



AirPrime HL6528RDx

Firmware 2.5.1 Customer Release Note



SIERRA
WIRELESS®

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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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Document History

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1.0	August 01, 2018	Creation
2.0	December 17, 2018	Added section 10 Radio Equipment Directive (RED) Continuity



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1. Introduction

This document is the Firmware 2.5.1 customer release note of the AirPrime HL6528RDx. Firmware 2.5.1 is a maintenance release based on Firmware 2.4.3.

The HL6528RDx is comprised of the following variants:

- HL6528RD
- HL6528RD-G
- HL6528RD-2.8V
- HL6528RD-G2.8V



2. Abbreviations and Definitions

Table 1. Abbreviations and Definitions

Abbreviation/Acronym	Definitions
ADC	Analog Digital Converter
DV2.1	Development verification build #2.1
GPIO	General Purpose Input Output
GPS	Global Positioning System
GNSS	Global Navigation Satellite System
HTTPS	Hypertext Transfer Protocol Secure
NVM	Non-Volatile Memory
PCM	Pulse Code Modulation
PWM	Pulse Width Modulation
SBAS	Satellite Based Augmentation System
SIM	Subscriber Identity Module
SSL	Secure Socket Layer
SUPL	Secure User Plane Location
UART	Universal Asynchronous Receiver Transmitter
USB	Universal Serial Bus



3. Related Documentation

- [1] AirPrime HL6528RDx Product Technical Specification
Reference: 4117701
- [2] AirPrime HL6528RDx AT Commands Interface Guide
Reference: 4117743

4. Compatibility

This firmware is compatible with HL6528RDx DV2.1 or newer; and with Firmware 1.5.0 or newer.

Warning: *Firmware upgrade from earlier versions would result in the module being blocked.*



5. Software Release Description

5.1. Release Identification

Table 2. Firmware Release Information

Identification	RHL6528RD.2.5.1.11CV10F49_P1.201805031654.m6261a_1
Date of generation	2018/05/03
IMEI SV	09
Stack version	MAUI_11C_W14_18_SP_V10_F49

5.2. Software Tools Versions

Table 3. Software Tools

Software Tools Name	Version
USB driver	1.1032.1

5.3. Release Files and Download Processes

Table 4. Release Files

Download Option	File
All in one download executable	RHL6528RD.2.5.1.11CV10F49_P1.201805031654.m6261a_1.exe

>> 6. Software Changes

6.1. Validated Corrections and Improvements

Table 5. Changes in Firmware

ID	Description	Impacted Functionality/ Sub-Functionality
MT6261A-1269	The +CRMP command is added to the module to play melody during incoming call.	AT/AUDIO
MT6261A-1315	Dial-up on the module using PAP authentication with some specific SIM may fail.	AT/DATA
MT6261A-1331	AT+KURCCFG setting is not persistent to reset.	AT/DATA
MT6261A-1337	The module may not send long SMS with more than 160 IRA characters (80 bytes) with 8-bit GSM character set as encoding.	AT/SMS
MT6261A-1340	The module could occasionally restart after starting the secured TCP session with some web server.	AT/TCP

6.2. Interface Changes

Table 6. Interface Changes

Command	Comment
+CRMP	Supports playing melody during incoming call.
+COPN	The table containing the operator's names has been updated as per latest TS.25 list dated April 02, 2018.



7. Restrictions and Known Issues

Note: The AVMS FOTA package installation time from Firmware 2.4.3 (or previous releases) to firmware 2.5.1 may take up to 8 minutes (from +WDSI: 14 to +WDSI: 16 event indication).

The following table lists the important known issues for Firmware 2.5.1.

Table 7. Restrictions and Known Issues

Issue ID	Description	Impacted Functionality/ Sub-Functionality
MT6261A-1345	The module may restart within 1 minutes after HTTP POST has been done.	AT/HTTP
MT6261A-1343	The module may not connect to some HTTPS servers that expect server name indication with TLS extension	AT/HTTPS

8. Troubleshooting

Please contact Sierra Wireless customer service for support and debugging information.

9. Certification

The following table summarizes the certifications passed for this release.

Table 8. Certification Description

Embedded Module	GCF-CC	NAPRD.03
AirPrime HL6528RD	3.65.0	5.35
AirPrime HL6528RD-2.8V	3.65.0	5.35
AirPrime HL6528RD-G	3.65.0	5.35
AirPrime HL6528RD-G2.8V	3.65.0	5.35

>> 10. Radio Equipment Directive (RED) Continuity

The following table summarizes the Radio Equipment Directive (RED) compliance.

Table 9. Radio Equipment Directive (RED) Compliance

Embedded Module	Release	RED Impact
AirPrime HL6528RD	2.5.1	None
AirPrime HL6528RD-2.8V	2.5.1	None
AirPrime HL6528RD-G	2.5.1	None
AirPrime HL6528RD-G2.8V	2.5.1	None