

BF-01D User Manual

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Thank you for purchasing the BF-01D.

This manual describes product installation and its default settings. It also provides troubleshooting information. Please always read this manual before using the product.

Introduction

Main Features

This section describes the main product features.

- Supports NTT Docomo "Xi". (When receiving: Max. 37.5 Mbps; When sending: Max. 12.5 Mbps)
 - * The communication speeds are the maximum values in sending and receiving standards. However, these do not indicate actual communication speeds. Data transmission is provided over a best-effort network. For that reason, actual communication speeds may vary according to the communication environment and the traffic load on the network.
 - * When outside of the Xi area, this can also be used in a FOMA high-speed area (when receiving: Max. 14 Mbps; when sending: Max. 5.7 Mbps).
- The Internet connection automatically switches in public wireless LAN areas, such as Mzone, from the Xi line or FOMA line to the public wireless LAN.
- The included cradle provides a wired port connection, and recharges the product.
- Connects up to 12 wireless LAN devices, such as personal computers and game consoles.
- · Connects to wireless LAN devices with one touch using AOSS or WPS.

Operating Environment

This section describes the product operating environment.

Supported Devices

iPad, iPod touch, game console (Nintendo 3DS™, Nintendo DS®, PSP® "PlayStation Portable"), and devices that support wireless LAN.

Supported OS (Personal Computers)

Windows 7 (32 bit/64 bit), Vista (32 bit/64 bit), XP (32 bit), Mac OS X (10.4/10.5/10.6/10.7)

- * Supports Windows 7 Starter/Home Premium/Professional/Ultimate.
- * Supports Windows Vista Home Basic/Home Premium/Business/Ultimate.
- Windows XP must have Service Pack 3 or later installed.

Supported Browsers

Internet Explorer 7/8/9

Firefox 3.5.x/3.6.x/4/5

Nintendo DS Browser, Nintendo DSi Browser, Nintendo 3DS Internet Browser PSP® Internet Browser

Safari 3.x/4.x/5.x (Mac OS/iPad/iPod touch)

* To change the product's settings, or to check the setting contents, use Internet Explorer 7/8/9, or Firefox 3.5.x/3.6.x/4/5 (Windows 7/Vista/XP). Browsers provided in game console or cell phones cannot implement all product settings.

Main Unit Accessories

Before using this product, check that all of the accessories are included.



Mobile Wi-Fi Router (BF-01D) Unit (Rear Cover BF02, Includes Warranty)



Desktop Cradle BF02 (Includes Warranty)



AC Adapter BF01 (Includes Warranty)



Battery Pack BF01



USB Cable BF01



LAN Cable (Free Sample)



User Manual (This Manual)

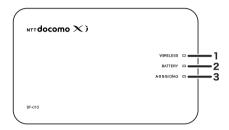


Mobile Device Connection Guide

Note If separate, additional information is included, refer to that.

Part Names and Functions

Front Panel



1. WIRELESS LED

Glowing (blue) : When in Xi area

Glowing (purple) : During packet communication (with no sent or received

data

Glowing (light blue): When in FOMA area
Glowing (green): When in wireless LAN area

Glowing (red) : When outside of Xi area, FOMA line and wireless LAN area, and

when not connected to wired Internet

Glowing (yellow) : When in power saving mode
Flashing (blue) : When communicating on Xi line
Flashing (green) : When communicating on wireless LAN

Off : When connected to wired Internet

2. BATTERY LED

Glowing (blue) : Battery capacity is 50% or higher

Recharging is completed and the power is turned on

Glowing (green) : Battery capacity is 50 - 25% Glowing (red) : Battery capacity is 25 - 10% Flashing (red) : Battery capacity is 10% or lower

Flashing (purple) : Updating the firmware

Glowing (light blue): Recharging

Glowing (purple) : Stop recharging because of the temperature error
Off : Recharging is completed and the power is turned or

f : Recharging is completed and the power is turned off

^{*} Battery capacity is a general indicator.

3. AOSS/DIAG LED

Glowing (yellow) : Security key exchange succeeds (AOSS/

WPS succeeds)/Wireless LAN security setting

completed

Flashing Two Times (blue) : This product can exchange security keys.

(LAN Side: AOSS/WPS Idling) (Internet Side: AOSS Idling) *1

Continuous Flashing (blue) : Failed to exchange security keys (AOSS/WPS failed)

Flashing (red) : The number of flashes indicates the status of the

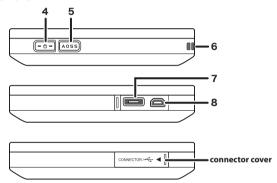
product.

Off : Wireless LAN security is not set.

Flashing (red) status	Content	Status
Continuous Flashing *2	Booting up system Saving settings Initializing Accessing internal storage region	
Flashing Three Times *3	Wired LAN Error	Wired LAN controller is malfunctioning.
Flashing Four Times *3	Wireless LAN error	Wireless LAN controller is malfunctioning.
Flashing Five Times	IP Address Setting Error	Communication is not possible because the network addresses are the same on the Internet side and the LAN side. Change the product's LAN-side IP address setting.
Flashing Six Times	Temperature Error	The internal product temperature is high. Turn the power to the product off and allow it to cool for a while before using it.

- *1 Devices idling with AOSS switch to flashing two times (yellow) when detected by the Internet side of the product.
- *2 Do not turn off the power when the device is continuously flashing. Doing so can damage it.
- *3 When the AC adapter is disconnected from the device, turn off the power to it, and remove the battery pack. Return the battery pack to its original position after waiting for a while.

Side



4. Power Button

When the power is off, hold down the power button for approximately three seconds to turn the power on. When operating this device, hold down the power button for approximately three seconds to turn the power off.

5. AOSS Button

When the power is on, hold down the button (for approximately three seconds) until the AOSS/DIAG LED flashes in blue to enter a status (AOSS operating status) where security keys can be exchanged.

6. Strap Hole

Attaches commercially available straps.

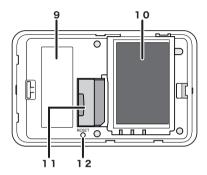
7. Cradle Connector

Connects the included cradle.

8. mini USB Connector

Connects the included AC adapter or a USB cable.

Back Side



9. Default Value Label

Lists this unit's SSID (default value) and encryption key (default value) and the like

10. Battery Box

Holds the included battery pack.

11. UIM Card Slot

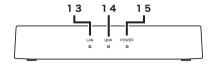
For inserting a Docomo UIM card.

*This device does not support the use of FOMA cards. If you have a FOMA card, please replace it from your Docomo vendor.

12. RESET Switch

When the power to this device is on, hold down the RESET button (for approximately three seconds) until the AOSS/DIAG LED flashes in red to initialize the settings.

Cradle Front Side



13. LAN LED

Glowing (green) : When the wired port is set as the LAN port

Off : When the wired port is set as the INTERNET port

14. LINK LED

Glowing (green) : When the wired port is linked

Flashing (green) : When the wired port is communicating

15. POWER LED

Glowing (green) : When the included AC adapter is connected

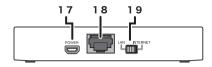
Cradle Top



16. Cradle Connector

Connects the main unit's cradle connector.

Cradle Back Side



17. POWER Connector

Connects the included AC adapter.

18. Wired Port

Switch to operate this as the LAN port or the INTERNET port by using the onoff switch.

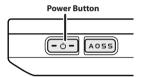
19. On-off Switch

Switch to use the wired port either as the LAN port or the INTERNET port.

Installing the BF-01D

Power ON/OFF

Turn the power ON/OFF using the power button.



When the power is off, hold down the power button for approximately three seconds to turn the power on.

When operating this device, hold down the power button for approximately three seconds to turn the power off.

Note In the default setting, if no wireless device is connected to the product for approximately one minute, it will automatically switch to standby mode. Operations such as connecting to the Internet do not work while the unit is in standby mode. But the system will recover to its normal operating status either by pressing the power button or by connecting a wireless device to the product. However, the system will not shift to standby mode while power is being supplied or when it is connected to a wired port.

Wireless Connection to the BF-01D

Wireless Connection to a Personal Computer

This section describes the procedures for connecting this product wirelessly to a personal computer running Windows, using AOSS/WPS (push-button type) as an example. Setting methods vary according to the version of Windows that is running.

For Windows 7/Vista

Follow the procedure below to connect to this device using AOSS/WPS (push-button type) on a personal computer running Windows 7 or Vista.

- Note In setting AOSS/WPS (push-button type), the personal computer and this device establish a 1-to-1 relationship. For that reason, you cannot connect another device with AOSS/WPS (push-button type) while it is being set. To connect multiple devices to one BF-01D unit, connect another device after completing the AOSS/WPS (push-button type) connection.
- 1 Select [Start] - [(All) Programs] - [BUFFALO] - [AirStation Utility] -[Client Manager V].

When the screen below is displayed, click [Create connection destination].



3 When the "User Account Control" screen is displayed, click [Yes] or [Continue].



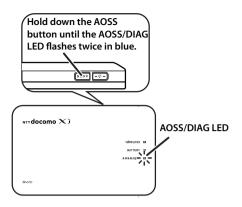
4 Click the automatic security setting button displayed in the screen.



When the screen below is displayed, hold down the AOSS button for approximately 2 seconds until the AOSS/DIAG LED flashes. Release the button when the LED flashes.



* The product image in the screen is an example. The product and AOSS button position may differ from your system, so check the position of the button in advance.



 $oldsymbol{6}$ The device is automatically detected, and connected.



* The product image in the screen is an example.

7 Wait for the connection to complete.



- * The product image in the screen is an example.
- When "Connection with AOSS completed" or "Connection with WPS push-button type completed" is displayed, check the name of the connection destination, and click [Save and close].



Note The connection destination name can be freely set.

9 When "Wireless connection destination creation completed" is displayed, click [Close].



10 If a screen "Set Network Location" is displayed, click the location that matches the environment where the devices will be used. (In the example here, click "Home Network".)



- 11 If the "User Account Control" screen is displayed, click [Yes] or [Continue].
- 12 If the screen below is displayed, click [Close].



This completes connecting to this product.

Note If connecting to this device fails, the AOSS/DIAG LED will continuously flash in blue for approximately 30 minutes, and a screen like the one below is displayed. In such case, click "Start creating wireless connection from the beginning" and implement the procedures again from step 4 (PageP14).



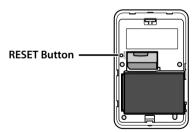
* Sample screen.

Troubleshooting

Initializing the Settings

Use the following procedures to initialize the settings (Reset).

- 1 Check that the power to the device is on.
- Remove the back side cover.
- 3 Hold down the RESET button (for approximately three seconds) until the AOSS/DIAG LED flashes in red.



4 After about one minute, check that the AOSS/DIAG LED is lit in yellow.

This completes initialization of this product.

5 Appendix

Product Specifications

Main Unit/Cradle

Wireless Interface (LAN Side)	Compliance Standards Maximum Data Transfer Speed (Theoretical Value) Mode Frequency Range	IEEE802.11b / IEEE802.11g / IEEE802.11n ARIB STD-T66 (IEEE802.11b/g) IEEE802.11b 11Mbps IEEE802.11g 54Mbps IEEE802.11n 150Mbps Access Point (AP) Mode 2412 - 2472 MHz 1 - 13 channels * When being used overseas (international roaming), the range is restricted to 2412 - 2462MHz and 1 - 11 channels. * Basically, signals do not cross-talk (or interfere) with those of other devices, such as cell phones, cordless telephones, televisions, radios and the like, but if these devices are wireless with a 2.4 GHz band, there is the possibility that
	No. of Ports	cross-talk can occur.
	No. of Devices That Can Be Connected Simultaneously	12 Devices
	Security	WPA2-PSK (TKIP/AES), WPA-PSK (TKIP/AES), WPA/ WPA2 mixed PSK (AES), WEP (64bit/128bit) privacy separator, ANY connection rejection, MAC access restrictions (up to 16 devices)

Interface (Internet Side) Standards IEEE802.11n ARIB STD-T76 (IEEE802.11a) ARIB STD-T66 (IEEE802.11b/g) Maximum Data Transfer Speed (Theoretical Value) IEEE802.11a Standards Transfer Speed (Theoretical IEEE802.11b IEEE802.11b IEEE802.11c IIIIbbps IEEE802.11c IEEE802.11c IIIbbps IEEE802.11c IIbbps IIbb		T -	ì		
ARIB STD-T71 (IEEE802.11a) ARIB STD-T66 (IEEE802.11b/g) Maximum Data Transfer Speed (Theoretical IEEE802.11b 11Mbps (Theoretical IEEE802.11n 150Mbps * IEEE802.11n 150Mbps * IEEE802.11a cannot be used when the device is set for international roaming. Mode Station (STA) Mode Frequency Range Frequency Range 5 GHz Band W52 36/40/44/48 channels (5180 - 5240MHz) W53 52/56/60/64 channels (5260 - 5320MHz) 2.4 GHz Band 1 - 13 channels (2412 - 2472MHz) * When the device is being used overseas (international roaming), the range is restricted to 2412 - 2462MHz and 1 - 11 channels. Also, cannot be used in 5GHz band. * Basically, signals do not cross-talk (or interfere) with those of other devices, such as cell phones, cordless telephones, televisions, radios and the like, but if these devices are wireless with a 2.4 GHz band, there is the possibility that cross-talk can occur. No. of Ports 1 Port Security WPA2-EAP (TKIP/AES), WPA-EAP (TKIP/AES), WPA2-	Wireless	Compliance	IEEE802.11a / IEEE802.11b / IEEE802.11g /		
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		No. of Ports	1 Port		
DCV (TVID (AEC) N/DA DCV (TVID (AEC) 002 1V /FAD		Security	WPA2-EAP (TKI	P/AES), WPA-EAP (TKIP/AES), WPA2-
PSK (TKIP/AES), WPA-PSK (TKIP/AES), 8U2.TX/EAP			PSK (TKIP/AES),	WPA-	PSK (TKIP/AES), 802.1X/EAP
(WEP), WEP (64bit/128bit)			(WEP), WEP (64l	bit/12	8bit)

Mobile Interface	Compliance Standards	LTE (Cat.3) / W-CDMA (R99) / HSDPA (Cat.10) / HSUPA (Cat.6)	
	Maximum Data Transfer Speed	LTE (Indoor) UP: 25 Mbps Down: 75 Mbps LTE (Outdoors) UP: 12.5 Mbps Down: 37.5 Mbps	
	(Theoretical	W-CDMA UP: 384 kbps Down: 384 kbps	
	Value)	HSDPA 14.4 Mbps	
		HSUPA 5.7 Mbps	
		* LTE cannot be used when the device is set for international roaming.	
	Frequency	Band I 2100 MHz UP : 1920 - 1980 MHz	
	Range	Down : 2110 - 2170 MHz	
		Band V 850 MHz UP : 824 - 849 MHz	
		Down : 869 - 894MHz	
		Band VI 800 MHz UP : 830 - 840 MHz	
		Down : 875 - 885MHz	
	No. of Ports	1 Port	
Cradle	Compliance	IEEE802.3u (100BASE-TX)	
	Standards	IEEE802.3 (10BASE-T)	
	Maximum Data	10/100 Mbps (Automatic Recognition)	
	Transfer Speed		
	(Theoretical		
	Value)		
	No. of Ports	1 Port (Supports AUTO-MDIX)	
Supported	UIM Card	Docomo UIM Card	
Other Unit External		mini USB (Supports USB 1.1/2.0) x 1	
Interfaces			
Built-in Flash Region Approximately 16 GB		Approximately 16 GB	
Power	ower AC100V ±10% 50/60Hz (When using AC ada		
		BF-01D Dedicated Battery (When using battery	
		pack)	
Consumption	on Current	620 mA (Max)	

Continuous	When	When in LTE Communication
Communi-	Communicating	Approximately 4 Hours
cation Time		When in 3G communication
		Approximately 5.5 Hours
		* Operating times vary according to the environment of use.
	When in Standby	Approximately 30 Hours
		* Operating times vary according to the environment of use.
Operating En	vironment	Temperature: 0 - 35°C
		Humidity: 10 - 85% (no condensation)
External	Main Unit	Approximately 108 (W) x 68 (H) x 20 (D) mm
Dimensions	Cradle	Approximately 115 (W) x 21 (H) x 50 (D) mm
Weight	Main Unit	Approximately 143 g (When battery pack is installed)
	Cradle	Approximately 43g

Software licensed by GNU General Public License (GPL) or GNU Lesser General Public License (LGPL) is included with this product. For details on this software, see NTT's homepage (http://www.nttdocomo.co.jp/).

Battery Pack

Part Name	Battery Pack BF01
Battery Type	Lithium-ion Battery
Nominal Voltage	DC 3.7 V
Nominal Capacity	1880 mAh

AC Adapter

Part Name	AC Adapter BF01
Input	AC100 - 240V 50/60Hz 11.2 - 14.8VA
Output	DC 5 V 1 A

Export Administration Regulations

This product and its accessories may be subject to Japan's Export Administration Regulations (Foreign Exchange and Foreign Trade Control Law). It also may be subject to American Re-exporting Regulations (Export Administration Regulations). To export or re-export this product and its accessories, use the necessary procedures at your own responsibility and cost. For details on procedures, please contact the Ministry of Economy, Trade and Industry or the U.S. Department of Commerce.

Regulatory Information

Federal Communications Commission (FCC) Statement

15.21

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

15.105(b)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

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
- this device must accept any interference received, including interference that may cause undesired operation of the device.

FCC RF Radiation Exposure Statement:

For body worn operation, this device has been tested and meets FCC RF exposure guidelines when used with an accessory that contains no metal and that positions the device a minimum of 1.0 cm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

SAR information: 0.573 W/Kg (1g)

CE Marking

This device has been tested to and conforms to the regulatory requirements of the European Union and has attained CE Marking. The CE Mark is a conformity marking consisting of the letters "CE". The CE Mark applies to products regulated by certain European health, safety and environmental protection legislation. The CE Mark is obligatory for products it applies to: the manufacturer affixes the marking in order to be allowed to sell his product in the European market.

This product conforms to the essential requirements of the R&TTE directive 1999/5/EC in order to attain CE Marking. A notified body has determined that this device has properly demonstrated that the requirements of the directive have been met and has issued a favorable certificate of expert opinion. As such the device will bear the notified body number 0560 after the CE mark

The CE Marking is not a quality mark. Foremost, it refers to the safety rather than to the quality of a product. Secondly, CE Marking is mandatory for the product it applies to, whereas most quality markings are voluntary.

Marking: The product shall bear the CE mark, the notified body number(s) as depicted to the right. CE 0560.

SAR information: 0.637 W/Kg (10g)