



**Customer Release Note for
Firmware P1.0.0.201805311132**

AirPrime BX310x



SIERRA
WIRELESS

41112500
P1.0.0
May 31, 2018

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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.

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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
P1.0.0	May 31, 2018	Production Release 1.0.0



Contents

CONTENTS	4
LIST OF TABLES	5
1. INTRODUCTION	6
1.1. Document Scope	6
1.2. Document Audience	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. Improvements.....	11
7. TROUBLESHOOTING	12
8. CERTIFICATION DESCRIPTION.....	13
9. RESTRICTIONS AND ADDITIONAL INFORMATION	14



List of Tables

Table 1.	Abbreviations and Definitions.....	7
Table 2.	Related Documentation.....	8
Table 3.	Hardware Compatibility	9
Table 4.	Software Compatibility.....	9
Table 5.	Firmware Release Information	10
Table 6.	Software Tools Versions	10
Table 7.	Improvements.....	11
Table 8.	Certifications.....	13
Table 9.	Restrictions and Additional Information.....	14



1. Introduction

1.1. Document Scope

This document describes AirPrime BX3100 firmware release P1.0.0.201805311132.

1.2. Document Audience

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



2. Abbreviations and Definitions

Table 1. Abbreviations and Definitions

Abbreviation/Acronym	Definitions
AP	Access Point
BT	Bluetooth®
BLE	Bluetooth® Low Energy
BR	Basic Rate
EDR	Enhanced Data Rate
FOTA	Firmware Over The Air
GAP	General Access Profile
GATT	Generic Attribute Profile
GPIO	Generic Programmable Input / Output
HTTP	HyperText Transfer Protocol
I/O	Input / Output
L2CAP	Logical Link Control and Adaptation Protocol
LWM2M	Light Weight Machine to Machine
LMP	Link Management Protocol
MQTT	Message Queue Telemetry Transport
RF	Radio Frequency
RFCOMM	Radio Frequency Communications
SDP	Service Discovery Protocol
SMP	Security Manage Protocol
SPP	Serial Port Profile
STA	Station
TCP	Transmission Control Protocol
UART	Universal Asynchronous Receiver Transmitter
UDP	User Datagram Protocol
Wi-Fi	Wireless Fidelity



3. Related Documentation

Table 2. Related Documentation

Ref. #	Doc. #	Rev.	Document title
[1]	41111444	5.0	AirPrime BX3100-5 Product Technical Specification
[2]	41111445	4.0	AirPrime BX3100-5 AT Command Reference Guide



4. Compatibility

Table 3. Hardware Compatibility

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

Table 4. Software Compatibility

Component	Version
N/A	N/A



5. Software Release Description

5.1. Release Identification

Table 5. Firmware Release Information

Component	Version
Maturity / Maturity ID	BX310x Production Release 1.0.0
Date of generation	May 31, 2018
IMEI SV	N/A
Baseline version	P1.0.0.201805311132.BX310x.1
Firmware images – file and identification information	P1.0.0.201805311132.BX310x.1

5.2. Software Tools Versions

Table 6. Software Tools Versions

S/W Tools Name	Version	Resource file



6. Software Changes Description

6.1. Improvements

Table 7. Improvements

ID	Description	Impacted Domain/Sub-Domain	Fixed in



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 8. Certifications

Product	Version
BQB	BT5.0 declaration and QDID to follow
AirVantage Ready	



9. Restrictions and Additional Information

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

Table 9. Restrictions and Additional Information

ID	Description (What/When)	Impacted Domain/ Sub-Domain
NA	BT Classic is not fully supported in this release	BT Classic
BX310x-251	AT+KTCPCLOSE does not close the connection	Wi-Fi
BX310x-345	The BLE connection will automatically dis-connect after a timeout period. If two BX modules connected via BLE, after the connection established successfully, if both of them stays in the IDLE state, after a timeout period the connection will be closed. A timeout event will be sent back.	BLE
BX310x-428	+KHTTSCFG command accepts invalid https server.	Wi-Fi
BX310x-431	HTTPHEADER cannot be set correctly.	Wi-Fi
BX310x-433	Data mode is exited after sending '++'.	Wi-Fi
BX310x-434	The +KTCPCFG Command accepts invalid <URC_ENDTCP_enable>.	Wi-Fi
BX310x-456	Can configure a HTTP connection without any parameter input.	Wi-Fi
BX310x-461	+KTCP_SRVREQ: returns incorrectly when setting source port for TCP server	Wi-Fi
BX310x-463	HTTPS command only work with HTTPS server that support <cipher_suite> 6,7.	Wi-Fi
BX310x-466	+KMQTTCFG command accepts invalid MQTT broker server	Wi-Fi
BX310x-479	Default value of parameter in MQTT configuration is incorrect	Wi-Fi
BX310x-480	Module is stuck after run command +KTCPCLOSE in server.	Wi-Fi
BX310x-481	Default value of parameter in MQTT configuration is incorrect.	Wi-Fi
BX310x-484	Module lost connection to MQTT broker after <keepAliveInterval> time without action.	W-Fi
BX310x-485	Cannot Subscribe after Unsubscribe in the same MQTT session	Wi-Fi
BX310x-486	Cannot publish zero byte payload to Delete MQTT Retained Message.	Wi-Fi
BX310x-488	BX310x module cannot handle two MQTT connections properly.	Wi-Fi
BX310x-532	Incorrect WDSI values when session fails through no bearer.	Wi-Fi
BX310x-558	AT&F does not restore +IPR and &K settings to factory default.	
BX310x-559	When UART CTS line goes high, it gets "stuck" high until some characters are sent.	