



# Customer Release Note

## AirPrime BC127 Melody 7.3



**SIERRA**  
WIRELESS

41112696  
1.02  
December 13, 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.

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

## Document History

Version	Date	Updates
1.00	October 04, 2018	Creation, Melody 7.3 RC1 release
1.01	November 29, 2018	Melody 7.3 RC2 release
1.02	December 13, 2018	Melody 7.3 release

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# 1. Introduction

## 1.1. Document Scope

This document describes AirPrime BC127 firmware release Melody 7.3.

## 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
General	Special characters represented by escaped string (i.e. \02\05...).
Bluetooth	PIN code extended to 16 characters.
BLE / SPP	Improve remote control over BLE/SPP.
BLE	Add GATT Characteristic Descriptor Discovery command.

## 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 7.3
Date of generation	December 12, 2018
IMEI SV	N/A
Baseline version	Melody 7
Firmware images - file and identification information	1544637564_Melody_7_3_STANDARD 1544695613_Melody_7_3_MFI 1544702265_Melody_7_3_BA 1544717993_Melody_7_3_HD

### 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
BC127-126	Improve remote commands over BLE/SPP.	BLE/SPP	7.3 RC1
BC127-159	Fix reset with CONFIG command over SPP.	SPP	7.3 RC1
BC127-182	Add Characteristic Descriptor Discovery support	BLE	7.3
BC127-192	Reduce A2DP connect stream delay.	A2DP	7.3 RC1
BC127-195	Fix SET REMOTE_ADDR configuration.	General	7.3 RC1
BC127-201	Fix resampling issue with PCM interface.	HFP	7.3 RC2
BC127-211	Add start/stop BLE scanning without timeout.	BLE	7.3 RC2
BC127-213	Fix input gain range in AUDIO_ANALOG configuration.	Config	7.3 RC2
BC127-217	Fix battery charging does not stop when termination voltage is reached.	Charger	7.3 RC2
BC127-218	Add ability to disable battery charging without reboot.	Charger	7.3 RC2
BC127-219	Extend PIN code to 16 digits	Bluetooth	7.3

### 6.2. Interface Changes

#### 6.2.1. Commands

Table 9. Commands

Name	Comment	Changed in
BATTERY_STATUS	Command response reformatted in one line: BATTERY_STATUS <charger_status> <vbat>	7.3 RC2
BC_SMART_COMMAND	Removed. Replaced by REM_CMD command.	7.3 RC1
BLE_GET_DSCR	New. GATT characteristic descriptor discovery.	7.3
REM_CMD	New. Send remote command.	7.3 RC1
REM_CTRL	New. Get/set remote controller.	7.3 RC1
SCAN	SCAN ON/OFF supported to start scanning without timeout, or stop scanning.	7.3 RC2

## 6.2.2. Configuration

Table 10. Configuration

Name	Comment	Changed in
BATT_CONFIG	Reboot not necessary for <enable charge> parameter.	7.3 RC2
BC_SMART_CONFIG	Updated. <enable command> parameter removed (replaced by REM_CTRL command).	7.3 RC1
PIN	Extended to 16 digits max.	7.3

## 6.2.3. Notifications

Table 11. Notifications

Name	Comment	Changed in
BC_SMART_CMD	Removed. Replaced by REM_CMD notification.	7.3 RC1
BC_SMART_CMD_RESP	Removed. Replaced by REM_RSP notification.	7.3 RC1
CHARGING IN PROGRESS	Renamed CHARGE_IN_PROGRESS.	7.3 RC2
CHARGING COMPLETE	Renamed CHARGE_COMPLETE.	7.3 RC2
CHARGER DISCONNECTED	Renamed CHARGER_DISCONNECTED.	7.3 RC2
CHARGER_DISABLED	New notification.	7.3 RC2
HID_READ	Updated. Special characters represented by escaped string (i.e. \02\05...).	7.3 RC1
MAP_GET_MSG	Updated. Special characters represented by escaped string (i.e. \02\05...).	7.3 RC1
PB_PULL	Updated. Special characters represented by escaped string (i.e. \02\05...).	7.3 RC1
RECV	Updated. Special characters represented by escaped string (i.e. \02\05...).	7.3 RC1
REM_CMD	New. Remote command received.	7.3 RC1
REM_RSP	New. Remote command response received.	7.3 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