



Customer Release Note

AirPrime BC127 Melody 7.2



SIERRA
WIRELESS

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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.

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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
1.00	July 03, 2018	Creation, Melody 7.2 RC1 release
1.01	August 03, 2018	Update for Melody 7.2 RC2 release
1.02	August 16, 2018	Update for Melody 7.2 RC3 release
1.03	August 20, 2018	Melody 7.2 official release



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1. Introduction

1.1. Document Scope

This document describes AirPrime BC127 firmware release Melody 7.2.

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
BA / BLE	Broadcast Audio and BLE concurrency
BLE	Include scan response data in BLE scan results
BLE	Add end handle to GATT Primary Service Discovery results
BLE	Add characteristic properties to GATT Characteristic Discovery results
BLE	Add address type to the raw scan results (SCAN_RAW response)



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	Generic Programmable 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]	41112426	3	Melody Audio 7.x User Guide



4. Compatibility

Table 4. Hardware Compatibility

AirPrime Compatibility List
BC127, BC127-EXT, BC127-HD, BC127-EXT-HD

Table 5. Software Compatibility

Component	Version
N/A	N/A



5. Software Release Description

5.1. Release Identification

Table 6. Firmware Release Information

Component	Version
Maturity / Maturity ID	Melody 7.2
Date of generation	August 20, 2018
IMEI SV	N/A
Baseline version	Melody 7
Firmware images - file and identification information	1534785311_Melody_7_2_STANDARD.dfu 1534786806_Melody_7_2_MFI.dfu 1534788251_Melody_7_2_BA.dfu 1534790275_Melody_7_2_HD.dfu

5.2. Software Tools Versions

Table 7. Software Tools Versions

S/W Tools Name	Version	Resource file
BC127 aptX/cVc Demo Updater	V1.5.0	
BC127 Melody BLE db gen	Rev c	
BC127 USB Demo App	1.2	
Melody DFU Tool	V5.0.0	melody-updater-v5.0.0.0.zip
Melody Flash Tool	V2.1	MelodyFlash v2.1.zip



6. Software Changes Description

6.1. Validated Corrections/Improvements

Table 8. Validated Corrections/Improvements

ID	Description	Impacted Domain/Sub-Domain	Fixed in
BC127-149	HFP link issue after auto-connection	HFP	7.2 RC1
BC127-158	SPP_UUID config overwrite SSP_CAPS config	General	7.2 RC1
BC127-160	Setting empty advertising data resets the module	BLE	7.2 RC1
BC127-161	Setting the HID descriptor, when HID device is disabled, resets the module	HID	7.2 RC1
BC127-163	Inquiry and scan results show the RSSI value in dBm, not dB	Bluetooth Classic / BLE	7.2 RC1
BC127-164	BLE security fails when already bonded	BLE	7.2 RC1
BC127-166	BLE auto-advertising does not work	BLE	7.2 RC1
BC127-174	Fix BALANCE configuration	Audio	7.2 RC2
BC127-177	Add address type to raw scan results	BLE	7.2 RC2
BC127-178	Add end handle to GATT Primary Service Discovery results	BLE	7.2 RC2
BC127-179	Add characteristic properties to GATT Characteristic Discovery results	BLE	7.2 RC2
BC127-183	Fix reset when setting the advertising data	BLE	7.2 RC2
BC127-184	Fix Broadcast Audio not started automatically after association (with auto-broadcast enabled)	BA	7.2 RC2
BC127-189	Fix UNPAIR command with a BLE static address	BLE	7.2 RC3

6.2. Interface Changes

6.2.1. Commands

Table 9. Commands

Name	Comment	Changed in
BLE_SERV	Add end handle to GATT Primary Service Discovery results.	7.2 RC2
BLE_CHAR	Add characteristic properties to GATT Characteristic Discovery results.	7.2 RC2
INQUIRY	RSSI value unit corrected (dBm).	7.2 RC1
SCAN	RSSI value unit corrected (dBm).	7.2 RC1
SCAN_RAW	RSSI value unit corrected (dBm). Add address type to raw scan results.	7.2 RC1 7.2 RC2
STATUS	Update Broadcast Audio state.	7.2 RC1

6.2.2. Configuration

Table 10. Configuration

Name	Comment	Changed in
BA_CONFIG	Broadcast Audio configuration. Product and version ID removed.	7.2 RC1

6.2.3. Notifications

Table 11. Notifications

Name	Comment	Changed in
ASSOCIATION	Broadcaster Product and version ID replaced by Bluetooth address.	7.2 RC1



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 12. Certifications

Product	Version	QDID
BT SiG Qualification	Version 5.0	112978



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 13. Restrictions and Additional Information

ID	Description (What/When)	Impacted Domain/Sub-Domain
None	N/A	N/A