/downloads, etc. before removing Wi-Fi router.

1

Check that any data uploading/downloading is completed

2

Remove Wi-Fi router

🏁 Removal is complete.

⚠ Notes on Removal

Standby/Hibernation

Wi-Fi router may malfunction if PC enters standby (suspend/resume) or hibernation with it connected. Be sure to remove Wi-Fi router before leaving a PC unattended, etc. Wi-Fi router may malfunction if connected before Mac starts/restarts. Remove Wi-Fi router before starting/restarting PC.

Web UI

Exit Web UI before removing Wi-Fi router. Do not remove Wi-Fi router during transmissions.

Installing/Uninstalling Driver (Windows)

⚠ Cautions for Installation/Uninstallation

Removal of Wi-Fi Router

Do not remove Wi-Fi router during installation/uninstallation. May cause installation/uninstallation failure, system malfunction or other system errors.

Administrator Privileges

Log in to an account with administrator privileges.

Installation and Uninstallation

Upon connecting the first time, the device driver on PC is installed automatically. Manual installation/uninstallation is not required.

💡 Network Setting

When Wi-Fi router is connected to a computer for the first time, set whether to share the computer on network (Home/Work/Public etc.).
Click network icon on task tray ➡ Click connected network ➡ Click network on Ethernet screen ➡ Follow the onscreen instructions to configure network profile
· When a popup screen appears after connecting Wi-Fi router to computer, follow the onscreen instructions.

Connecting with USB Cable (Mac)

USB Connection with Mac

Overview

Wi-Fi router automatically connects to the Internet when powered on. Use a Mac connected to Wi-Fi router with USB Cable to transfer data.

Device Recognition/Removal on Mac

⚠ Notes on Removal

Before Entering Sleep Mode

Wi-Fi router may malfunction if Mac enters Sleep mode with it connected. Be sure to remove Wi-Fi router before leaving Mac unattended, etc. Wi-Fi router may malfunction if connected before Mac starts/restarts. Remove Wi-Fi router before starting/restarting Mac.

Web UI

Exit Web UI before removing Wi-Fi router. Do not remove Wi-Fi router during transmissions.

Device Recognition (Mac)

1

Power on Mac

2

Connect USB Type-C plug to USB Type-C port of Wi-Fi router, and connect USB plug into Mac

🏁 Mac should recognize Wi-Fi router within a few seconds.

Remove Wi-Fi router from Mac

1

Check that any data uploading/downloading is completed

2

Remove Wi-Fi router from Mac

🏁 Removal is complete.

Installing/Uninstalling Driver (Mac)

Installation and Uninstallation

Upon connecting the first time, the device driver on Mac is installed automatically. Manual installation/uninstallation is not required.

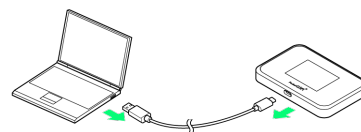# Settings (Using Router Touch Menu)

Touch Menu

Wi-Fi router uses a touchscreen-type Display. Tap Touch Menu icons for settings and notifications.

Touch Menu

Touch Menu icons are as follows.

Touch Menu Icons

For description of icons in Touch Menu, see "Touch Menu Icons."

Showing/Setting Data Usage

Set to show/hide data traffic volume for mobile network. Also set maximum data traffic volume, reset date, etc.
Data traffic is an estimation. May differ from actual traffic volume. For actual traffic volume, contact administrator or Business Call Center when Wi-Fi router is under a corporate subscription. When Wi-Fi router is under an individual subscription, see Customer Service.

Checking Data Traffic Volume

Show accumulated data traffic at the moment from start of use or reset.

1

Data Usage

Show accumulated data traffic at the moment from start of use or reset.
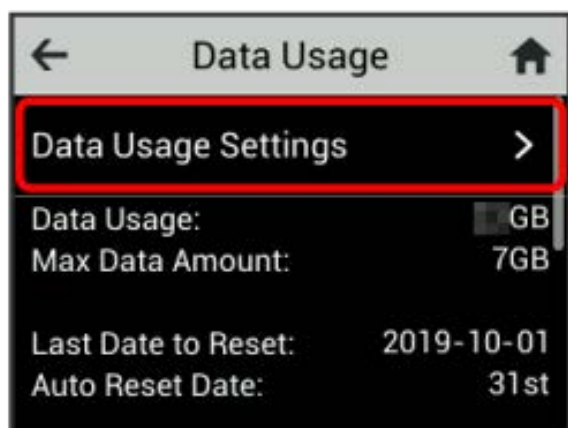
Showing Data Traffic on Home Screen and Lock Screen

1

Data Usage

2

Data Usage settings

3

Checkmark "Show usage on lock screen and icon"

🏁 Setting is modified.

· Data traffic volume appears on 📊 (bar icon) with three-digit numbers with decimal places rounded off.

Setting Maximum Traffic

Set monthly data traffic volume. When data traffic volume exceeds the set volume, notification appears with icon, etc.

· When data traffic volume is set to appear on Home Screen, 📊 (bar icon) appears. When data traffic volume exceeds the set maximum volume, data traffic icon changes to 📕 (red bar icon).
· Maximum traffic does not mean a limit on data communication. Use this volume as a measure of usage.

1

Data Usage

2

Data Usage settings

3

Tap number in "Max Data Amount"

· Tap `GB` (GB) to change the unit of maximum data traffic volume to `MB` (MB).

4

Enter number for maximum traffic ➡ `OK`

🏁 Maximum traffic is set.

· Enter value number between 1 and 999.

Setting Auto Reset Date

Set date of month for automatically resetting accumulated data traffic.
It is reset at the timing which changes on the next day from set date.

1

`Data Usage`

2

`Data Usage settings`

3

Tap number in "Date to Reset Data"

4

Enter day for auto reset date ➡ OK

🏁 Auto reset date is set.

· Enter value number between 1 and 31.
· If 31 is set, data usage is reset at the end of the month.

Resetting Data Traffic

Reset shown data usage.

1

Data Usage

2

Data Usage settings

3

Reset

🏁 Data traffic is reset.

Checking Information of Devices Connected to Wi-Fi Router

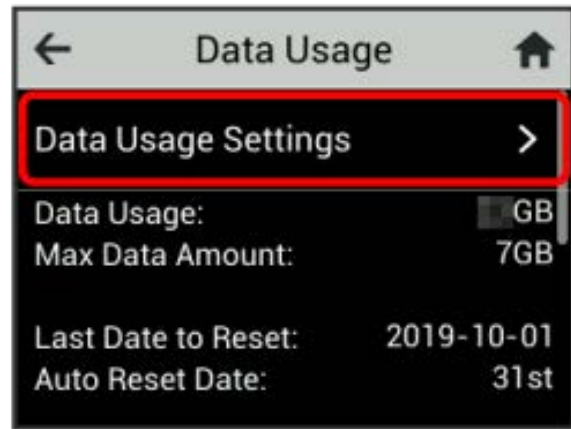Check information of devices connected to Wi-Fi router, such as computers, smartphones, and games.

Checking Information of Devices Connected to Wi-Fi Router

1

Client List

▨ MAC address and IP address for devices connected to Wi-Fi router are shown.

Checking Notifications

Wi-Fi router receives available notifications.

Checking Notifications

1

Notifications

2

Tap Notification to delete

▨ Check notification.

Deleting Notifications

1

Notifications

2

Tap notification to delete

3

Delete

4

OK

Notification is deleted.

Settings (Using Router Touch Menu)

809SH

Selecting and Deleting Notifications

1

Notifications

2

Checkmark notifications to delete

· Checkmark checkbox at top of screen to select all.

3

🗑

4

OK

🏁 Selected notifications are deleted.

Setting SSID and Authentication Method

Set Wi-Fi router's SSID (network name), password (Security Key: WPA key or WEP key), authentication method and encryption method for WLAN connection.
Also, enable/disable Multi SSID (SSID B) for using two SSIDs.

Setting SSID and Password (Security Key)

1

Wi-Fi Guide

2

Manual Connection

3

SSID A

4

Edit

5

Tap SSID

6

Enter SSID ➡ OK

7

Tap password

8

Enter password ➡ OK

🏁 Entered SSID and password (Security Key) are set.

Setting Authentication Method

Select authentication method for WLAN connection.
Authentication method in the table below are available.

· Authentication Method

Item	Description
Open	Authentication is not performed.
WEP	Authentication is performed using WEP key.
WPA2-PSK (AES)	Authentication is performed using WPA key.
WPA/WPA2-PSK (AES/ TKIP)	Authentication is performed using WPA key.

1

Wi-Fi Guide

2

Manual Connection

3

SSID A

4

Edit

5

Tap authentication method

6

Tap button of authentication method to set

🏁 Setting is modified.

· Notification informing that password (Security Key) needs changing appears depending on selected authentication method. Tap OK and enter password (Security Key) on password (Security Key) entry screen.

Enabling Multi SSID (SSID B) Function

Set Multi SSID (SSID B) to ON and make basic WLAN settings for SSID B.

· When Multi-SSID is enabled, communication speed may decrease depending on number of WLAN devices connected.

1

Wi-Fi Guide

2

Manual Connection

3

SSID B

4

OFF for "Enabled"

🏁 SSID B is set to ON .

5

Edit

6

Set SSID and password (Security Key), authentication method, and encryption method as set on SSID A

🏁 SSID B is available.

· For authentication methods, see "Setting SSID and Authentication Method."

Setting Power Supply Function

Set minimum battery level on which power supply to another device is stopped when using Wi-Fi router as a mobile battery.

Setting Power Supply Function

1

Mobile Charge

2

50% / 30% for "Battery capacity to stop supplying"

🏁 Battery level is set on which power supply is stopped.

Other Settings

Set various settings such as roaming, Lock Screen PIN for unlocking screen, Display brightness, Sleep mode, Wi-Fi communication standard, software update, and erasing notifications icons.

Setting Network

Set mobile network.

1

Settings

2

Mobile Network

3

Network Mode

4

Tap button of mode to set

🏁 Network mode is set.

Setting APN Profile

Select APN profile.

· [法人]閉域網契約専用APN is a common APN dedicated to closed network service "Network/VPN gateway secure mobile access" offered by SoftBank Corp. for corporate customers. A contract is required to use "Network/VPN gateway secure mobile access." For details on "Network/VPN gateway secure mobile access," see https://www.softbank.jp/biz/cloud/sdngateway/secure_mobile_ac/.

1

Settings

2

Mobile Network

3

APN Profile Selection

4

Tap button of APN profile to set

🏁 APN profile is set.

International Roaming

Enable International data roaming.

1

Settings

2

Mobile Network

3

International Roaming

4

OFF on "Setting"

International Roaming is set to ON and roaming overseas is available.

· Note that charges may be expensive when used overseas.

Setting Wi-Fi ON/OFF

Switch ON/OFF of Wi-Fi. Only USB connection is available when set to OFF.

1

Settings

2

Wi-Fi Settings

3

ON for "Wi-Fi"

Wi-Fi is set to OFF .

Setting Wi-Fi Communication Standard

If you are unable to connect with WLAN at the time of purchase, you may be able to do so by changing Wi-Fi communication standard setting.

1

Settings

2

Wi-Fi Settings

3

Wi-Fi Mode

4

Tap button of communication standard to set

🏁 The desired Wi-Fi communication standard is set.

Screen Lock

Set password entry for unlocking the screen.

1

Settings

2

Screen Lock

3

OFF on "Lock"

🏁 "Lock" is set to ON .

4

Enter four-digit password ➡ OK

5

Re-enter four-digit password ➡ OK

🏁 Unlocking password is set.

· When password is set, password entry screen appears when unlocking screen. For unlocking screen by entering password, see "Entering Password to Unlock Screen."

· To change the set password, in step **3** screen, tap Modify Passcode and enter current password, then set a new password.

Entering Password to Unlock Screen

1

Flick upward on Display

2

Enter four-digit password ➜ OK

🏁 Home Screen appears.

· If password is incorrect, re-enter prompt appears.
· If you forget password, reset Wi-Fi router to disable Lock Screen by password. To reset Wi-Fi router, see "Front/Top/Bottom" (for Touch Menu) or "Resetting Wi-Fi Router" (for Web UI). By resetting, note that in addition to password for Lock Screen, all Wi-Fi router settings return to their default state.

Changing Display Brightness

Set screen brightness.

1

Settings

2

Display

3

Tap the bar on the position of brightness to set

🏁 Display brightness changes to desired brightness.

· Display Brightness has 10 levels.

Changing Backlight Time

Set backlight timeout when there is no operation of Wi-Fi router.

1

Settings

2

Display

3

Tap number of seconds for "Display Timeout"

4

Tap button of seconds to set

Display Timeout changes to desired seconds.

Setting Language

Select language to apply on Display.

1

Settings

2

言語設定

3

Tap button of language to set

🏁 The desired language is set.

Setting Time

Change time format (24-hour format/12-hour format) and time zone.

1

Settings

2

Time Settings

3

ON / OFF on "Use 24-hour format"

Time format is changed to 24-hour format or 12-hour format.

· To change time zone, tap ON for "Automatic time zone", and select the desired time zone.

Updating Software

Update software.

1

Settings

2

Software Update

3

Software Update

1

4

Confirm message ➡ OK

🏁 Checks for the latest software. If software update is found, update software.

· When software in use is the latest version, "There is no software to update." appears.

💡 Software Update

Packet communication charges are not applied for software update.
While software is updated, other functions are disabled.
Software update is not available during international roaming.

Sleep Mode

When operation is not performed for a certain period of time with no connection to any WLAN device or when not charging, Wi-Fi router goes into Sleep mode for energy-saving. Set time period before going into Sleep mode. 5 minutes are set by default. And set the mode to OFF not to go into Sleep mode.

1

Settings

2

Sleep Mode

3

Tap time period for "Timeout"

· To disable Sleep mode, tap ON to switch to OFF .
· When Sleep mode is set to OFF , More Battery is consumed and the standby time is shortened.

4

Tap button of minutes to set

Wi-Fi router goes into Sleep mode at set time.

Setting USB Communication Standard

Set USB communication standard.

1

Settings

2

USB Mode

3

Confirm message ➔ USB 3.0

4

Tap button of USB communication standard to set

🏁 The desired USB communication standard is set.

· To change USB mode, tap YES to restart Wi-Fi router.

Setting Fast Boot

Set Fast Boot to ON and shorten the time to turn on Wi-Fi router.
Set to ON by default. When Quick Boot is ON, Wi-Fi router consumes a small amount of battery even when the power is off.

1

Settings

2

Fast Boot

3

OFF on "Fast Boot"

🏁 "Fast Boot" is set to ON .

Checking Web UI

Access setting page (Web UI) on web browser to make detailed settings. Check URL for Web UI, Login password, etc.

1

Settings

2

Advanced Settings

🏁 URL and QR code for Web UI are shown.

· Read QR code using a smartphone etc. to access Web UI from web browser of the smartphone.

Checking Battery Status

Check charging performance status of Internal Battery.

1

`Settings`

2

`Battery Status`

🏁 Charging performance status of Internal Battery appears.

Clearing Notification Icons for Data Traffic

Clear present Notification icons for data traffic. Notification icons appear when Wi-Fi router is under an individual subscription.

1

`Settings`

2

`Notice Icon Delete`

3

`Data Volume`

4

Yes

Is the notice icon of use data volume on display eliminated?

No   Yes

Shown Notification icons are cleared.

· This step clears only Notification icons shown on Status Bar. "Usage settings" icon on Touch Menu is not cleared.

Checking Wi-Fi Router Information

Check various information of Wi-Fi router such as Web UI URL, phone number, software version, etc.

Checking Wi-Fi Router Information

Check the following information.

Item	Description
Phone Number	Phone number saved in SIM Card
IMEI	Serial number of Wi-Fi router
LAN Domain	URL for accessing Web UI
Software Version	Current software version
Hardware Version	Current hardware version
Battery Serial Number	Serial Number of Battery
Certificate	Various standards for which Wi-Fi router is certified

1

About Device

.ıll 4G SoftBank ⊕ 100%

About Device

• •

Information of Wi-Fi router appears.

Operation for Setting Data Traffic

Make settings for data traffic when Wi-Fi router is under an individual subscription.

Reserving End of Speed Slowdown (on Pop-up Screen)

When a pop-up notice appears for an approaching slowdown in communication speed, make a reservation to have speed slowdown ended.

1

Check information on pop-up screen ➔ Yes

2

Tap data traffic volume for which speed slowdown is ended

3

Setting

4

OK

⚑ Making of reservation is complete.

Reserving End of Speed Slowdown (on Touch Menu)

Make a reservation to have speed slowdown ended on Touch Menu.

1

Data volume

2

Tap data traffic volume for which speed slowdown is ended

3

Setting

4

OK

Making of reservation is complete.

Canceling Reserved End of Speed Slowdown

Cancel a reserved end of speed slowdown.

1

Data volume

2

Reservation is canceled

3

Setting

4

OK

Cancellation of end reservation is complete.

Ending Speed Slowdown (on Pop-up Screen)

When a pop-up notice appears for the start of a slowdown in communication speed, end the speed slowdown and have communication speed returned to normal speed.

1

Check information on pop-up screen ➡ Yes

2

Tap data traffic volume for which speed slowdown is ended

3

Setting

4

OK

✅ Ending of speed slowdown is complete.

Ending Speed Slowdown (on Touch Menu)

End speed slowdown on Touch Menu.

1

`Data volume`

2

Tap data traffic volume for which speed slowdown is ended

3

`Setting`

4

`OK`

🏁 Ending of speed slowdown is complete.

💡 **Browser screen during speed slowdown**

The following screen is shown when opening a web page during slowdown in communication speed.

· Select "制限を解除しない" when a web page is shown. When turning on device again, the browser screen under speed slowdown may be shown again.

· To stop this screen from appearing, check "次の制限通知までこの表示を行わない" The browser screen under speed slowdown will not appear until the next speed slowdown.

Settings (Using PC WEB UI)

Overview of Web UI

Use Web UI in a browser to check information and change settings for Wi-Fi router, from a computer or mobile device connected via a WLAN or USB Cable.
For supported browsers, see "Operating Environment."

Activating Web UI

Screen shots and steps described here are for computer (Windows 10) compatible with Web UI.

1

Start computer and connect Wi-Fi router via WLAN or USB Cable

· For WLAN connection with computer, see "WLAN (Wi-Fi) ," and for USB connection, see " USB Connection with a Windows PC," " USB Connection with Mac."

2

Activate web browser and enter URL (http://web.setting) in address bar

　　Web UI Home Page appears.

· Select English from language list.

Logging into Web UI

1

In Web UI Home Page, Login

Login window opens.

Settings (Using PC WEB UI)

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2

Enter Login password ➡ Login

🏁 "Logout" button appears at top right of screen, then logging in is completed.

· Password for Web UI is "admin" by default.

💡 Default Login Password

For enhancing security, it is recommended to change default Login password.

If default Login password is used, a message prompting you to change password appears after logging in. Click OK to change Login password.

To change Login password, see "Changing Login Password for Web UI."

⚠ Cautions for Operating Web UI

Logging into Web UI

Please note the following for Web UI login.

· While operating Wi-Fi router, login to Web UI is not available. After turning Wi-Fi router Display off, login to Web UI.

· Login to Web UI from two or more devices simultaneously is not available.

· When 5 minutes passes with no operation on Web UI, you are logged out automatically, and entered information is deleted.

Changing Settings via WLAN Connection

Changing LAN Wi-Fi setting on Web UI from device connected via WLAN may disconnect WLAN connection.

Web UI Window

Layout

Item	Description
1 Main Menu	Toggle tab menu.
2 Language	Switch language.
3 Login/Logout	Log in to/Log out of Web UI.
4 Connection Status	Status: Shows connection status. Mode: Shows network type used. Connection time: Shows connection time. WAN IPv4 Address: Shows IPv4 address of WAN. DNS Server: Shows IP address of DNS server. IPv6 Address: Shows IPv6 address of WAN. IPv6 DNS Server: Shows IPv6 address of DNS server. LAN IP Address: Shows IPv4 address of LAN. LAN MAC Address: Shows LAN and MAC address.
5 Wi-Fi Status	Status: Shows Wi-Fi status. SSID A: Shows SSID A name. Number of clients attached: Shows the number of WLAN devices connected to SSID A. When WLAN devices are connected, host names are shown in red. SSID B: Shows SSID B name. Number of clients attached: Shows the number of WLAN devices connected to SSID B. When WLAN devices are connected, host names are shown in red.
6 Data Usage	Download Volume: Shows downloaded data volume. Upload Volume: Shows uploaded data volume. Duration: Shows period of time after data traffic volume was reset. International Roaming: Shows period of time after international roaming started. Download Volume: Shows downloaded data volume on international roaming. Upload Volume: Shows uploaded data volume on international roaming. Auto Reset Date: Shows date when auto reset is performed. Last Clear: Shows date when reset was performed last time. Reset: Resets data traffic volume shown.

Settings (Using PC WEB UI)

Tab Screen

"Settings" tab screen is used as an example.

Item	Description
1 Menu List	Shows Submenus; click option to toggle screens.
2 Information/Setting Screen	Information/Setting for each function
3 Status Icon	Mobile network signal level: 📶 (Strong)[1] ⇔ 📶 (Weak)[1] Network: **4G** : 4G connected **LTE** : LTE connected **3G** : 3G connected Status with mobile network: ⊕ : Connected to the Internet ❌[1]: Not connected to mobile network Battery level (%, icon): 🔋 (High) ⇒ 🔋 (Low) 🔋 : Charging

1 R mark appears during international roaming.

Checking Connected WLAN Devices

Showing Connected WLAN Devices

Show list of WLAN devices connected to Wi-Fi router. When Multi SSID (SSID B) is enabled, devices connected to SSID B can also be checked.

1

In "Connected Clients" tab ➡ Client List

🏁 Host name, MAC address, IP address and interface are shown.

・Click 📝 to change device name as necessary. Enter name and click OK .

MAC Address Filtering

Enable MAC address filtering to restrict WLAN device connections.

· When Multi SSID (SSID B) is enabled, MAC Address Filtering is also set in SSID B.
· Using LAN Cable connections via USB Cable or Cradle (optional) is not covered by MAC Address Filtering.

1

"Connected Clients" tab ➡ MAC Address Filtering

2

Enabled ➡ Apply

· To cancel MAC Address Filtering, Disabled ➡ Apply

3

Add More

🏁 MAC Address entry screen appears.

4

Enter description and MAC Address ➡ OK ➡ OK

🏁 Permitted devices appear.

· To edit description or Mac Address of added device, click � .

· To added device, click 🗑 .

Setting Mobile Network

Wi-Fi router connects to mobile network automatically without special settings. To change APN, creating profiles may be required according to the access point.

Changing Network Mode

Select network mode of mobile network manually.

1

"Network" tab ➡ Mobile Network ➡ Network Configuration

2

4G/LTE/3G / 4G/LTE ➡ Apply

🏁 The desired network is set.

Searching Mobile Network

Search and set mobile network.

1

"Network" tab ➡ Mobile Network ➡ Network Configuration

2

Manual ➡ Scan

🏁 Selectable mobile network list is created.

3

Checkmark mobile network ➡ Register

🏁 The desired network is set.

International Roaming

Set International data roaming.

1

"Network" tab ➡ Mobile Network ➡ Roaming Settings

2

Enabled ➡ Apply

3

OK

This site says...

Are you sure to save the Roaming Settings

| OK | Cancel |

International roaming setting is applied.

Setting Wi-Fi Automatic Disconnection

All devices are disconnected after mobile network is out of service for specific period of time.

1

"Network" tab ➔ Mobile Network ➔ Out-of-service Mode

2

Enabled ➔ Apply

3

OK

This site says…

Are you sure to save Out-Of-Service Mode setting?

OK   Cancel

Wi-Fi Automatic Disconnection is set.

Creating Profile

Add or change APN. To add a new profile, set the following items.

Item	Description
Profile Name	Enter profile name.
APN Name	Enter APN. [1]
User Name	Enter user name.
Password	Enter password.
Authorization Method	Select authentication type.
IP Type	Select IP type.

1 ［法人］閉域網契約専用APN is a common APN dedicated to closed network service "Network/VPN gateway secure mobile access" offered by SoftBank Corp. for corporate customers.

A contract is required to use "Network/VPN gateway secure mobile access."

For details on "Network/VPN gateway secure mobile access," see https://www.softbank.jp/biz/cloud/sdngateway/secure_mobile_ac/.

1

"Network" tab ➔ APN Profile Settings

2

New

Creation screen for a new profile appears.

3

Set each item ➡ OK

🏁 The new profile is created and screen returns to APN profile settings screen. The new profile name is shown in "APN" pulldown list. By clicking the profile, details of the new profile are shown.

· Select the new profile and click Delete to delete it.
· By changing APN and clicking Apply , Wi-Fi router is restarted to apply the changed settings.

SIM PIN

PIN (Personal Identification Number) is a code to prevent unauthorized use.

· Enable PIN verification to use Wi-Fi router by PIN entry on Wi-Fi router or Web UI when Wi-Fi router is powered on.
· Incorrectly entering PIN three consecutive times activates PIN Lock. PUK Code is required to unlock it. For details about PUK, see Customer Service. Incorrectly entering PUK Code ten consecutive times locks Wi-Fi router completely. If Wi-Fi router is completely locked, Wi-Fi router must be serviced. Contact Customer Service.

Settings (Using PC WEB UI)

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PIN Verification

Set PIN Verification.
SIM PIN is set to "9999" by default.

1

"Network" tab ➡ PIN Management

2

Select [Enabled] ➡ Enter PIN ➡ [Apply]

🏁 PIN entry from Wi-Fi router or Web UI is required when Wi-Fi router is powered on.

· To disable PIN Verification, in step **2**, select [Disabled] ➡ Enter PIN ➡ [Apply].

PIN Verification (Web UI)

1

"Network" tab ➡ PIN Management

2

Enter four- to eight-digit PIN ➡ Apply

🏁 When correct PIN is entered, PIN Lock is canceled.

PIN Verification (Wi-Fi Router)

When Wi-Fi router is powered on, PIN entry screen appears.

1

Enter four- to eight-digit PIN ➜ OK

🏁 When correct PIN is entered, Home Screen appears.

Changing PIN

Change the PIN to any four- to eight-digit number if required. Change PIN when PIN verification is enabled.

1

"Network" tab ➔ PIN Management

2

Change PIN

PIN change screen appears.

3

Set each item ➔ OK

PIN is modified.

Checking Connection History

Check connection history. In connection history, profile name, start /end time, IP address, and uploaded/downloaded data volume are shown.

1

"Network" tab ➡ Connection History

🏁 Connection history lists are shown.

🔆 Setting Connection History

Enabling/Disabling Connection History

In Connection History screen, select Enabled / Disabled ➡ Apply to enable or disable connection history

....

Editing Connection History

Checkmark history to delete ➡ 🗑 to delete selected history.
Click Export All to download history as a text file to computer.

Setting LAN

Setting DHCP

Assign IP addresses to devices inside LAN.
Setting items are as follows:

Item	Description
Host IP Address	Set Wi-Fi router host IP address.
Host Subnet Mask	Set host subnet mask.
DHCP Server	Set whether to use DHCP function.
DHCP Range	Set lowest and highest IP addresses that are allotted to WLAN devices.
Lease Time(min)	Set IP address lease time.

1

"Settings" tab ➔ DHCP Server

2

Set each item ➡ Apply

🏁 DHCP is set.

Firewall Switch

Set Firewall function.
Setting items are as follows:

Item	Description
IP Address Filtering	Set whether to use IP Address Filter function
WAN Port Ping Block	Set whether to respond to PING from WAN.

1

"Settings" tab ➜ Firewall

2

Set each item ➡ Apply

🏁 IP address filtering and WAN port PING block are set.

Setting IP Address and Port Filtering

Set whether to apply rules and enable transmissions from Internet through Firewall, based on sender/receiver addresses.
Setting items are as follows:

Item	Description
LAN IP Address	Set source IP address to apply rules; Specify IP address from IP addresses used on LAN.
LAN Port	Set source port number to apply rules.
WAN IP Address	Set destination IP address to apply rules.
WAN Port	Set destination port number to apply rules.
Protocol	Select protocol to apply rules.
IP Type	Set IPv4/IPv6.

1

"Settings" tab ➡ LAN Settings ➡ IP Address Filtering

2

Blacklist / Whitelist ➡ Apply

· If Blacklist is selected, packets to WAN IP address specified by selected LAN IP address are rejected.
· If Whitelist is selected, packets to WAN IP address specified by selected LAN IP address are permitted.

3

Add Rule

4

Set each item ➡ OK

🏁 Set rules are saved and filtering is set.

· To set IPv6 addresses, enter a prefix at the end of the IP address.

Canceling IP Address and Port Filtering

1

"Settings" tab ➡ LAN Settings ➡ IP Address Filtering

2

Click 🗑 for the rule to delete

3

OK

🏁 Filtering is canceled.

Setting Port Mapping

Set a virtual server for accessing a specified device inside LAN via the Internet.
Setting items are as follows:

Item	Description
Rule Name	Set name of virtual server.
WAN Port	Set source port number.
LAN IP Address	Set IP address for device inside LAN to make available as a server. Specify IP address from IP addresses used on LAN.
LAN Port	Set destination port number for device inside LAN to make available as a server when transmitting packets.
Protocol	Select protocol to apply rules.

1

"Settings" tab ➡ LAN Settings ➡ Port Mapping

2

Add Rule

3

Set each item ➡ OK

4

OK

Port Mapping is set.

· To edit setting, click on setting list.

Canceling Port Mapping

1

"Settings" tab ➡ LAN Settings ➡ Port Mapping

2

🗑

3

`OK`

🏁 Port Mapping setting is deleted.

Setting DMZ

If DMZ is enabled, accessing all the ports of IP address specified by outside network is available.

1

"Settings" tab ➡ LAN Settings ➡ DMZ

2

Enabled ➔ Set DMZ IP address ➔ Apply

🏁 DMZ is set.

Setting VPN Pass-through

By enabling VPN pass-through function, Wi-Fi router can pass VPN communication (PPTP/L2TP/IPSec) through.

1

"Settings" tab ➡ LAN Settings ➡ VPN Pass-through

2

Enabled / Disabled ➡ Apply

🏁 VPN pass-through function is set.

Setting Wi-Fi

Connect to PCs, smartphones, etc. via WLAN. This WLAN connection is described as "LAN Wi-Fi."

❗ Note on Changing LAN Wi-Fi Settings

Changing LAN Wi-Fi setting on Web UI from device connected via WLAN may disconnect WLAN connection.

Wi-Fi Basic Settings (SSID A)

Make basic WLAN settings for SSID A.
Setting items are as follows:

Item	Description
Wi-Fi	Set whether to enable WLAN.
Multi-SSID	Set to enable SSID B.
Max Number of Connected Clients (1-10)	Set the number of connectable devices to Wi-Fi router.
Show SSID and security key on Touch Screen	Checkmark to show SSID and password (Security Key) when Manual Connection is tapped on Wi-Fi router's Touch Menu.
Interface	Select SSID to set. Not selectable by default. Only SSID A is shown. If Multi-SSID is enabled, SSID B becomes also selectable.
SSID	Set SSID A name that is shown on WLAN devices to be connected.
Security	Set security.
Password	Set password.
SSID Stealth	Set whether not to notify SSID A name of Wi-Fi router.
Privacy Separator	Set whether to prohibit interactive communication between WLAN devices connected to SSID A.

1

"Settings" tab ➡ Wi-Fi Settings ➡ Basic

2

Set each item ➡ Apply

3

OK

🏁 Wi-Fi is disconnected and Wi-Fi setting for SSID A is performed.

· Reset Wi-Fi settings to default ➡ OK to restore Wi-Fi settings to factory default.

Enabling Multi SSID Function (SSID B)

Make basic WLAN settings for SSID B. Enable Multi-SSID beforehand.
Setting items are as follows:

Item	Description
Wi-Fi[1]	Set whether to enable WLAN.
Multi-SSID	Set to enable SSID B.
Multi-SSID AP Isolation[2]	Set whether to permit interactive communication between SSID A and SSID B connected devices.
Max Number of Connected Clients (1-10)[1]	Set the number of connectable devices to Wi-Fi router.
Show SSID and password on Touch Screen.[1]	Checkmark to show SSID and password (Security Key) when Manual Connection is tapped on Wi-Fi router's Touch Menu.
Interface	Select SSID to set. Not selectable by default. Only SSID A is shown. If Multi-SSID is enabled, SSID B becomes also selectable.
SSID	Set SSID B name that is shown on WLAN devices to be connected.
Security	Set security.
Password	Set password.
SSID Stealth	Set whether not to notify SSID B name of Wi-Fi router.
Privacy Separator	Set whether to prohibit interactive communication between WLAN devices connected to SSID B.
Access the Web Interface[2]	Set whether to permit access to Web UI from WLAN devices connected to SSID B.

1 Setting common to SSID A/SSID B.

2 Available when "Multi-SSID" is set to Enabled .

1

"Settings" tab ➡ Wi-Fi Settings ➡ Basic

2

Set "Multi-SSID" to Enabled

3

Select SSID B in "Interface"

4

Set each item ➡ Apply

5

OK

This site says...

Changing Wi-Fi settings will cause Wi-Fi connection to be disconnected in order to make Wi-Fi settings effective.

Are you sure to change Wi-Fi settings now?

OK   Cancel

🏁 Wi-Fi is disconnected and Wi-Fi setting for SSID B is performed.

・ Reset Wi-Fi settings to default ➡ OK to restore Wi-Fi settings to factory default.

Wi-Fi Advanced Settings

Setting items are as follows:

Item	Description
Frequency Band	Select frequency band to use from 2.4 GHz/5 GHz. [1]
Mode	Set Wi-Fi communication standard.
Wi-Fi Channel	Set Wi-Fi channel.
Wi-Fi Bandwidth	Set Wi-Fi channel frequency band width.
Sleep Mode	Set whether to disable WLAN function automatically when Wi-Fi router does not connect to WLAN devices.
Sleep Mode Timer	Set time period before WLAN function is automatically set to OFF when Sleep Mode is enabled.
TX Power	Set Wi-Fi transmissions output. Suppressing transmissions output reduces interference with other communications.
TCP NAT Timer	Set time period to maintain sessions with no communications after a TCP session has been established. Input values are from 30 to 86400 seconds.
UDP NAT Timer	Set the times that UDP state management is maintained via the absence of communications. Input values are from 30 to 86400 seconds.

1 5 GHz cannot be selected if SIM Card is not inserted or during international roaming.

1

"Settings" tab ➡ Wi-Fi Settings ➡ Advanced

2

Set each item ➔ Apply

3

OK

🏁 Wi-Fi is disconnected and Advanced Wi-Fi setting is performed.

Connecting WPS Supported WLAN Device

Connect WPS supported WLAN devices. Both SSID A and SSID B are connectable.
To connect using SSID B, enable Multi SSID function (SSID B).

· Enable WLAN function on WLAN device, then prepare for WPS settings as required.
· Method of setting WPS function varies by device. See WLAN device user guide etc.

1

"Settings" tab ➡ Wi-Fi Settings ➡ WPS

2

Start

🏁 "WPS Status" changes to "PROCESSING."

3

While following window appears (within 120 seconds), set up WPS connection on WLAN device

4

To make other settings on WLAN device, follow the onscreen instructions

- If connection is successful, WLAN connection counter number on Display of Wi-Fi router increases by one.

Device Settings

Changing Login Password for Web UI

Change Login password.

For enhancing security, it is recommended to change Login password regularly.

1

"Settings" tab ➡ Device Settings ➡ Web UI Password

2

Enter current password

3

Enter new password

Enter new password again ➔ Apply

🏁 New password is set.

Settings (Using PC WEB UI)

809SH

Checking Notifications

Check received notifications.

1

"Settings" tab ➔ Device Settings ➔ Notification

🏁 Notification list is shown.

2

▤ for notification to check

🏁 Notification is shown.

Selecting and Deleting Notifications

Delete received notifications.

1

"Settings" tab ➡ Device Settings ➡ Notification

🏁 Notification list is shown.

2

Checkmark notifications to delete

· Checkmark the top checkbox to select all.

3

🗑

4

`OK`

This site says...

Are you sure you want to delete the sms?

OK	Cancel

Notification is deleted.

Showing Data Traffic Volume on Lock Screen and Icon

Show data traffic volume on Lock Screen and Icon

1

"Settings" tab ➔ Device Settings ➔ Data Usage Settings

2

Checkmark Show usage on lock screen and icon ➔ Apply

🏁 Data traffic volume is shown on Lock Screen and Icon.

Setting Maximum Traffic

Set monthly data traffic volume. When data traffic volume exceeds the set volume, Notification on Home Screen of Wi-Fi router appears.

· When data traffic volume exceeds the set maximum volume, Wi-Fi router's icon 🔲 (bar icon) changes to 🔲 (red bar icon).
· Maximum traffic volume does not mean a limit on data communication. Use this volume as measure of usage.

1

"Settings" tab ➡ Device Settings ➡ Data Usage Settings

2

Enter number for maximum traffic volume ➡ Select unit ➡ Apply

Maximum traffic is set.

· Select a unit GB or MB .

Setting Auto Reset Date

Set date of month for automatically resetting accumulated data traffic.

1

"Settings" tab ➔ Device Settings ➔ Data Usage Settings

Setting USB Standard

Set USB standard.

1

"Settings" tab ➔ Device Settings ➔ USB Mode

2

2.0 / 3.0 ➔ Apply ➔ OK

🏁 Device is restarted and USB communication standard is set.

Backing Up Settings

Back up all settings of Wi-Fi router such as Wi-Fi, firewall, or WAN settings in your computer in XML file.

1

"Settings" tab ➡ Device Settings ➡ Backup/Restore

2

Backup

🏁 XML file for backup is downloaded.

· Default XML file name for backup is "settings.xml."

· When a confirmation screen appears, follow the onscreen instructions.

Restoring Settings

Use XML file downloaded on "Backing Up Settings" to restore the settings when backup was made.

1

"Settings" tab ➔ Device Settings ➔ Backup/Restore

2

Browse ➔ Select downloaded XML file

Setting Auto Software Update

Enable auto-software update to automatically update. If it is disabled, Wi-Fi router checks updates but does not update automatically.

1

"Settings" tab ➡ Device Settings ➡ Software Update

2

Enabled / Disabled ➜ Apply

🏁 Enabled / Disabled of automatic software update is switched.

Updating Software

1

"Settings" tab ➡ Device Settings ➡ Software Update

2

Update ➡ OK

🏁 Wi-Fi router checks the latest software.

· When current software is the latest, "There are no available software releases. Your software is the latest." appears. When software is not latest version, software is updated.

💡 Software Update

Packet communication charges are not applied for software update.
While software is updated, other functions such as data communication are unavailable.
Software update is not available during international roaming.

Resetting Wi-Fi Router

Restore Wi-Fi router settings to their factory defaults.

· All settings are restored except contents in SIM Card.
· Alternatively, use Reset Button of Wi-Fi router.

1

"Settings" tab ➡ Device Settings ➡ Restore Default

2

Restore Factory Settings

3

OK

🏁 Wi-Fi router reboots to its default settings.

Restarting Wi-Fi Router

1

"Settings" tab ➡ Device Settings ➡ Reboot

2

Reboot

3

OK

Wi-Fi router is restarted.

Showing Support Information

Showing Support Website

Shows Website of Support Center and product information page.

1

"Help" tab

▨ Website URL appears.

Showing Wi-Fi Router Information

Checking Wi-Fi Router Information

Check various information such as firmware version.

Item	Description
Phone Number	Phone number saved in SIM Card
Current APN Profile	Current profile
IMEI	Serial number of Wi-Fi router
Max Access Number	Number of connectable device
LAN Domain	LAN domain of Wi-Fi router
Software Version	Current software version
Hardware Version	Hardware version

1

"About" tab

🏁 Check device information.

Settings (Using Mobile WEB UI)

Overview of Web UI

Access Web UI from a smartphone etc. to show Web UI page for mobile devices.

SoftBank Corp. does not guarantee compatibility with all mobile devices.

Available functions differ in Web UI for mobile devices and Web UI for computers.

Select English from language list.

Activating Web UI

1

Confirm that Wi-Fi router and mobile device are connected via WLAN

· For instruction for WLAN connection, see "WLAN (Wi-Fi) ."

2

Activate web browser and enter URL (http://web.setting) in address bar

Web UI Home Page appears.

· Select English from language list.

Logging into Web UI

1

In Web UI Home Page, Login

Login window opens.

2

Enter Login password ➡ [Login]

🏁 Login is complete.

· Password for Web UI is "admin" by default. For Login password, see "Changing Login Password for Web UI."

Web UI Window

Layout

Item	Description
1 Main Menu	Toggle tab menu.

2 Connection Status/Wi-Fi Status/ Data Usage[1]	・Connection Status Status: Shows connection status. Mode: Shows network type used. Connection time: Shows connection time. WAN IPv4 Address: Shows IPv4 address of WAN. DNS Server: Shows IP address of DNS server. IPv6 Address: Shows IPv6 address of WAN. IPv6 DNS Server: Shows IPv6 address of DNS server. LAN IP Address: Shows IPv4 address of LAN LAN MAC Address: Shows LAN and MAC address. ・Wi-Fi Status Status: Shows Wi-Fi status. SSID A: Shows SSID A name. Number of clients attached: Shows the number of WLAN devices connected to SSID A. When WLAN devices are connected, host names are shown in red. SSID B: Shows SSID B name. Number of clients attached: Shows the number of WLAN devices connected to SSID B. When WLAN devices are connected, host names are shown in red. ・Data Usage Download Volume: Shows downloaded data volume. Upload Volume: Shows uploaded data volume. Duration: Shows period of time after data traffic volume was reset. International Roaming: Shows period of time after international roaming started. Download Volume: Shows downloaded data volume on international roaming. Upload Volume: Shows uploaded data volume on international roaming. Auto Reset Date: Shows date when auto reset is performed. Last Clear: Shows date when reset was performed last time. Reset: Resets data traffic volume shown.
3 Language	Switch language.
4 Login/Logout	Log in to/Log out of Web UI.

1 Tap 〉 on the upper left of the screen to toggle "Connection Status"/"Wi-Fi Status"/"Data Usage."

Setting Mobile Network

Changing Network Mode

Select network mode of mobile network manually.

1

"Network" tab ➡ Network Configuration

2

4G/LTE/3G ／ 4G/LTE ➜ Apply

🏁 The desired network is set.

International Roaming

Set International data roaming.

1

"Network" tab ➡️ [Roaming Settings]

2

Enabled ➜ Apply

3

OK

International roaming setting is applied.

Setting Wi-Fi

Wi-Fi Basic Settings (SSID A)

Make basic WLAN settings for SSID A.
Setting items are as follows:

Item	Description
Wi-Fi	Set whether to enable WLAN.
Multi-SSID	Set to enable SSID B.
Max Number of Connected Clients (1-10)	Set the number of connectable devices to Wi-Fi router.
Show SSID and security key on Touch Screen	Checkmark to show SSID and password (Security Key) when Manual Connection is tapped on Wi-Fi router's Touch Menu.
Interface	Select SSID to set. Not selectable by default. Only SSID A is shown. If Multi-SSID is enabled, SSID B becomes also selectable.
SSID	Set SSID A name that is shown on WLAN devices to be connected.
Security	Set security.
Password	Set password.
SSID Stealth	Set whether not to notify SSID A name of Wi-Fi router.
Privacy Separator	Set whether to prohibit interactive communication between WLAN devices connected to SSID A.

1

"Settings" tab ➡ Wi-Fi Settings ➡ Basic

2

Set each item ➡ Apply

3

OK

▓ Wi-Fi is disconnected and Wi-Fi setting for SSID A is performed.

・ Reset Wi-Fi settings to default ➜ OK to restore Wi-Fi settings to factory default.

Enabling Multi SSID Function (SSID B)

Make basic WLAN settings for SSID B. Enable Multi-SSID beforehand.
Setting items are as follows:

Item	Description
Wi-Fi[1]	Set whether to enable WLAN.
Multi-SSID	Set to enable SSID B.
Multi-SSID AP Isolation[2]	Set whether to permit interactive communication between SSID A and SSID B connected devices.
Max Number of Connected Clients (1-10)[1]	Set the number of connectable devices to Wi-Fi router.
Show SSID and security key on Touch Screen[1]	Checkmark to show SSID and password (Security Key) when `Manual Connection` is tapped on Wi-Fi router's Touch Menu.
Interface	Select SSID to set. Not selectable by default. Only SSID A is shown. If Multi-SSID is enabled, SSID B becomes also selectable.
SSID	Set SSID B name that is shown on WLAN devices to be connected.
Security	Set security.
Password	Set password.
SSID Stealth	Set whether not to notify SSID B name of Wi-Fi router.
Privacy Separator	Set whether to prohibit interactive communication between WLAN devices connected to SSID B.
Access the Web Interface[2]	Set whether to permit access to Web UI from WLAN devices connected to SSID B.

1 Setting common to SSID A/SSID B.

2 Available when "Multi-SSID" is set to `Enabled` .

1

"Settings" tab ➡ [Wi-Fi Settings] ➡ [Basic]

2

Set "Multi-SSID" to Enabled

4

Set each item ➔ Apply

5

OK

web.setting says

Changing Wi-Fi settings will cause Wi-Fi connection to be disconnected in order to make Wi-Fi settings effective.

Are you sure to change Wi-Fi settings now?

Cancel   OK

Wi-Fi is disconnected and Wi-Fi setting for SSID B is performed.

· Reset Wi-Fi settings to default ➡ OK to restore Wi-Fi settings to factory default.

Settings (Using Mobile WEB UI)

809SH

Wi-Fi Advanced Settings

Setting items are as follows:

Item	Description
Frequency Band	Select frequency band to use from 2.4 GHz/5 GHz. [1]
Mode	Set Wi-Fi communication standard.
Wi-Fi Channel	Set Wi-Fi channel.
Wi-Fi Bandwidth	Set Wi-Fi channel frequency band width.
Sleep Mode	Set whether to disable WLAN function automatically when Wi-Fi router does not connect to WLAN devices.
Sleep Mode Timer	Set time period before WLAN function is automatically set to OFF when Sleep Mode is enabled.
TX Power	Set Wi-Fi transmissions output. Suppressing transmissions output reduces interference with other communications.
TCP NAT Timer	Set time period to maintain sessions with no communications after a TCP session has been established. Input values are from 30 to 86400 seconds.
UDP NAT Timer	Set the times that UDP state management is maintained via the absence of communications. Input values are from 30 to 86400 seconds.

1   5 GHz cannot be selected if SIM Card is not inserted or during international roaming.

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1

"Settings" tab ➜ Wi-Fi Settings ➜ Advanced

Settings (Using Mobile WEB UI)

809SH

Connecting WPS Supported WLAN Device

Connect WPS supported WLAN devices. Both SSID A and SSID B are connectable.
To connect using SSID B, enable Multi SSID function (SSID B).

· Enable WLAN function on WLAN device, then prepare for WPS settings as required.
· Method of setting WPS function varies by device. See WLAN device user guide etc.

1

"Settings" tab ➡ Wi-Fi Settings ➡ WPS

2

Start

"WPS Status" changes to "PROCESSING."

Device Settings

Changing Login Password for Web UI

Change Login password.

For enhancing security, it is recommended to change Login password regularly.

1

"Settings" tab ➡ Device Settings ➡ Web UI Password

2

Enter current password

3

Enter new password

4

Enter new password again ➔ Apply

🏁 New password is set.

Checking Notifications

Check received notifications.

1

"Settings" tab ➡ [Device Settings] ➡ [Notification]

🏁 Notification list is shown.

2

for notification to check

Notification is shown.

Selecting and Deleting Notifications

Delete received notifications.

1

"Settings" tab ➡ Device Settings ➡ Notification

🏁 Notification list is shown.

2

Checkmark notifications to delete

· Checkmark the top checkbox to select all.

3

🗑

4

OK

🏁 Notification is deleted.

Showing Data Traffic Volume on Lock Screen and on Icon

Show data traffic volume on Lock Screen and on Icon.

1

"Settings" tab ➡ Device Settings ➡ Data Usage Settings

2

Checkmark `Show usage on lock screen and icon` ➔ `Apply`

🏁 Data traffic volume is shown on Lock Screen and Icon.

Setting Maximum Traffic

Set monthly data traffic volume. When data traffic volume exceeds the set volume, Notification on Home Screen of Wi-Fi router appears.

・When data traffic volume exceeds the set maximum volume, Wi-Fi router's icon ▦ (bar icon) changes to ▦ (red bar icon).
・Maximum traffic volume does not mean a limit on data communication. Use this volume as measure of usage.

1

"Settings" tab ➡ Device Settings ➡ Data Usage Settings

2

Enter number for maximum traffic volume ➡ Select unit ➡ [Apply]

🏁 Maximum traffic is set.

· Select a unit [GB] or [MB] .

Setting Auto Reset Date

Set date of month for automatically resetting accumulated data traffic.

1

"Settings" tab ➡ Device Settings ➡ Data Usage Settings

2

Select auto reset date ➡️ Apply

🏁 Auto reset date is set.

· Select value between 1 and 31.
· If 31 is set, data usage is reset at the end of the month.

Switching to PC Web UI

Switch to Web UI for PC.

Switching to PC Web UI

1

"PC View" tab

2

OK

Changes to Web UI for PC.

Checking Wi-Fi Router Information

Checking Wi-Fi Router Information

Check various information such as firmware version.

Item	Description
Phone Number	Phone number registered in SIM Card
Current APN Profile	Current profile
IMEI	Serial number of Wi-Fi router
Max Access Number	Number of connectable device
LAN Domain	LAN domain of Wi-Fi router
Software Version	Current software version
Hardware Version	Hardware version

1

"About" tab

Check device information.

Appendix

Troubleshooting

Check Here First

If symptoms continue even after checking, contact a SoftBank Shop or Customer Service.

❓ Hints

Q. Unable to connect WLAN

A. Make sure Wi-Fi router and WLAN device WLAN functions are activated. When 5 minutes elapse after no WLAN devices are connected and Display turns off, Wi-Fi router goes into Sleep mode and WLAN function of Wi-Fi router is disabled. Press Power Key to enable WLAN function automatically. Change time before turning off in Sleep Mode in Wi-Fi router Settings . For details, see "Sleep Mode."

A. Confirm that SSID of Wi-Fi router is selected and correct password (Security Key) is set on WLAN device. If you forget SSID or password (Security Key), see Wi-Fi Guide in Touch Menu of Wi-Fi router or Wi-Fi Settings on Web UI to check or change password (Security Key).
For details, see "Setting SSID and Password (Security Key) " and "Wi-Fi Basic Settings (SSID A)." Some WLAN devices do not support WPA/WPA2. See WLAN device user guide.

A. If you are unable to connect with WPS function, see WLAN device user guide etc.
If problem persists, set up WLAN manually. For details, see each topic of "WLAN (Wi-Fi)."

A. Change Wi-Fi communication standard setting and retry. For details, see "Setting Wi-Fi Communication Standard."

A. Depending on the specifications or settings of WLAN devices, the connection may not be resumed automatically even if WLAN function of Wi-Fi router and WLAN devices is set to ON. See WLAN device user guide.

Q. Computer does not recognize Wi-Fi router by USB connection

A. Check whether Wi-Fi router is properly connected to computer.

A. Remove Wi-Fi router from computer, restart computer, then reconnect Wi-Fi router.

A. For Windows 10, follow these steps to confirm proper Wi-Fi router installation.

Right-click the Start menu ➡ Device Manager ➡ Confirm that the following are shown.

· "Remote NDIS based Internet Sharing Device" in "Network adapters"

A. For Windows 8.1, follow these steps to confirm proper Wi-Fi router installation.

Open Desktop window ➡ Explorer ➡ Right-click This PC ➡ Properties ➡ Advanced System Settings ➡ Hardware ➡ Device Manager ➡ Confirm that the following are shown.

· "Remote NDIS based Internet Sharing Device" in "Network adapters"

A. For Windows 8, follow these steps to confirm proper Wi-Fi router installation.

Open Desktop window ➡ Explorer ➡ Right-click This Computer ➡ Properties ➡ Advanced System Settings ➡ Hardware ➡ Device Manager ➡ Confirm that the following are shown.

· "Remote NDIS based Internet Sharing Device" in "Network adapters"

A. For Windows 7, follow these steps to confirm proper Wi-Fi router installation.

Start Explorer ➡ Right-click Computer ➡ Properties ➡ Advanced System Settings ➡ Hardware ➡ Device Manager ➡ Confirm that the following are shown.

· "Remote NDIS based Internet Sharing Device" in "Network adapters"

Q. Installer does not automatically activate (Windows PC)

A. New hardware recognition takes time. Wait for approximately 10 seconds.

A. When security software is installed in your PC, stop security software before installing. For stopping security software, see security software user guide.

Q. Charging time is long

A. It takes longer to charge from a computer via USB.

A. It takes longer to charge while using Wi-Fi router.

Q. Internet connection fails

A. Make sure Wi-Fi router is within the service area.

A. If signal reception is poor, move to where signal is good and reconnect.

A. The access point might be busy depending on the time of day. Wait a little then reconnect.

A. Activate Web UI and make sure that network settings are correct.

Q. Transmission fails

A. Signal may be weak. Move to where signal is stronger.

A. Check Battery of Wi-Fi router. If Battery is low, charge Battery with computer using USB Cable or AC Charger (optional).

A. Confirm that Wi-Fi router and WLAN device, computer, etc. are properly connected via WLAN or USB Cable.

A. If Wi-Fi router is connected via WLAN, power off Wi-Fi router, then power on again.

A. If Wi-Fi router is connected using USB Cable, remove Wi-Fi router from PC, then reconnect.

A. Some WLAN devices may stop when no data transfer is made for a certain period of time. See WLAN device user guide.

A. If problem persists, restart computer, then reconnect to Wi-Fi router.

Q. Transmission from WLAN device connected to Wi-Fi router fails

A. Confirm that SIM Card is recognized.

A. Confirm that Wi-Fi router is properly connected to mobile network. When connected to mobile network, icon (⊕) appears on Home Screen indicating mobile network connection established.

A. Data traffic is unavailable during Wi-Fi router software update. Try to connect after software is updated.

Q. Transmissions are slow

A. When ⏩ appears on Wi-Fi router status bar, communication speed slowdown has started based on your data usage. For details, see "Operation for Setting Data Traffic."

A. Signal may be weak. Move to where signal is stronger.

A. Connection may be poor. Try again later.

A. Interference with nearby WLAN device etc. may occur. Change Wi-Fi router channel or connect with USB Cable. For details about changing WLAN channel, see "Wi-Fi Advanced Settings."

A. Using TV, radio or microwave oven may cause interference signal reception of Wi-Fi router. Use them apart from Wi-Fi router or turn them off to check if they interfere Wi-Fi router signal reception.

A. If temperature of Wi-Fi router remains high for a long time, communication may be restricted. Try to connect after a while.

A. If Wi-Fi router is covered with cover or case, remove it.

Q. Forgot PIN/Unknown PIN Unblocking Key (PUK)/SIM Card is locked

A. Contact Customer Service.

Q. SIM Card is not recognized/recognized as an invalid SIM Card

A. Check whether SIM Card is properly inserted. For details, see "Installing SIM Card."

A. Check SIM Card for damage.

A. Check SIM Card IC chip for scratches/corrosion.

A. Dirt on SIM Card (particularly on IC chip) may prevent recognition. Clean it with a soft cloth.

A. Contact Customer Service.

Q. Unsure if logged on Administrator

A. For Windows 10, follow these steps to check.

Right-click the Start menu ➡ Control Panel ➡ User Accounts ➡ Confirm that account type is "Administrator."

A. For Windows 8.1, follow these steps to check.

Move the pointer into the upper-right or lower-right corner ➡ charm ➡ ⚙ ➡ Control Panel ➡ Change your account type in "User Accounts and Family Safety" ➡ Confirm that account type is "Administrator."

A. For Windows 8, follow these steps to check.

Move the pointer into the upper-right or lower-right corner ➡ charm ➡ ⚙ ➡ Control Panel ➡ Change your account type in "User Accounts and Family Safety" ➡ Confirm that account type is "Administrator."

A. For Windows 7, follow these steps to check.

Start menu ➡ Control Panel ➡ User Accounts and Family Safety ➡ User Accounts ➡ Confirm that account type is "Administrator."

A. For macOS Mojave 10.14.6, follow these steps to check.

In the Apple menu, System Preferences ➡ Users & Groups ➡ Confirm that account type is "Administrator."

Q. "Out of service area" indication appears when outside Japan

A. Make sure that Network Search Mode for International Roaming is Automatic. For details, see "International Roaming."

Q. Resetting factory defaults (Reset)

A. Reset Wi-Fi router from the Touch Menu or Web UI. For details, see "Front/Top/Bottom" (for Touch Menu) or "Resetting Wi-Fi Router" (for Web UI).

Q. Old phone number appears on Web UI

A. Old phone number may still appear in Web UI depending on subscription terms or cancellation method.

Q. Wi-Fi router operations are unstable

A. Confirm that Wi-Fi router is not used in extreme temperatures/high humidity/direct sunlight/dusty areas. Read "Safety Precautions" beforehand for using under proper environment.

Q. Wi-Fi router goes off

A. Confirm that Wi-Fi router is not used in extreme temperatures/high humidity/direct sunlight/dusty areas. Read "Safety Precautions" beforehand for using under proper environment.

A. Reboot Wi-Fi router and check battery level. If Battery is low, charge Battery, power on 10 minutes after charging starts, then check if Wi-Fi router works properly.

Q. Connection for voice chat or video chat fails

A. Make sure Wi-Fi router is within the service area.

A. Signal may be weak. Move to where signal is stronger.

Q. Wi-Fi router consumes Battery faster.

A. Depending on the settings, Wi-Fi router consumes Battery faster. Change the settings for Display Brightness, Display Timeout, Sleep mode, or Fast Boot. For details, see "Other Settings."

A. When the network connection is unstable, Wi-Fi router drains Battery.

A. Usage times gradually become shorter due to repeated charging/discharging.

Specifications

Wi-Fi Router

Item	Description
Dimensions (W × H × D)	Approx. 108 × 72 × 15 mm
Weight	Approx. 150 g
Interface	USB 3.0 (USB Type-C)
Power Consumption	On standby: 0.012 W On communication: 0.660 W * Power consumption varies by usage.
Operation Environment	Operating Temperature: 5℃ to 35℃ Humidity: 45% to 85%
Compatible Networks	Domestic use TDD-LTE (including AXGP): 2.5 GHz, 3.5 GHz FDD-LTE: 700 MHz, 900 MHz, 1.5G Hz, 1.7 GHz, 2.1 GHz W-CDMA: 900 MHz, 2.1 GHz Overseas use FDD-LTE: 700 MHz, 800 MHz, 850 MHz, 900 MHz, 1.5 GHz, 1.7 GHz/2.1 GHz, 1.7 GHz, 1.9 GHz, 2.1 GHz W-CDMA: 800 MHz, 850 MHz, 900 MHz, 1.7 GHz/2.1 GHz, 1.9 GHz, 2.1 GHz WLAN: IEEE802.11 a/b/g/n/ac

Wi-Fi Router

Frequency	TDD-LTE (including AXGP): B41: Upstream: 2545 MHz to 2655 MHz, Downstream: 2545 MHz to 2655 MHz B42: Upstream: 3400 MHz to 3600 MHz, Downstream: 3400 MHz to 3600 MHz FDD-LTE: B1: Upstream: 1920 MHz to 1980 MHz, Downstream: 2110 MHz to 2170 MHz B2: Upstream: 1850 MHz to 1910 MHz, Downstream: 1930 MHz to 1990 MHz B3: Upstream: 1710 MHz to 1785 MHz, Downstream: 1805 MHz to 1880 MHz B4: Upstream: 1710 MHz to 1755 MHz, Downstream: 2110 MHz to 2155 MHz B5: Upstream: 824 MHz to 849 MHz, Downstream: 869 MHz to 894 MHz B8: Upstream: 880 MHz to 915 MHz, Downstream: 925 MHz to 960 MHz B11: Upstream: 1427.9 MHz to 1447.9 MHz, Downstream: 1475.9 MHz to 1495.9 MHz B12: Upstream: 699 MHz to 716 MHz, Downstream: 729 MHz to 746 MHz B17: Upstream: 704 MHz to 716 MHz, Downstream: 734 MHz to 746 MHz B19: Upstream: 830 MHz to 845 MHz, Downstream: 875 MHz to 890 MHz B21: Upstream: 1447.9 MHz to 1462.9 MHz, Downstream: 1495.9 MHz to 1510.9 MHz B28: Upstream: 703 MHz to 748 MHz, Downstream: 758 MHz to 803 MHz WCDMA: Band I: Upstream: 1920 MHz to 1980 MHz, Downstream: 2110 MHz to 2170 MHz Band II: Upstream: 1850 MHz to 1910 MHz, Downstream: 1930 MHz to 1990 MHz Band IV: Upstream: 1710 MHz to 1755 MHz, Downstream: 2110 MHz to 2155 MHz Band V: Upstream: 824 MHz to 849 MHz, Downstream: 869 MHz to 894 MHz Band VI: Upstream: 830 MHz to 840 MHz, Downstream: 875 MHz to 885 MHz Band VIII: Upstream: 880 MHz to 915 MHz, Downstream: 925 MHz to 960 MHz Band XIX: Upstream: 830 MHz to 845 MHz, Downstream: 875 MHz to 890 MHz WLAN: 2400 MHz to 2483.5MHz (13ch all; Domestic) 5150 MHz to 5350 MHz 5470 MHz to 5725 MHz
Continuous Standby Time/ Continuous Communication Time	For continuous standby time and continuous communication time, see the following Website. https://www.softbank.jp/biz/mobile/lineup/data/809sh/

SIM Removal Tool

Item	Description
Length	Approx. 33 mm
Weight	Approx. 1 g

Material List (Wi-Fi Router)

Parts	Materials/Finishing
Display Panel	Acrylic resin + PC resin/hard coat
Exterior (Front/Side/Back)	PC resin/paint, hard coat, print
Power Key/SIM Card Tray (Exterior)	PC resin/paint, hard coat
Circumference of USB Type-C Port	Stainless steel
SIM Card Tray	PC resin
IMEI Plate/ IMEI Label	PET resin/print

Material List (SIM Removal Tool)

Parts	Materials/Finishing
SIM Removal Tool	Stainless steel

Appendix

809SH

Specific Absorption Rate (SAR) for This Product (for Japan)

Specific Absorption Rate (SAR) for This Product (for Japan)

This product [809SH] meets Japanese technical regulations* and international guidelines for exposure to radio waves.

The Japanese technical regulations for exposure to radio frequency energy established permitted levels of radio frequency energy, based on standards developed by independent scientific organizations through periodic and thorough evaluation of scientific studies.
The regulations employ a unit of measurement known as the Specific Absorption Rate, or SAR.
The SAR limit is 2 watts/kilogram (W/kg) averaged over ten grams of tissue.
The limit includes a substantial safety margin designed to assure the safety of all persons, regardless of age and health. The value of the limit is equal to the value given in international guidelines recommended by ICNIRP**, which is in collaboration with the World Health Organization (WHO).
The highest SAR value for this product is 0.880 W/kg*** when used close to the body in the below manner****.
While there may be differences between the SAR levels of various products and at various positions, all products meet the Japanese technical regulations.
Although the SAR is determined at the highest certified power level, the actual SAR of the product during operation can be well below the maximum value.

* The technical regulations are provided in Article 14-2 of the Ministry Ordinance Regulating Radio Equipment.
** International Commission on Non-Ionizing Radiation Protection
*** The value is under simultaneous transmission use conditions.
**** Use close to the body
To use this product close to the body, maintain a separation of 1.5 cm with no metal (parts) between it and the body. This will ensure this product meets the Japanese technical regulations for exposure and international guidelines for radio wave protection.
The World Health Organization has announced that "A large number of studies have been performed over the last two decades to assess whether mobile phones pose a potential health risk. To date, no adverse health effects have been established as being caused by mobile phone use." They note that if you want to reduce your exposure then you can do so by limiting the length of calls or using a hands-free device to keep the mobile phone away from the head and body.

For more information about SAR, see the following websites:

- Ministry of Internal Affairs and Communications (MIC)
  http://www.tele.soumu.go.jp/e/sys/ele/body/index.htm
- Association of Radio Industries and Businesses (ARIB)
  http://www.arib-emf.org/01denpa/denpa02-02.html
  (Japanese)
- World Health Organization
  http://www.who.int/emf

- List of Specific Absorption Rates (SAR) for radio waves by smartphone/3G model
  https://www.softbank.jp/mobile/support/sar/ (Japanese)

European RF Exposure Information

Your mobile device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves recommended by international guidelines. These guidelines were developed by the independent scientific organization ICNIRP and include safety margins designed to assure the protection of all persons, regardless of age and health. The guidelines use a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit for mobile devices is 2.0 W/kg. As mobile devices offer a range of functions, they can be used in other positions, such as on the body. In this case, the highest tested SAR value is 0.90 W/kg* at the separation distance of 0.5 cm from the body. For electronic safety, maintain the separation distance with accessories containing no metal, that position handset a minimum of the above distance. Use of other accessories may not ensure compliance with RF exposure guidelines.

* The tests are carried out in accordance with international guidelines for testing.

Simplified Declaration of Conformity for 【809SH】
Hereby, SHARP CORPORATION declares that the radio equipment type 【809SH】 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:https://jp.sharp/k-tai/.

FCC RF Exposure Information

Your handset is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.
The guidelines are based on standards that were developed by independent scientific organization through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.
The exposure standard for wireless handsets employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. The tests are performed in positions and locations (e.g. worn on the body) as required by the FCC for each model.
The highest SAR value for this model handset as reported to the FCC when tested for use worn on the body in a holder or carry case, is 1.05 W/kg.
Body-worn Operation; This device was tested for typical body-worn operations with the back of the handset kept 1.0 cm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 1.0 cm separation distance between the user's body and the back of the handset. The use of beltclips, holsters and similar accessories should not contain metallic components in its assembly.
The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided. The FCC has granted an Equipment Authorization for this model handset with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this model handset is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/ea/ after searching on FCC ID APYHRO00274.
Additional information on Specific Absorption Rates (SAR) can be found on FCC Radio Frequency Safety website at https://www.fcc.gov/general/radio-frequency-safety-0.

FCC ID Location
The device is electronically labeled and the FCC ID can be displayed in the About Device menu.

CE/FCC Notice

"809SH" here refers to this Wi-Fi router "Pocket WiFi."

Wi-Fi Router

Do not disassemble or modify Wi-Fi router.

Regulatory Information

Hereby, SHARP CORPORATION declares that the radio equipment type 809SH is in compliance with Directive 2014/53/EU.
The full text of the EU declaration of conformity is available at the following internet address:
https://jp.sharp/k-tai/

Manufacturer's Address:
SHARP CORPORATION,
1 Takumi-cho, Sakai-ku, Sakai-shi,
Osaka 590-8522, Japan

Description of Accessories

Item	Description
USB cable	For charging, peripherals, etc.
SIM card	SoftBank SIM card/non-SoftBank SIM cards non-SoftBank SIM cards can be used after SIM-unlocking the Wi-Fi router.

Frequency Range of Supported Bands in EU

Item	Description
WCDMA FDD I	Tx 1922.4 to 1977.6 MHz Rx 2112.4 to 2167.6 MHz
WCDMA FDD VIII	Tx 882.4 to 912.6 MHz Rx 927.4 to 957.6 MHz
LTE Band 1	Tx 1922.5 to 1977.5 MHz Rx 2112.5 to 2167.5 MHz
LTE Band 3	Tx 1710.7 to 1784.3 MHz Rx 1805.7 to 1879.3 MHz
LTE Band 8	Tx 880.7 to 914.3 MHz Rx 925.7 to 959.3 MHz
LTE Band 28	Tx 704.5 to 746.5 MHz Rx 759.5 to 801.5 MHz
WLAN 2.4 GHz	Tx/Rx 2412 to 2472 MHz (BW:20MHz) Tx/Rx 2422 to 2462 MHz (BW:40MHz)

Maximum Transmit Power

Item	Description
WCDMA FDD I	+24 dBm(Power Class3)
WCDMA FDD VIII	+24 dBm(Power Class3)
LTE Band 1	+23 dBm(Power Class3)
LTE Band 3	+23 dBm(Power Class3)
LTE Band 8	+23 dBm(Power Class3)
LTE Band 28	+23 dBm(Power Class3)
WLAN 2.4 GHz	+18.5 dBm

Battery Cautions

Use specified Charger only.
Non-specified equipment use may cause Internal Battery to leak, overheat, burst or ignite, and may cause Charger to overheat, ignite, malfunction, etc.

Battery is built into handset. Do not dispose of handset with ordinary refuse; take it to a SoftBank Shop for appropriate disposal.

Charge handset in ambient temperature 5°C - 35°C; Internal Battery may leak/overheat and performance may deteriorate outside this range.

FCC Notice

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

■FCC Information to User
This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation; if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
1. Reorient/relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

SoftBank Customer Support

■General Information
From a SoftBank handset, dial toll free at 157.

Warranty & Service

Warranty

- Wi-Fi router warranty is for 1 year from date of purchase.
- Repair may be made free of charge under the terms of free repair. See SoftBank Website for terms of free repair. https://cdn.softbank.jp/mobile/set/common/pdf/legal/spguide/common/warranty.pdf (Japanese)
- Warranty covers Wi-Fi router. Cables and complimentary sample accessories are not covered by warranty.

⚠ Precautions

Damages

SoftBank Corp. is not liable for any damages resulting from use of Wi-Fi router.

Accidents/Repair

Files and settings may be lost or altered due to accidents or repairs. Keep a copy etc. of important files. Keep a copy of important files, etc. SoftBank Corp. is not liable for damages resulting from loss or alteration of files or settings due to accident or repair.

Disassembling/Modifying Wi-Fi Router

Disassembling or modifying this Wi-Fi router may be a violation of the Radio Law. Note that SoftBank Corp. does not accept repair requests for modified products.

After-Sales Service

To request repairs, contact Customer Service or a nearby SoftBank Shop. Have details of symptoms ready.

- During the warranty period, repairs are made under the terms of free repair service.
- After the warranty period, if Wi-Fi router can be repaired, repairs will be made at cost. The functional parts necessary to repair the Wi-Fi router will be available for four years generally after the manufacture is discotinued. Repair may not be possible because of a shortage of repair parts even during the warranty period.

💡 Further Inquiry

For more information, contact a SoftBank Shop or Customer Service.

Customer Service

If you encounter any difficulties or are unsure of anything, contact customer service.

General Information

Direct all inquiries to SoftBank, from charges to service information, here.

- From a SoftBank handset, dial toll free at 157
- From a landline/IP phone, dial toll free at 📞 0800-919-0157
- Business hours : 9:00 am - 8:00 pm

SoftBank Technical Support Center

Setup, Operations & Technical Issues:

- From a SoftBank handset, dial toll free at ＊5525
- From a landline/IP phone, dial toll free at 📞 0088-21-5525
- Business hours : Weekdays 9:00 am - 7:00 pm / Sat., Sun. and holidays 9:00 am - 5:00 pm
  *Not available from outside Japan.

Appendix

809SH

Safety Precautions

Safety Precautions

Read safety precautions before using Wi-Fi router. Observe precautions to avoid injury to self or others, or damage to property.

Labels & Symbols

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

Mark	Description
⚠ DANGER	Great risk of death or serious injury[*1] from improper use
⚠ WARNING	Risk of death or serious injury[*1] from improper use
⚠ CAUTION	Risk of minor injury[*2] or damage to property[*3] from improper use

[*1] Serious injury: Refers to loss of sight, injury, burns (high- and low temperature), electric shock, broken bones, injuries with residual aftereffects from poisoning, etc., and injuries requiring hospital admission for treatment or long-term hospital attendance as an outpatient.
[*2] Minor injury: Refers to injuries, burns (high- and low-temperature), electric shock, etc. that do not require hospital admission for treatment or long-term hospital attendance as an outpatient.
[*3] Damage to property: Refers to extended damage to buildings, furniture, livestock, pets, etc.

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

Mark	Descriptions
🚫 Prohibited	Prohibited actions
🚫 Do Not Disassemble	Disassembly prohibited
🚫 Avoid Liquids Or Moisture	Exposure to liquids prohibited
🚫 Do Not Use Wet Hands	Use with wet hands prohibited
❗ Compulsory	Compulsory actions
🔌 Disconnect Power Source	Unplug from outlet

Wi-Fi Router, SIM Card, SIM Removal Tool, Cradle (Optional), USB 3.0 Cable A to C (Optional), USB Conversion Cable C to A (Female) (Optional), AC Charger (Sold Separately)

⚠ DANGER

🚫 Prohibited

Do not use, store, or leave Wi-Fi router/related hardware in a place that reaches high temperatures or where heat collects (e.g. near fire or source of heat, under a kotatsu (blanketed warming table) or bedding, in direct sunlight, inside vehicles on a hot day, etc.).

May cause fire, burns, injury, electric shock, etc.

🚫 Prohibited

Do not put Wi-Fi router/related hardware in or close to a cooking appliance such as a microwave or IH cooking heater, or a high-pressure container such as a pressure cooker.

May cause fire, burns, injury, electric shock, etc.

🚫 Prohibited

Do not cover Wi-Fi router/related hardware with sand, soil, or mud. Do not place directly on sand, soil, or mud. Do not touch Wi-Fi router/related hardware with hand covered with sand.

May cause fire, burns, injury, electric shock, etc.

🚫 Prohibited

Do not charge Wi-Fi router/related hardware while wet with liquids such as water (beverage, sweat, sea water, pet urine, etc.). Do not charge in a place such as bathroom where Wi-Fi router/related hardware can come in contact with water.

May cause fire, burns, injury, electric shock, etc.

Left column:

🚫 Prohibited

Do not subject Wi-Fi router to excessive force or break it. Especially when carrying it in your pocket, do not hit it or press it between other objects.

Internal Battery breakage may cause fire, burns, injury, etc.
* Take additional care in instances such as the following:
· Sitting or squatting with the Wi-Fi router in your pants or skirt pocket
· Wi-Fi router becoming caught in a sliding door or vehicle door when in a jacket pocket
· Stepping on Wi-Fi router when it is on something soft such as a sofa, bed, or futon or on the floor

Do Not Disassemble

Do not disassemble or modify.

May cause fire, burns, injury, electric shock, etc.

🚫 Prohibited

Do not attempt to remove Internal Battery

May cause fire, burns, injury, etc.

🚫 Prohibited

Do not attempt to remove Back Cover

May cause fire, burns, injury, etc.

Avoid Liquids Or Moisture

Keep away from water and other liquids (beverage, sweat, sea water, pet urine, etc.).

May cause fire, burns, injury, electric shock, etc.

Avoid Liquids Or Moisture

Do not put water or other liquids in terminals (beverage, sweat, sea water, pet urine, etc.).

May cause fire, burns, injury, electric shock, etc.

❗ Compulsory

Use specified optional accessories only.

May cause fire, burns, injury, electric shock, etc.

Right column:

⚠ WARNING

🚫 Prohibited

Do not drop, step on, throw or otherwise subject to strong force, impact or vibration.

May cause fire, burns, injury, electric shock, etc.

🚫 Prohibited

Keep terminals away from conductive materials (metal parts, pencil leads, etc.) and do not let dust enter Wi-Fi router/related hardware.

May cause fire, burns, injury, electric shock, etc.

🚫 Prohibited

Do not cover/wrap with bedding, etc. during use or charging.

May cause fire, burns, etc.

❗ Compulsory

If Battery does not charge after specified time, stop charging.

May cause fire, burns, injury, etc. due to overcharging.

❗ Compulsory

Keep Wi-Fi router off and stop charging Battery near places with fire/explosion risk (flammable gases or fine particulates).

Using in a place where flammable gas, etc. generates may cause explosion, fire, etc.

❗ Compulsory

Follow the instructions given by the respective institution regarding the use of Wi-Fi router/related hardware in a gas station.

Do not charge Battery in a gas station.
Be careful not to drop Wi-Fi router/related hardware in a gas station. Never use while refueling a car.
Using in a place where flammable gas, etc. generates may cause explosion, fire, etc.

! Compulsory

Take these actions in case of odd odor, odd sound, smoke, overheating, discoloring or deformation during use, charging, or storage:

· Unplug Wi-Fi router/related hardware.
· Power off.

Failure to do so may cause fire, burns, injury, electric shock, etc.

⚠ CAUTION

🚫 Prohibited

Do not use Wi-Fi router/related hardware when damaged.

May cause fire, burns, injury, etc.

🚫 Prohibited

Do not place Wi-Fi router/related hardware on unstable/uneven surfaces.

Wi-Fi router or related hardware may fall, resulting in injury.

🚫 Prohibited

Do not use or store in a place that is subject to high humidity, excessive dust, or high temperatures.

May cause fire, burns, electric shock, etc.

🚫 Prohibited

A guardian should give children proper instructions and do not allow them to use Wi-Fi router in a wrong way.

May cause injury, etc.

🚫 Prohibited

Do not leave Wi-Fi router and related hardware within the reach of infants.

Be careful especially when storing small components such as SIM Card Tray and SIM Removal Tool.

May cause accidental swallowing, injury, electric shock, etc.

! Compulsory

Wi-Fi router temperature may become high when used continuously or while charging. Avoid continued contact with Wi-Fi router for a long time involuntarily such as by falling asleep, etc.

Wi-Fi router, Internal Battery or AC Charger may become hot while in use or while charging for a long period, and cause redness, itchiness, rash, low-temperature burns, etc. depending on your physical condition.

Wi-Fi Router

⚠ DANGER

🚫 Prohibited

Do not heat or dispose of Wi-Fi router in fire.

May cause fire, burns, injury, etc.

🚫 Prohibited

Do not damage Wi-Fi router by nailing, hammering, stomping on it, or otherwise subjecting it to excessive force.

May cause fire, burns, injury, etc.

❗ Compulsory

If matter inside Wi-Fi router gets into eyes or mouth, immediately rinse with water and consult a doctor immediately.

Matter inside Wi-Fi router may cause blindness or poor health.

⚠ WARNING

🚫 Prohibited

Do not put liquid such as water (beverage, sweat, sea water, pet urine, etc.) or foreign objects such as anything metal or flammable into SIM Card Tray slot.

Insert SIM Card in correct position and orientation.

May cause fire, burns, injury, electric shock, etc.

❗ Compulsory

Power off when boarding aircraft.

Follow the regulations of the airline for use aboard aircraft. Otherwise, Wi-Fi router radio waves may affect an aircraft's electronic equipment. Prohibited usage of Wi-Fi router in aircraft is punishable by law.

❗ Compulsory

Follow medical facility rules regarding use of Wi-Fi router in facilities.

Power off in a prohibited area. Wi-Fi router radio waves may affect electronic equipment or electric medical equipment.

❗ Compulsory

If wearing electric medical equipment, check with the equipment manufacturer or dealer for information about the effects of radio waves.

Wi-Fi router radio waves may affect electric medical equipment.

❗ Compulsory

Power off near electronic devices or equipment operating on high precision control or weak signals.

Wi-Fi router radio waves may cause electronic malfunction, etc.
Take added care near these devices: Hearing aids, implanted cardiac pacemakers, implanted cardioverter defibrillators, other electric medical equipment, and other automatically controlled devices or equipment. When using implanted cardiac pacemakers, implanted cardioverter defibrillators, or other electric medical equipment, check with the equipment manufacturer or dealer for information about the effects of radio waves.

Safety Precautions

809SH

Compulsory

If Display is damaged, be careful of broken glass and exposed interior components.

Touching damaged or exposed parts may cause burns, injury, electric shock, etc.

Compulsory

If the Internal Battery leaks or emits an unusual odor, immediately stop using the product and move it away from any naked flames or fire.

The battery fluid is flammable and could ignite, causing a fire, explosion, etc.

Compulsory

Do not allow a pet, etc. to bite Wi-Fi router.

Battery may ignite, explode, overheat, or leak may cause fire, burns, injury, etc.

⚠ CAUTION

Prohibited

If you damage Display and the internal matter leaks, do not let it get on face or hands, on clothes, etc.

May cause injury to eyes, skin, etc. If internal matter gets into eyes or mouth, or on skin or clothes, rinse with water immediately. If internal matter gets into eyes or mouth, consult a doctor immediately after rinsing with water.

Prohibited

Do not dispose Wi-Fi router together with ordinary trash.

May cause fire, burns, injury, etc. Also, may cause environmental destruction. Bring unnecessary Wi-Fi router into a sales outlet such as a SoftBank Shop or follow the municipality instructions for recycling.

Prohibited

If the substance inside the Internal Battery leaks, do not get the liquid on your skin (face, hands, etc.), clothes, etc.

May result in damage your eyes or skin. If the internal substance comes into contact with your eyes, mouth, skin or clothes, immediately rise the contacted area with clean water. Also, if it comes into contact with your eyes, mouth, etc., seek medical treatment immediately after rising the contacted area.

Prohibited

When removing SIM Card, be careful of SIM Removal Tool tip not to hurt your finger, etc.

Touching SIM Removal Tool tip may cause injury, etc.

Compulsory

If using in vehicles, check with the automobile manufacturer or dealer for information about the effects of radio waves.

Wi-Fi router use may affect electronic equipment. In such case, discontinue Wi-Fi router use immediately.

Compulsory

If you experience any skin irritation associated with Wi-Fi router use, discontinue Wi-Fi router use and consult a doctor.

May cause itchiness, skin irritation, or rashes depending on your physical condition. (See "Material List (Wi-Fi Router).")

Compulsory

View Display in a sufficiently bright location, at a reasonable distance from Display.

May deteriorate vision.

Cradle (Optional), USB3.0 Cable A to C (Optional), USB Conversion Cable C to A (Female) (Optional), AC Charger (Sold Separately)

⚠ **WARNING**

Prohibited

Do not use AC Charger (sold separately)/USB Cable (optional) if these cords are damaged.

May cause fire, burns, electric shock, etc.

Prohibited

Do not touch AC Charger (sold separately)/USB Cable (optional) if thunder is audible.

May cause electric shock, etc.

Prohibited

Do not short-circuit terminals when plugged in. Do not contact terminals with hands, fingers, etc.

May cause fire, burns, electric shock, etc.

Prohibited

Do not place heavy objects on or pull AC Charger (sold separately)/USB Cable (optional) cords.

May cause fire, burns, electric shock, etc.

Prohibited

Do not allow contact with metal such as metal strap when connecting/disconnecting AC Charger (sold separately) to/from outlet.

May cause fire, burns, electric shock, etc.

Prohibited

Do not use voltage converter used for international travel for AC Charger (sold separately).

May cause ignition, overheating, electric shock, etc.

Prohibited

Do not apply excessive force where Wi-Fi router is connected to AC Charger (sold separately).

May cause fire, burns, injury, electric shock, etc.

Safety Precautions

Do Not Use Wet Hands

Do not touch AC Charger (sold separately) cord/USB Cable (optional), terminals, or power plug with wet hands.

May cause fire, burns, electric shock, etc.

Compulsory

Use specified power supply and voltage.

When charging overseas, use AC Charger designed for overseas use.

Incorrect power supply and voltage may cause fire, burns, electric shock, etc.
AC Charger (sold separately): AC100V (Plug in household AC outlet only)
AC Charger for overseas use: AC100V - 240V (Plug in household AC outlet only)

Compulsory

Clean dusty power plug or USB plug.

Continued use may cause fire, burns, electric shock, etc.

Compulsory

Plug AC Charger (sold separately) firmly into outlet.

Failure to do so may cause fire, burns, electric shock, etc.

Compulsory

Do not remove power plug by pulling on AC Charger cord or otherwise applying excessive force. Instead, hold power plug by connector to remove.

Pulling the AC Charger cord could damage it, possibly leading to fire, burns, electric shock, etc.

Compulsory

Connect/disconnect AC Charger (sold separately) or USB Cable (optional) straight with the terminals without pulling on cord or otherwise applying excessive force.

Failure to do so may cause fire, burns, injury, electric shock, etc.

Compulsory

If charging terminal is bent or otherwise deformed, stop using AC Charger immediately. Do not fix the deformed shape to use it.

May cause short circuit, resulting in fire, burns, injury, electric shock, etc.

Disconnect Power Source

Unplug power cable if you are not going to use it.

If power cable is left plugged in, it may cause fire, burns, injury, electric shock, etc.

Disconnect Power Source

If liquid such as water (drinking water, sweat, seawater, urine of pets, etc.) gets on equipment, immediately disconnect the power plug from an outlet.

Liquid on equipment may result in short-circuit causing fire, burns, electric shock, etc.

Disconnect Power Source

Disconnect power plug from outlet before cleaning.

Cleaning with power plug connected may cause fire, burns, electric shock, etc.

⚠ CAUTION

Prohibited

Do not touch AC Charger (sold separately) for long periods with it connected to outlet.

May cause burns.

SIM Card

⚠ CAUTION

Compulsory

When handling SIM Cards, be careful of the cut surface so as not to hurt your body parts such as fingers.

Cut surface may be sharp and may cause injury, etc.

SIM Removal Tool

⚠ WARNING

🚫
Prohibited

Tip of SIM Removal Tool is pointed. Do not use pointed at yourself or others.

Doing so may allow it to strike yourself or others, causing injuries or loss of sight.

Wi-Fi Router Use & Electronic Medical Equipment

⚠ WARNING

❗
Compulsory

Persons with an electric medical device such as an implanted pacemaker or implanted cardioverter defibrillator should keep Wi-Fi router at least 15 cm away from the device.

Wi-Fi router radio waves may affect the electric medical device.

❗
Compulsory

When using electric medical equipment (other than implanted cardiac pacemakers/defibrillators) outside medical facilities, check with the equipment manufacturer for information about the effects of radio waves.

Wi-Fi router radio waves may affect electric medical equipment.

❗
Compulsory

Power Wi-Fi router off so as not to emit radio waves when it is difficult to keep distance of at least 15 cm from others such as in a crowd.

There may be someone who has an electric medical device such as implanted pacemaker or implanted cardioverter defibrillator around you. Wi-Fi router radio waves may affect the electric medical device.

❗
Compulsory

Follow medical facility rules regarding use of Wi-Fi router in facilities.

Wi-Fi router radio waves may affect electric medical equipment.
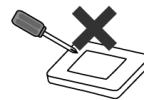
General Notes

For Safety

Misuse of Wi-Fi router may cause overheat or breakage of Wi-Fi router, or electric shock, resulting in death or serious injury. Read the following descriptions and "Safety Precautions" for proper use.
Avoid the following usage:

· Do not touch terminal with metal objects.
  Do not touch terminal with metal objects such as hairclip. May cause fire or malfunction due to short circuit.

· Do not disassemble or modify.
  Do not open cabinet or modify. May cause electric shock or injury. Contact SoftBank for repair.

· Do not apply heat.
  Do not put Wi-Fi router in cooking appliances such as a microwave to dry Wi-Fi router. Do not use Wi-Fi router in a location that is subject to high temperatures.

· Do not use products other than specified.
  Use only products such as AC Charger that is specified by SoftBank.

Follow the instructions:

· In aircraft
  When aboard aircraft, use Wi-Fi router appropriately according to the instructions of the airline. Wi-Fi signals may affect flight safety.
· In hospital
  In a hospital, use Wi-Fi router appropriately according to the instructions of the healthcare facility. Wi-Fi signals may affect medical equipment.

Do Not Disturb Others

Remember consideration for people around you.

· In train or bus
  In a train or bus, use Wi-Fi router appropriately according to the notice.
· In crowded place
  Turn off Wi-Fi router in advance. Wi-Fi signals may affect pacemaker, etc.

Safety Precautions

General Use

- If your SIM Card or Wi-Fi router (with SIM Card inserted) is lost or stolen, suspend your service immediately. For details, contact Customer Service.
- Wi-Fi router transmissions may be disrupted inside buildings, tunnels, or underground, or when moving into/out of such places. This may affect transmissions.
- Use Wi-Fi router without disturbing others.
- Wi-Fi routers are radios as stipulated by the Radio Law. Under the Radio Law, Wi-Fi routers must be submitted for inspection upon request.
- Wi-Fi router use near landlines, TVs or radios may cause interference.
- Display uses liquid crystal.
  When wearing polarized sunglasses and depending on the angle, the screen may appear dark or distorted.
- An export license may be required to carry Wi-Fi router into other countries if it is to be used by or transferred to another person. However, no such license is required when taking Wi-Fi router abroad for personal use on a vacation or business trip and then bringing it back.
  Export control regulations in the United States provide that an export license granted by the US government is required to carry Wi-Fi router into Cuba, Iran, North Korea, Sudan or Syria.
- If Wi-Fi router is used abroad, changing settings according to the law of country is required. For settings, see "Setting Wi-Fi."
- Communication may slow down or may become unavailable due to heavy traffic or under certain circumstances.

Handling

- User Wi-Fi router within 5℃ - 35℃ and 45% - 85% humidity.
- Avoid extreme temperature or direct sunlight.
- Wi-Fi router/Internal Battery may become warm during operation or while charging. This is normal.
- Warranty does not cover malfunctions resulting from misuse.
- Clean Wi-Fi router with a soft dry cloth. Alcohol/solvent use may fade color/print.
- Avoid scratching Display.
- Avoid heavy objects or excessive pressure. May cause malfunction or injury.
  - Do not sit on Wi-Fi router in back pants pocket.
  - Do not place heavy objects on Wi-Fi router inside handbags, packs, etc.
- Wi-Fi router back cover is not removable. Do not try to remove it; may cause damage or malfunction.
- Connect only specified products to Jacks. Other devices may malfunction or cause damage.
- If thunder is audible while outdoors, discontinue use; there is a risk of lightning strike or electric shock.

Internal Battery

- To help maintain performance and life of Internal Battery, do not store in the following conditions.
  - Full (immediately after charging is complete)
  - Exhausted (too low to power on Wi-Fi router)
- Battery level should be at approximately 40% for optimal storage.
- Depending on use, bulges may appear near end of battery life; this does not affect safety.
- Internal Battery is a consumable item; may need to be replaced if operating time shortens noticeably. Internal Battery is not user replaceable; its replacement incurs fees and requires Wi-Fi router submission to a SoftBank Shop or other appropriate servicer. For details, see Customer Service or contact a SoftBank Shop.

Lithium Ion Battery

- This product requires a lithium-ion battery. Lithium-ion batteries are recyclable. To recycle a used lithium-ion battery, take it to any shop displaying the recycling symbol.

Li-ion 00

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- If Charging/Notification Lamp is blinking, charging is not working properly. Make sure that you are using AC Charger (sold separately). If charging fails even by using AC Charger (sold separately), see Customer Service or contact a SoftBank Shop.
- SoftBank Corp. is not liable for problems resulting from charging Wi-Fi router abroad.

Touchscreen

Wi-Fi router Display is Touchscreen.
If Display is wet, wipe it with a soft cloth.

- Touchscreen may not respond in these situations:
  - Use with gloves/long fingernails
  - Use of pens, pencils or sharp objects
  - Use with objects on/against Display
  - Use while wet
- To prevent malfunctions, do not:
  - Touch Display with wet fingers
  - Use if Display is wet
  - Subject Display to force/pressure
  - Place a sticker or shield (commercially-available protective film, privacy protector shield, etc.) on Display
- In the following cases, press Power Key to turn off Display, press Power Key again to turn on Display and then operate Wi-Fi router.
  - Wi-Fi router operates automatically without touch input
  - Wi-Fi router does not respond to touch input

SIM Removal Tool

· Do not insert SIM Removal Tool in hole other than removal hole in SIM Card Tray or Reset Button hole.
May cause malfunction or damage.
· Do not apply excessive force.
May cause malfunction or damage.
· Follow local rules regarding collection when disposing.
· Do not use SIM Removal Tool for any purpose other than described in this guide.
May cause malfunction or damage.
· Do not use SIM Removal Tool in other mobile terminals.
May cause malfunction or damage to mobile terminal.

Resetting Settings

Settings that are reset cannot be restored. Perform reset operation carefully.
It is recommended that you back up important data beforehand. Log in to Web UI and from "Settings" tab ➡
Device Settings ➡ Backup/Restore ➡ Backup .

Technical Regulations Conformity Certification

Wi-Fi router conforms to technical regulations pursuant to the Radio Law and the Telecommunications Business Law.
To check technical regulations conformity certification information (e.g., ⊜):
Home Screen ➡ About Device

Voluntary Control of Radio Interference

Wi-Fi router conforms to technical regulations pursuant to the Rules for Voluntary Control Measures of VCCI; the corresponding conformity mark is shown on electronic rating plate on Wi-Fi router. To check the electronic rating plate:
Home Screen ➡ About Device

Wi-Fi (Wireless LAN)

Wireless LAN (hereafter "Wi-Fi") uses radio waves to enable communication between compatible devices within range. However, it is advisable for the user to configure security settings to avoid risk of data interception.

· Do not use Wi-Fi near electrical appliances, audiovisual equipment or office automation equipment; may affect Wi-Fi transmission speed, availability, clarity, etc. (Especially when a microwave oven is in use.)
· If there are multiple access points nearby, Wi-Fi router may not detect access points correctly.

■ Precautions
The frequency band utilized by Wi-Fi router is shared with industrial, scientific or medical equipment, including household microwave ovens, and used by radio stations, amateur radio stations, etc. (hereafter "other radio stations"). To avoid interference with other radio equipment, note the following:
1. Before using Wi-Fi, visually check that no other radio stations sharing the same frequency band are in use nearby.
2. Should interference occur between Wi-Fi router and other radio stations, move it to a different location or disable Wi-Fi immediately.
3. For additional information and support, contact Customer Service.

· Frequency Band
This radio station utilizes 2.4 GHz and 5 GHz band.

· 2.4 GHz band
Wi-Fi router uses DS-SS/OFDM modulation. Maximum interference range is 40 m or less.

2.4DS/OF4

Channels available with the 2.4 GHz band on Wi-Fi router are between 1 to 13.

· Channels in 5 GHz band
In the 5 GHz frequency band, three channels of 5.2 GHz/5.3 GHz/5.6 GHz band (W52/W53/W56) are available.
- W52 (5.2 GHz band / 36, 40, 44, 48 ch)
- W53 (5.3 GHz band / 52, 56, 60, 64 ch)
- W56 (5.6 GHz band / 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140 ch)
If your Wi-Fi compatible device cannot use 5 GHz band, set Wi-Fi router setting so that 2.4 GHz band is available.
Use of 5.2 GHz or 5.3 GHz band (W52/W53) for outdoor communication is prohibited by the Radio Law.
When W53/W56 in 5 GHz band is used, channel may be automatically changed in order to avoid interference with weather radars. In such a case, communication is temporarily disconnected (DFS function).

· Available channels vary depending on the country.
· For use aboard aircraft, contact the airline beforehand.
· In some countries/regions, Wi-Fi use is restricted. When using Wi-Fi in other countries, check local regulations beforehand.

Open Source Software

· Wi-Fi router contains software based on GNU General Public License (GPL) and other licenses.
To check details of relevant software licenses, see the following website.
http://k-tai.sharp.co.jp/support/developers/oss/809sh/index.html (Japanese)
· The source code of software based on GPL is provided on the following website free of charge.
http://k-tai.sharp.co.jp/support/developers/oss/809sh/index.html (Japanese)

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