



Customer Release Note for Firmware 2.4.0

AirPrime BX310x



SIERRA
WIRELESS

41112820
1.00
October 03, 2018

Important Notice

Due to the nature of wireless communications, transmission and reception of data can never be guaranteed. Data may be delayed, corrupted (i.e., have errors) or be totally lost. Although significant delays or losses of data are rare when wireless devices such as the Sierra Wireless modem are used in a normal manner with a well-constructed network, the Sierra Wireless modem should not be used in situations where failure to transmit or receive data could result in damage of any kind to the user or any other party, including but not limited to personal injury, death, or loss of property. Sierra Wireless accepts no responsibility for damages of any kind resulting from delays or errors in data transmitted or received using the Sierra Wireless modem, or for failure of the Sierra Wireless modem to transmit or receive such data.

Safety and Hazards

Do not operate the Sierra Wireless modem in areas where cellular modems are not advised without proper device certifications. These areas include environments where cellular radio can interfere such as explosive atmospheres, medical equipment, or any other equipment which may be susceptible to any form of radio interference. The Sierra Wireless modem can transmit signals that could interfere with this equipment. Do not operate the Sierra Wireless modem in any aircraft, whether the aircraft is on the ground or in flight. In aircraft, the Sierra Wireless modem **MUST BE POWERED OFF**. When operating, the Sierra Wireless modem can transmit signals that could interfere with various onboard systems.

Note: Some airlines may permit the use of cellular phones while the aircraft is on the ground and the door is open. Sierra Wireless modems may be used at this time.

The driver or operator of any vehicle should not operate the Sierra Wireless modem while in control of a vehicle. Doing so will detract from the driver or operator's control and operation of that vehicle. In some states and provinces, operating such communications devices while in control of a vehicle is an offence.

Limitations of Liability

This manual is provided "as is". Sierra Wireless makes no warranties of any kind, either expressed or implied, including any implied warranties of merchantability, fitness for a particular purpose, or noninfringement. The recipient of the manual shall endorse all risks arising from its use.

The information in this manual is subject to change without notice and does not represent a commitment on the part of Sierra Wireless. SIERRA WIRELESS AND ITS AFFILIATES SPECIFICALLY DISCLAIM LIABILITY FOR ANY AND ALL DIRECT, INDIRECT, SPECIAL, GENERAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS OR REVENUE OR ANTICIPATED PROFITS OR REVENUE ARISING OUT OF THE USE OR INABILITY TO USE ANY SIERRA WIRELESS PRODUCT, EVEN IF SIERRA WIRELESS AND/OR ITS AFFILIATES HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR THEY ARE FORESEEABLE OR FOR CLAIMS BY ANY THIRD PARTY.

Notwithstanding the foregoing, in no event shall Sierra Wireless and/or its affiliates aggregate liability arising under or in connection with the Sierra Wireless product, regardless of the number of events, occurrences, or claims giving rise to liability, be in excess of the price paid by the purchaser for the Sierra Wireless product.

Customer understands that Sierra Wireless is not providing cellular or GPS (including A-GPS) services. These services are provided by a third party and should be purchased directly by the Customer.

SPECIFIC DISCLAIMERS OF LIABILITY: CUSTOMER RECOGNIZES AND ACKNOWLEDGES SIERRA WIRELESS IS NOT RESPONSIBLE FOR AND SHALL NOT BE HELD LIABLE FOR ANY DEFECT OR DEFICIENCY OF ANY KIND OF CELLULAR OR GPS (INCLUDING A-GPS) SERVICES.

Patents

This product may contain technology developed by or for Sierra Wireless Inc.

This product includes technology licensed from QUALCOMM®.

This product is manufactured or sold by Sierra Wireless Inc. or its affiliates under one or more patents licensed from MMP Portfolio Licensing.

Copyright

© 2018 Sierra Wireless. All rights reserved.

Trademarks

Sierra Wireless®, AirPrime®, AirLink®, AirVantage® and the Sierra Wireless logo are registered trademarks of Sierra Wireless, Inc.

Windows® and Windows Vista® are registered trademarks of Microsoft Corporation.

Macintosh® and Mac OS X® are registered trademarks of Apple Inc., registered in the U.S. and other countries.

QUALCOMM® is a registered trademark of QUALCOMM Incorporated. Used under license.

Other trademarks are the property of their respective owners.

Contact Information

Sales information and technical support, including warranty and returns	Web: sierrawireless.com/company/contact-us/ Global toll-free number: 1-877-687-7795 6:00 am to 5:00 pm PST
Corporate and product information	Web: sierrawireless.com

Consult our website for up-to-date product descriptions, documentation, application notes, firmware upgrades, troubleshooting tips, and press releases: www.sierrawireless.com

Document History

Version	Date	Updates
1.00	October 03, 2018	Creation, New Release Candidate 2.4.0



Contents

CONTENTS	4
LIST OF TABLES	5
1. INTRODUCTION	6
1.1. Document Scope	6
1.2. Document Audience	6
1.3. New Features/Enhancements	6
2. ABBREVIATIONS AND DEFINITIONS	7
3. RELATED DOCUMENTATION	8
4. COMPATIBILITY	9
5. SOFTWARE RELEASE DESCRIPTION	10
5.1. Release Identification	10
5.2. Software Tools Versions	10
6. SOFTWARE CHANGES DESCRIPTION	11
6.1. Validated Corrections/Improvements	11
6.2. New AT Commands – Release R2.4.0	12
6.2.1. Legacy Pairing PIN Configuration (BX310x-546).....	12
6.3. Modified AT Commands – Release R2.4.0	14
6.3.1. Closing_type = 0 unsupported (BX310x-905).....	14
6.4. New AT Commands – Release R2.3.0	15
6.4.1. BT Power Saving (BX310x-638)	15
6.4.2. BT Transmit Power Setting (BX310x-656).....	15
6.4.3. BLE Transmit Power Setting (BX310x-657).....	16
6.5. Modified AT Commands – Release 2.3.0	18
6.5.1. Implement TLS for TCP (BX310x-829).....	18
7. TROUBLESHOOTING	21
8. CERTIFICATION DESCRIPTION	22
9. RESTRICTIONS AND ADDITIONAL INFORMATION	23



List of Tables

Table 1.	New Features/Enhancements	6
Table 2.	Abbreviations and Definitions.....	7
Table 3.	Related Documentation	8
Table 4.	Hardware Compatibility	9
Table 5.	Software Compatibility.....	9
Table 6.	Firmware Release Information	10
Table 7.	Software Tools Versions	10
Table 8.	Validated Corrections/Improvements	11
Table 9.	Certifications.....	22
Table 10.	Restrictions and Additional Information.....	23



1. Introduction

1.1. Document Scope

This document describes AirPrime BX310x firmware release R2.4.0.201810031030.BX310x.1

1.2. Document Audience

This release note may be distributed to all direct and indirect customers.

1.3. New Features/Enhancements

Table 1. New Features/Enhancements

Feature	Description
Power Saving	Power saving optimization
BT Classic	Legacy pairing support



2. Abbreviations and Definitions

Table 2. Abbreviations and Definitions

Abbreviation/Acronym	Definitions
A2DP	Advanced Audio Distribution Profile
AVRCP	Audio/Video Remote Control Profile
BA	Broadcast Audio
BLE	Bluetooth® Low Energy
BR	Basic Rate
BT	Bluetooth®
EDR	Enhanced Data Rate
GPIO	General Purpose Input / Output
HFP	Hands-Free Profile
HID	Human Interface Device Profile
I/O	Input / Output
IAP	iPod Accessory Protocol
LED	Light-emitting diode
MAP	Message Access Profile
MFI	“Made for iPhone/iPod/iPad” license
PBAP	Phone Book Access Profile
SPP	Serial Port Profile
TWS	True Wireless Stereo
UART	Universal Asynchronous Receiver Transmitter



3. Related Documentation

Table 3. Related Documentation

Ref. #	Doc. #	Rev.	Document title
[1]	41111444	6.0	AirPrime BX310X Product Specification
[2]	41111445	1.0	AirPrime BX310X AT Command Guide
[3]	41112399	2.0	Customer Release Note for Firmware R2.0.0.201803141120.BX310x.1
[4]	41112440	1.0	Customer Release Note for Firmware R2.1.0.20180502101500.BX310x.1
[5]	41112615	2.0	Customer Release Note for Firmware R2.2.0.201807121327.BX310x.1
[6]	41112727	2.0	Customer Release Note for Firmware R2.3.0.201809061400.BX310x.1



4. Compatibility

Table 4. Hardware Compatibility

AirPrime Compatibility List	
BX3100	: PV1 and onwards
BX3105	: PV1 and onwards

Table 5. Software Compatibility

Component	Version
FW	R1.3.1 and greater. Note: HW built with R1.3.1 requires UART Updater tool to update to P1.x and beyond. FOTA does not work on R1.3.1 to update to P1.x and later versions.



5. Software Release Description

5.1. Release Identification

Table 6. Firmware Release Information

Component	Version
Maturity / Maturity ID	BX310x Release Candidate 2.4.0
Date of generation	October 3, 2018
IMEI SV	NA
Baseline version	R2.4.0.201810031030.BX310x.1
Firmware images - file and identification information	R2.4.0.201810031030.BX310x.1

5.2. Software Tools Versions

Table 7. Software Tools Versions

S/W Tools Name	Version	Resource file
BX310x Firmware Upgrade Tool	2	BX310x FW Updater v2.zip



6. Software Changes Description

6.1. Validated Corrections/Improvements

Table 8. Validated Corrections/Improvements

ID	Description	Impacted Domain/Sub-Domain	Fixed in
BX310x-926	Change the CPU clock frequency to 80MHz.	Common SW Features	R2.4.0
BX310x-922	+SRBLEINDICATE command should give an error if data length is longer than MTU-3.	Bluetooth Low Energy	R2.4.0
BX310x-917	+SRBLENOTIFY and +SRBLERESP commands should give an error if the data length is longer than MTU-3.	Bluetooth Low Energy	R2.4.0
BX310x-915	Power Saving: Runtime disabling of Wi-Fi power saving if Bluetooth is enabled.	Common SW Features	R2.4.0
BX310x-914	Power Saving: Disable unused GPIO pins at initialization.	Common SW Features	R2.4.0
BX310x-913	Power Saving: Disable power domains on light sleep and deep sleep	Common SW Features	R2.4.0
BX310x-899	+SRREMCTRL write command should give an error for an out of range <session_id> parameter	Bluetooth Low Energy	R2.4.0
BX310x-896	+KMQTTCFG read command return values corrected.	Network	R2.4.0
BX310x-890	Format of +srbtstate read command response corrected.	BT Classic	R2.4.0
BX310x-886	When testing Deep Sleep the module simply resets after the command "AT+SRPSMODE=1"	Common SW Features	R2.4.0
BX310x-872	Execute commands followed by single extra character should return an error.	Common SW Features	R2.4.0
BX310x-871	Should be able to omit 0 on ATIO command	Common SW Features	R2.4.0
BX310x-860	+SRBTNAME write command with extra parameter should give "+CME ERROR: 915".	Bluetooth Low Energy	R2.4.0
BX310x-846	KI2CREAD write command should return an error if <length_read_bytes> is not greater than 0.	Common SW Features	R2.4.0
BX310x-831	Return an error for Wi-Fi AT commands if Wi-Fi is not initialized.	Wi-Fi	R2.4.0
BX310x-823	+SRBTSYSTEM command should not return an error if setting it to the same state it is currently in.	BT Classic	R2.4.0
BX310x-767	Allocate more memory to internal web server	Network	R2.4.0
BX310x-546	AT command missing the option for pin key for Bluetooth classic mode	BT Classic	R2.4.0
BX310x-538	Wifi & Bluetooth Classic concurrency improvement	BT Classic	R2.4.0
BX310x-345	The BLE connection will automatically dis-connect after a timeout period	Bluetooth Low Energy	R2.4.0

6.2. New AT Commands – Release R2.4.0

6.2.1. Legacy Pairing PIN Configuration (BX310x-546)

AT+SRBTCPCINCFG	
Command	Write command: AT+SRBTCPCINCFG=<type=0> AT+SRBTCPCINCFG=<type=1>,<pin_code> Configure the legacy pairing pin feature
Response	OK <hr/> ERROR
Parameters	<ul style="list-style-type: none"> • type <ul style="list-style-type: none"> ○ 0: Variable pin <ul style="list-style-type: none"> ▪ +SRBTCPCIN notification will be displayed when a remote device requests a pairing. The host can answer the request with AT+SRBTCPCIN command. ○ 1: Fixed pin <ul style="list-style-type: none"> ▪ BX310x will automatically accept pairing requests from remote devices and answer them with the specified pin. • pin_code <ul style="list-style-type: none"> ○ Pin code value. Between 1 and 16 digits.
Notes	
Examples	AT+SRBTCPCINCFG=1,1234 OK
Introduced in FW Revision	2.4
Modified in FW Revision	

AT+SRBTCPCIN	
Command	Write command: AT+SRBTCPCIN=<bluetooth_address>,<accept=0>

	<p>AT+SRBTCPIN=<bluetooth_address>,<accept=1>,<pin_code></p> <p>Reply to a legacy pairing request</p>
Response	<p>OK</p> <hr/> <p>ERROR</p>
Parameters	<ul style="list-style-type: none"> • bluetooth_address <ul style="list-style-type: none"> ○ Bluetooth address of the remote device • accept <ul style="list-style-type: none"> ○ 0: Deny the request ○ 1: Accept the request • pin_code <ul style="list-style-type: none"> ○ Pin code value. Between 1 and 16 digits.
Notes	
Examples	<p>AT+SRBTCPIN="20:fa:bb:00:01:79",1,1234</p> <p>OK</p>
Introduced in FW Revision	2.4
Modified in FW Revision	

+SRBTCPIN	
Notification	<p>+SRBTCPIN: <bluetooth_address></p> <p>Legacy pairing request notification</p>
Parameters	<ul style="list-style-type: none"> • bluetooth_address <ul style="list-style-type: none"> ○ Bluetooth address of the remote device
Notes	This request should be replied to with AT+SRBTCPIN
Examples	+SRBTCPIN: "20:fa:bb:00:01:79"
Introduced in FW Revision	2.4
Modified in FW Revision	

6.3. Modified AT Commands – Release R2.4.0

6.3.1. Closing_type = 0 unsupported (BX310x-905)

AT+KTCPCLOSE	Close the specified TCP session.
Commands	Write command: AT+KTCPCLOSE=<tcp_session_id>,<closing_type> Purpose: Close the specified TCP session.
Response	OK ----- ERROR ----- +CME_ERROR: <value> ----- +KTCP_NOTIF: <tcp_session_id>,<tcp_notif>
Parameters	<ul style="list-style-type: none"> • <tcp_session_id> (TCP session ID) <ul style="list-style-type: none"> ○ [1-64]: Unique integer value assigned to the session by AT+KTCPCFG • <closing_type> (Method used to close TCP session) <ul style="list-style-type: none"> ○ 0: Fast closing of the TCP connection (Not available if the session mode is 3=Secure TCP client) ○ 1: Complete close (Not available if the session mode is 1=Server) ○ If mode=3 Secure client (TLS) <ul style="list-style-type: none"> ▪ R2.3.0: Only closing_type=1 is accepted ▪ R2.4.0: Only closing_type=0 is accepted • <tcp_notif> (Connection failure cause) <ul style="list-style-type: none"> ○ See AT+KTCPCNX_command
Note	
Example	AT+KTCPCLOSE=2,1 OK
Introduced in FW Revision	-
Modified in FW Revision	2.1, 2.3, 2.4

6.4. New AT Commands – Release R2.3.0

6.4.1. BT Power Saving (BX310x-638)

AT+SRBTPS		
Command	Write command: AT+SRBTPS=<state> Function to write enable BT Power Saving.	Read command: AT+SRBTPS? Function to read the state of the BT Power Saving.
Response	Write command: OK or ERROR	Read command: "+SRBTPS: <state>" OK or ERROR
Parameters	<ul style="list-style-type: none"> • state <ul style="list-style-type: none"> ○ 0: OFF BT Power Saving ○ 1: ON BT Power Saving 	
Notes	Enable/Disable bluetooth to enter modem sleep	
Example	AT+SRBTPS=1 OK	AT+SRBTPS? +SRBTPS: 1 OK
Introduced in FW Revision	2.3	2.3
Modified in FW Revision	-	-

6.4.2. BT Transmit Power Setting (BX310x-656)

AT+SRBTCTXPWR		
Command	Write command: AT+SRBTCTXPWR=<min_tx_power>, <max_tx_power>	Read command: AT+SRBTCTXPWR?
Response	OK	+SRBTCTXPWR=<min_tx_power>, <max_tx_power>

Parameters	Error	
	<ul style="list-style-type: none"> min_tx_power <ul style="list-style-type: none"> Minimum transmit power: 0-6 see values below max_tx_power <ul style="list-style-type: none"> Minimum transmit power: 0-6 see values below <p>Values</p> <ul style="list-style-type: none"> 0: -12dBm 1: -9dBm 2: -6dBm 3: -3dBm 4: 0dBm (Default min_tx_power) 5: +3dBm (Default max_tx_power) 6: +6dBm 	
Notes		
Examples	AT+SRBTCTXPWR=4,5 OK	AT+SRBTCTXPWR? +SRBTCTXPWR: 4,5 OK
Introduced in FW Revision	2.3	2.3
Modified in FW Revision		

6.4.3. BLE Transmit Power Setting (BX310x-657)

AT+SRBLETXPWRCFG		
Commands	Write command: AT+SRBTCTXPWRCFG=<type>,<tx_power>	Read command: AT+SRBTCTXPWRCFG?
Response	OK ----- ERROR	+SRBTCTXPWRCFG: 0,<tx_power> +SRBTCTXPWRCFG: 1,<tx_power> +SRBTCTXPWRCFG: 2,<tx_power> OK
<ul style="list-style-type: none"> Parameters 	<ul style="list-style-type: none"> type <ul style="list-style-type: none"> 0 - Default 1 - Advertise 2 - Scan 	

	<ul style="list-style-type: none"> • tx_power <ul style="list-style-type: none"> ○ 0: -12dBm ○ 1: -9dBm ○ 2: -6dBm ○ 3: -3dBm ○ 4: 0dBm ○ 5: +3dBm ○ 6: +6dBm 	
Notes		
Examples	<pre>AT+SRBLETXPWRCFG=1,4 OK</pre>	<pre>AT+SRBTCTXPWRCFG? +SRBTCTXPWRCFG: 0,5 +SRBTCTXPWRCFG: 1,5 +SRBTCTXPWRCFG: 2,5 OK</pre>
Introduced in FW revision	2.3	2.3
Modified in FW revision		

AT+SRBLETXPWR		
Commands	<p>Write command:</p> <pre>AT+SRBLETXPWR=<session_id>,<tx_power></pre>	<p>Read command:</p> <pre>AT+SRBLETXPWR?</pre>
Response	<pre>OK</pre> <hr/> <pre>ERROR</pre>	<pre>+SRBLETXPWR=<session_id>,<is_connected>,<tx_power></pre> <pre>+SRBLETXPWR=<session_id>,<is_connected>,<tx_power></pre> <p>...</p> <pre>OK</pre>
Parameters	<ul style="list-style-type: none"> • <session id> <ul style="list-style-type: none"> ○ BLE session identifier in Decimal Format. • <is connected>: <ul style="list-style-type: none"> ○ 0: Not connected ○ 1: connected • tx_power <ul style="list-style-type: none"> ○ 0: -12dBm ○ 1: -9dBm ○ 2: -6dBm ○ 3: -3dBm ○ 4: 0dBm ○ 5: +3dBm 	

AT+SRBLETXPWR		
	○ 6: +6dBm	
Notes		
Example	<pre>AT+BLETXPWR=1,4 OK</pre>	<pre>AT+SRBLETXPWR? OK AT+SRBLECFG="00:11:22:aa:bb:cc" +SRBLECFG: 1,0,"00:11:22:aa:bb:cc",23 OK AT+SRBLETXPWR=1,5 OK AT+SRBLETXPWR? +SRBLETXPWR: 1,0,5 OK</pre>
Introduce in FW Revision	2.3	2.3
Modified in FW revision		

6.5. Modified AT Commands – Release 2.3.0

6.5.1. Implement TLS for TCP (BX310x-829)

Secure client (TLS) option 3 added to AT+KTCPCFG command. AT+KTCPCLOSE modified for fast closing of the TCP connection is not available if the session mode is 3=Secure TCP client.

AT+KTCPCFG	Set up (configure) a TCP session, or display the current configuration of all sessions	
Commands	<p>Write command:</p> <pre>AT+KTCPCFG=[<cnx_cnf>],<mode>[,<tcp_remote_address>[,<tcp_port>[,<source_port>][,<data_mode>[,<URC_ENDTCP_enable>]]]]</pre> <p>Purpose: Set up (configure) a TCP session, or display the current configuration of all sessions.</p>	<p>Read command:</p> <pre>AT+KTCPCFG?</pre> <p>Purpose: Display the current configuration of all TCP connections.</p>
Response	<pre>+KTCPCFG: <tcp_session_id> OK</pre>	<pre>+KTCPCFG: <tcp_session_id>,<s</pre>

	<hr/> <p>ERROR</p> <hr/> <p>+CME_ERROR: <value></p>	<p>tatus>,<cnx_cnf>,<mode></p> <p>[,<server_ID>,<tcp_remote_address>,<tcp_port>,<source_port>],</p> <p><data_mode>,<URC_ENDTCP_enable></p> <p>...</p> <p>OK</p>
<p>Parameters</p>	<ul style="list-style-type: none"> • <cnx_cnf>: Not used • <tcp_session_id> (TCP session ID) <ul style="list-style-type: none"> ○ [1-64]: Unique integer value assigned to a specific session • <mode> (BX310X module's TCP mode) <ul style="list-style-type: none"> ○ 0: Client ○ 1: Server ○ 2: Child (Generated by server sockets) ○ 3: Secure client (TLS) • <tcp_remote_address> (Remote TCP server's address) <ul style="list-style-type: none"> ○ Format depends on <mode>. ○ If <mode> is: <ul style="list-style-type: none"> ▪ 0, 2: FQDN or IPv4 address ▪ 1: Leave field blank (server configuration) • <tcp_port> (TCP port) <ul style="list-style-type: none"> ○ [0-65535] ○ Note: If <mode> is 0 (Client), this is the remote TCP server's port. • <status> (Connection state of the selected socket) <ul style="list-style-type: none"> ○ 0: Disconnected ○ 1: Connected • <server_ID> (Server session ID index) <ul style="list-style-type: none"> ○ Applies only for socket in <mode>=2 (Child) ○ Integer • <source_port> (Local TCP client port number) <ul style="list-style-type: none"> ○ for mode = 0 <ul style="list-style-type: none"> ▪ [0-65535] or blank. This feature is not supported and the value will be ignored. ○ for mode = 1 <ul style="list-style-type: none"> ▪ value should be left blank • <data_mode> (URC display?) <ul style="list-style-type: none"> ○ 0: (Not supported) Do not display <data> in URC ○ 1: (Default) Display <data> in URC ○ Note: For a child session, the <data_mode> will be the same as the server socket's setting. • <URC_ENDTCP_enable> (Display URC acknowledgement) <ul style="list-style-type: none"> ○ 0: (Default): Do not display URC "+KTCP_ACK" ○ 1: Display URC "+KTCP_ACK" ○ Not used 	
<p>Note</p>		

<p>Example</p>	<pre>// Configure a server AT+KTCPCFG=,1,,5005 +KTCPCFG: 1 OK // Configure a client AT+KTCPCFG=,0,192.168.100.183,5005 +KTCPCFG: 2 OK</pre>	<pre>AT+KTCPCFG? +KTCPCFG: 1,0,,1,"",5005,,1,0 +KTCPCFG: 2,0,,0,"192.168.100. 100",5005,,1,0</pre>
<p>Updated in FW Revision</p>	<p>2.2, 2.3</p>	



7. Troubleshooting

Please contact customer service for support and debugging information.

8. Certification Description

The following table summarizes the certifications passed for this release.

Table 9. Certifications

Product	Version	QDID
None	NA	



9. Restrictions and Additional Information

This section presents additional information or restrictions that must be considered. Issues are sorted by order of ID.

Table 10. Restrictions and Additional Information

ID	Description (What/When)	Impacted Domain/Sub-Domain
BX310x-251	AT+KTCPCLOSE does not close the connection	Wi-Fi
BX310x-837	Enable/Disabling BT adds duplicate AT commands in the command list displayed by AT+CLAC	Common SW Features
BX310x-847	Missing configuring of the main DNS server IP when DHCP is disabled	Network
BX310x-905	close_type=1 unsupported	Network
BX310x-924	Wi-Fi Power Saving and Bluetooth cannot be enabled simultaneously	Wi-Fi