



Customer Release Note

AirPrime HL6528RDx Firmware 2.3.10



SIERRA
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1. Introduction

1.1. Document Scope

This document is the Firmware 2.3.10 Customer Release Note of the AirPrime HL6528RDx embedded module.

The HL6528RDx is comprised of the following variants:

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

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 in Firmware 2.3.5

| Feature | Description |
|-----------------------|---------------------|
| DTMF tone duration | AT+VTD command |
| Flash file operation | AT+KFSFILE command |
| Play audio file | AT+KPLAYSOUND |
| Play AMR file | AT+KPLAYAMR command |
| Schedule module reset | AT+KRST command |

Table 2. New Features in Firmware 2.3.4

| Feature | Description |
|----------------------------------|---------------------|
| Set ringer sounder level | AT+CRSL command |
| Support Class 0 SMS storage | Class 0 SMS storage |
| Save or restore audio parameters | AT+KSRAP command |
| Add alarm feature | AT+CALA command |
| Delete alarm feature | AT+CALD command |
| Select disconnect cause | AT+KATH command |

Table 3. New Features in Firmware 2.3.2

| Feature | Description |
|------------------------------------|---|
| Secure email feature | All AT+KPOP... Commands All AT+KSMTP... Commands |
| Location update for mobile station | AT *PSLOCUP command |
| Set side tone gain | AT+KST command |

Table 4. New Features in Firmware 2.3.1

| Feature | Description |
|---------------------------------|-----------------|
| Jamming detection for GSM bands | AT+KJAM command |



2. Abbreviations and Definitions

Table 5. Abbreviations and Definitions

| Abbreviation/Acronym | Definitions |
|----------------------|---|
| ADC | Analog Digital Converter |
| 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

Table 6. Hardware Compatibility

| AirPrime Compatibility List |
|-----------------------------|
| HL6528RDx DV2.1 or newer |

Table 7. Software Compatibility

| Component | Version |
|-----------|----------------|
| 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 8. Firmware Release Information

| | |
|---------------------------|--|
| Identification | RHL6528RD.2.3.10.11CV10F48.201703231843.m6261a_1 |
| Date of generation | 2017/03/23 |
| IMEI SV | 06 |
| Stack version | MAUI_11C_W14_18_SP_V10_F48 |
| USB driver version | 1.1032.1 |

5.2. Software Tools Versions

Table 9. Software Tools

| Software Tools Name | Version |
|----------------------------|----------------|
| Flash tool | v5.1504.00 |

5.3. Release Files and Download Processes

Table 10. Release Files

| Download Option | File |
|--------------------------------|--|
| All in one download executable | RHL6528RD.2.3.10.11CV10F48.201703231843.m6261a_1.exe |



6. Software Changes Description

6.1. Validated Corrections and Improvements

Table 11. Changes in Firmware 2.3.10

| ID | Description |
|--------------|--|
| MT6261A-1224 | [HL6528RD] Release build for RHL6528RD.2.3.10.11CV10F48 |
| MT6261A-1222 | [HL6528RD] Allow CMUX N2 parameter range |
| MT6261A-1221 | [HL6528RD] incorrect IMEISV if firmware upgraded from 2.1.4.x branch |
| MT6261A-1217 | [HL6528RD][GCF]incorrect published list name spelling |
| MT6261A-1214 | [HL6528RD][GCF]MO SMS - Default 7-bit alphabet is not sent |
| MT6261A-1212 | [HL6528RD][REG][KTCPCNX] Module resets when starting the TCP connection session during the stress test |
| MT6261A-1209 | [HL6528RD][KGPIOCFG][REG] With GPIO4<dir> and <pull mode> values aren't saved after reset the module |
| MT6261A-1201 | [HL6528RD] no OK is returned in the response to AT*PSHPLMN? |

Table 12. Changes in Firmware 2.3.9

| ID | Description |
|--------------|--|
| MT6261A-1196 | [HL6528RD] SMS sent with 8Bit encoding/DSC is not sent correctly. |
| MT6261A-1195 | [HL6528RD] Update Flash Download Tool to support Fidelix memory |
| MT6261A-1191 | [HL6528RD][HTTPS][HTTP][REG] Extra \r\n is returned when perform HTTP,HTTPS Get, Headers |
| MT6261A-1193 | [HL6528RD][FTP] Extra <CR><LF> in the response after CONNECT |
| MT6261A-1204 | [HL6528RD][STK] Send Terminal Response for some STK commands in auto mode |
| MT6261A-1117 | [HL6528RD] AT+WESHDOWN is not supported |

Table 13. Changes in Firmware 2.3.8

| ID | Description |
|--------------|---|
| MT6261A-1170 | [HL6528RD] Integrate patch_1701110_V10_F47_P2_VDF_SIM |
| MT6261A-1166 | [HL6528RD] Integrate patch161222_V10_F47_P1_jam_enhance |
| MT6261A-1187 | [HL6528RD] Release build for RHL6528RD.2.3.8.11CV10F48 |
| MT6261A-1185 | [HL6528RD] Correct the timing data for using Fidelix memory (FM25M64C) |
| MT6261A-1184 | [HL6528RD] Integrate patch1702030_V10_F48_VDF_SIM_2 |
| MT6261A-1162 | [HL6528RD][MECS][KPLAYAMR] KPLAYAMR stopped when hang up call |
| MT6261A-1081 | [HL6528RD][POP3][KPOPREAD] Missing <CR><LF> in the response |
| MT6261A-1060 | [HL6528RD][Protocom][+KSMTPSUBJECT] Read command returned is not as expected. |
| MT6261A-1181 | [HL6528RD] Update GSMA TS.25 database to 23-January-2017 |

Table 14. Changes in Firmware 2.3.7

| ID | Description |
|--------------|---|
| MT6261A-1160 | [HL6528RD] Release build for RHL6528RD.2.3.7.11CV10F47 |
| MT6261A-1159 | [HL6528RD] Integrate patch1611300_V10_F47_lcp |
| MT6261A-1155 | [HL6528RD][+KSMTDPUL] Response "+KSMTDPUL:..." should be returned for test command. |
| MT6261A-1094 | [HL6528RD][REG][CCWA] Module cannot deactivate call waiting service |
| MT6261A-1072 | [HL6528RD][Email][+KSMTDPDEL] Wrong response of +KSMTDPDEL command |
| MT6261A-1064 | [HL6528RD][SMTP][+KSMTDPUL] Error should be returned for AT+KSMTDPUL? |
| MT6261A-1059 | [HL6528RD][Email][KSMTPTO] OK is returned instead of +CME ERROR: 910 when write +KSMTPTO command without SMTP Connection is created |
| MT6261A-1057 | [HL6528RD][Email][KSMTPTO] Wrong error code with invalid syntax of +KSMTPTO command |
| MT6261A-1145 | [HL6528RD][MECS][PLAYAMR] KPLAYAMR stopped when received SMS |
| MT6261A-1128 | [HL6528RD][KPLAYAMR] Wrong response of KPLAYAMR command |
| MT6261A-1142 | [HL6528RD][KPLAYAMR] Module cannot play AMR File |
| MT6261A-1134 | [HL6528RD][MECS][KPLAYAMR] Module resets after playing an AMR file while incoming a voice call |
| MT6261A-1137 | [HL6528RD][KPLAYSOUND] Module cannot stop the play audio file |
| MT6261A-1132 | [HL6528RD][+KFSFILE] NO CARRIER should be returned when write a file, DTR2 drop |
| MT6261A-1131 | [HL6528RD][+KFSFILE] "OK" does not return after sending +++ to abort read operation |
| MT6261A-1139 | [HL6528RD][KPLAYSOUND] ERROR code is returned instead of OK when module stop audio without play audio file |
| MT6261A-1138 | [HL6528RD][KPLAYSOUND] Module supports test command +KPLAYSOUND |

Table 15. Changes in Firmware 2.3.6

| ID | Description |
|--------------|---|
| MT6261A-653 | [HL6528RD][GNSS][GPSNMEA] Wrong response of the command GPSNMEA |
| MT6261A-636 | [HL6528RD][Location][+GPSCONF] the wrong response when check syntax for +GPSCONF command |
| MT6261A-1108 | [HL6528RD][LS][+GPS CORE] ERROR should return for "Write command" is wrong |
| MT6261A-1058 | [HL6528RD][Protocom][+KSMTPSUBJECT] Write Command is not supported. |
| MT6261A-959 | [HL6528RD]CPOF][*PSCPOF][USB] Module can not power off on USB port by CPOF and *PSCPOF command |
| MT6261A-1127 | [HL6528RD][Email][KSMTTPARAM] Wrong response of the read command KSMTTPARAM with no configuration |
| MT6261A-1144 | [HL6528RD] Support the use of Fidelix memory (FM25M64C) |
| MT6261A-1147 | [HL6528RD] Release build for RHL6528RD.2.3.6.11CV10F46_P7 |
| MT6261A-1029 | [HL6528RD][GPSSUPLCFG] Cannot start SUPL connection with some configurations |

Table 16. Changes in Firmware 2.3.5

| ID | Description |
|-------------|---|
| MT6261A-661 | [HL6528RD][GNSS][GPSSLEEP] Wrong error code of the command GPSSLEEP |
| MT6261A-662 | [HL6528RD][GNSS][KIICADDR] Wrong error code of the command KIICADDR |

| ID | Description |
|--------------|---|
| MT6261A-640 | [HL6528RD][+GPSSTART] +CME ERROR: 3 should be returned when check a wrong syntax |
| MT6261A-646 | [HL6528RD][LS][GPSAUTOINIT] Error response does not expect |
| MT6261A-638 | [HL6528RD][GNSS][GPSTTFF] The +CME ERROR: 4 is returned when checking Error Syntax |
| MT6261A-600 | [HL6528RD][PHNBK][CPBW] Wrong response of CPBW command |
| MT6261A-1109 | [HL6528RD] Integrate patch1610140_V10_F46_P6_USB_wake |
| MT6261A-1124 | [HL6528RD] Release build for BHL6528RD.2.3.5.11CV10F46_P7 |
| MT6261A-1106 | [HL6528RD][CCED] AT+CCED=0,1 response not available right after +CREG: 1 |
| MT6261A-1107 | [HL6528RD][+KSRAP] The +KSRAP command shouldn't be supported without SIM card |
| MT6261A-1120 | [HL6528RD] Add the support of +KSIOCFG mode 3 |
| MT6261A-1121 | [HL6528RD] Add mode 5 to +KPLAYAMR command |
| MT6261A-1113 | [HL6528RD][+CALA] Can set alarm on the slot that has been occupied |
| MT6261A-1110 | [HL6528RD][KCELL] AT+KCELL=0 response not available right after +CREG: 1 |
| MT6261A-1119 | [HL6528RD] Integrate patch1610230_V10_F46_P7_SIM_pin2_FD |
| MT6261A-1123 | [HL6528RD] Failure to play a sound file |
| MT6261A-1103 | [HL6528RD][GNSS] Sending AT command causes crash occasionally while NMEA frame is output |
| MT6261A-1050 | [HL6528RD][Email][SMTP] The format response of +KSMTTPPARAM command is incorrect |
| MT6261A-1053 | [HL6528RD][Email][+KSMTPCNX] Wrong response with test command +KSMTPCNX |
| MT6261A-1098 | [HL6528RD][KCELLSCAN] Unsolicited Notification +KCELLSCAN incorrect when module is in no network service. |
| MT6261A-1051 | [HL6528RD][Email][+KSMTTPPARAM] Extra header <CR><LF> when read +KSMTTPPARAM command |
| MT6261A-1052 | [HL6528RD][Email][+KSMTTPPARAM] Wrong error code of +KSMTTPPARAM command |
| MT6261A-1086 | [REG][HL6528RD][KFTPCLOSE] +KCNX_IND: 1,3 is not returned when close current FTP operation |
| MT6261A-1075 | [HL6528RD][POP3][KPOPLIST] Missing <CR><LF> in the response |
| MT6261A-1071 | [HL6528RD][Email][+KSMTPCLEAR] Wrong response of +KSMTPCLEAR command |
| MT6261A-1091 | [REG][HL6528RD][TCP][+KCNXTIMER] Wrong behavior of idle timer |
| MT6261A-1019 | [HL6528RD] Increment IMEI_SV to 06 |
| MT6261A-998 | [HL6528RD][GPS] Hot fix performance is poor when SUPL is in use |

Table 17. Changes in Firmware 2.3.4

| ID | Description |
|--------------|--|
| MT6261A-788 | [HL6528RD][CMER] +CIEV message is returned before "OK" when check AT+CFUN=4 |
| MT6261A-1099 | [HL6528RD] Release build for AHL6528RD.2.3.4.11CV10F46_P5 |
| MT6261A-1044 | [HL6528RD][+KJAM] Wrong error code when module enter the out of range parameter of +KJAM command |
| MT6261A-1092 | [HL6528RD] Integrate patch1609290_V10_F46_P5_sim_pin2 |
| MT6261A-1076 | [HL6528RD][POP3][KPOPREAD] List of possible <session_id>s doesn't show for test command |
| MT6261A-1089 | [HL6528RD][Location][+WMGNSSTEST] The response of test,read command +WMGNSSTEST is incorrect |

| ID | Description |
|--------------|---|
| MT6261A-1084 | [HL6528RD][POP3][KPOPCNX] List of possible <session_id>s doesn't show for test command |
| MT6261A-1080 | [HL6528RD][POP3][KPOPDEL] List of possible <session_id>s doesn't show for test command |
| MT6261A-1082 | [HL6528RD][*PSCSCN] Symbol "+" should be displayed precede <number> corresponding with <type>=145 of *PSCSCN command |
| MT6261A-1068 | [HL6528RD][POP3][KPOPCFGDEL] List of possible <session_id>s doesn't show for test command |
| MT6261A-996 | [HL6528RD] Received SMS output before unit has exited sending procedure |
| MT6261A-890 | [HL6528RD][Protocol][KHTTSPGET][KHTTSPPOST] With dummy and valid cert key pair, Module return error code when perform HTTPS method with client authentication (<sec_level> 3) |

Table 18. Changes in Firmware 2.3.3

| ID | Description |
|--------------|--|
| MT6261A-813 | [HL6528RD][+CLCK] Wrong response of CLCK command |
| MT6261A-254 | [HL6528RD][WMTXPOWER] OK is returned when module enter the out of range parameter of WMTXPOWER on band 1800,1900 |
| MT6261A-1037 | [HL6528RD] Update GSMA TS.25 database to 05 Sep 2016 |
| MT6261A-1045 | [HL6528RD] Module, with AT+KSLEEP=1 mode, cannot enter AT command after reboot by AT+CFUN=1,1 |
| MT6261A-1049 | [HL6528RD] +CCED returns unexpected CME ERROR: 30 |
| MT6261A-1038 | [HL6528RD][SAL] Support the option for unsolicited response sent to single channel |
| MT6261A-1039 | [HL6528RD][KJAM] Unsolicited Notification +KJAM is not returned when start jamming detection with detached network |
| MT6261A-1067 | [HL6528RD] Release build for AHL6528RD.2.3.3.11CV10F46_P4 |
| MT6261A-1033 | [HL6528RD][+KJAM] The +KJAM command can support without SIM card |
| MT6261A-1025 | [HL6528RD][Protocol][KTCP CNX] Module reset when create 25 TCP sessions |
| MT6261A-1010 | [HL6528RD][*PSNTRG] Response of test command is not expected. |
| MT6261A-978 | [HL6528RD] AT*PSCSCN not available |
| MT6261A-929 | [HL6528RD][MECS][+CMER] +CIEV:2,0 is not returned after at+cfun=1,1 |

Table 19. Changes in Firmware 2.3.2

| ID | Description |
|--------------|---|
| MT6261A-847 | [HL6528RD][CMUX][Linux] CONNECT is not returned on DLC port in Linux OS when start a TCP Connection in direct data flow |
| MT6261A-812 | [HL6528RD][V25ter][+IPR] Wrong response of IPR command |
| MT6261A-718 | [HL6528RD][CMUX] +CME ERROR: 100 is returned when read +IPR command on DLC port |
| MT6261A-576 | [HL6528RD][Protocol][+KTCPACKINFO] "+KTCPACKINFO: <session_id>,1" is shown before the URC +KTCP_ACK |
| MT6261A-342 | [HL6528RD][GPRS][CGSMS][SMS] - The unidentified ERROR returned when send SMS in Packet domain and PS detach |
| MT6261A-1036 | [HL6528RD] Integrate patch_1609030_V10_F46_P4_USB_sleep |
| MT6261A-1040 | [HL6528RD] Release build for AHL6528RD.2.3.2.11CV10F46_P4 |

| ID | Description |
|--------------|--|
| MT6261A-1034 | [HL6528RD][+KJAM] Extra <CR><LF> when module write +KJAM command |
| MT6261A-1030 | [HL6528RD] 1.8v Module cannot sleep when no UART/USB cable attached in AT+KSLEEP=1 mode |
| MT6261A-1028 | [HL6528RD] Integrate patch 1608260_V10_F46_P3_loc_up |
| MT6261A-1027 | [HL6528RD][+KCELLSCAN][+KNETSCAN][REG] Module is able to perform cell scan or network scan during voice call |
| MT6261A-1026 | [HL6528RD][STKENV][STKTR] Wrong response of incorrect syntax |
| MT6261A-1021 | [HL6528RD] Correct the misconfigured GPIOs that do not support variable pull up/pull down resistors |
| MT6261A-986 | [HL6528RD][CPIN] Show wrong error code when recover PIN code by enter 4-digits PUK |
| MT6261A-961 | [HL6528RD][CPIN] Module accept PIN code out of range value |
| MT6261A-1035 | [HL6528RD][GPS] Modem crash when running GPS performance test with Spirent GSS6700 |

Table 20. Changes in Firmware 2.3.1

| ID | Description |
|--------------|---|
| MT6261A-810 | [HL6528RD] at&d2 return +CME ERROR: 100 |
| MT6261A-751 | - [HL6528RD][Protocol][+KTCPSND] Use "+KTCPCRV" to read the received data, "ERROR" and "+KTCP_NOTIF: <session_id>,10" are NOT displayed |
| MT6261A-707 | [HL6528RD][HTTP][+KHTTPCFG] Wrong response when write +KHTTPCFG command |
| MT6261A-552 | [HL6528RD] +CPBS command shall support "EN" storage type |
| MT6261A-721 | [HL6528RD][CMUX] AT+CMUX? is returned incorrectly response |
| MT6261A-465 | [HL6528RD][+KUDPCFG] "NO CARRIER" should be returned when check UDP client configuration with invalid APN. |
| MT6261A-1017 | [HL6528RD][SSL][KIPOPT] TLS1.2 is not default for HTTPS |
| MT6261A-1011 | [HL6528RD][CMUX] DTR, DCD and RI pin signal are not working on CMUX channel |
| MT6261A-1020 | [HL6528RD][CMUX][KFTPCRV] +KFTP_IND: 1,2,<data_len> Notification is not returned on DLC1 when the last FTP command is executed successfully |
| MT6261A-1018 | [HL6528RD] Release build for AHL6528RD.2.3.1.11CV10F46_P2 |
| MT6261A-1013 | [HL6528RD] Memory leakage on some AT commands |
| MT6261A-979 | [HL6528RD][SAL] Unsolicited response fixes |
| MT6261A-980 | [HL6528RD] AVMS Monitoring Timer memory leak for external PDP activation |
| MT6261A-987 | [HL6528RD][Protocol] Command is still accepted when adding <af> parameter on TCP/HTTP/HTTPS Connection Configuration |
| MT6261A-994 | [HL6528RD][KTCPCLOSE] +CME ERROR: 922 is returned instead of OK when close a disconnected TCP operation |
| MT6261A-1005 | [HL6528RD] w character is blocked when using software flow control |
| MT6261A-891 | [HL6528RD][CMUX] Error code return when we open the CMUX again |

6.2. Interface Changes

Some AT commands have been updated in this firmware release.

Refer to document [2] AirPrime HL6528RDx AT Commands Interface Guide for more information.



7. Restrictions and Additional Information

The AVMS FOTA package installation time from the previous firmware **RHL6528RD.2.2.5.11CV10F46_P2.201608171741.m6261a_1** to this firmware **RHL6528RD.2.3.10.11CV10F48.201703231843.m6261a_1** may take up to 8 minutes (from +WDSI: 14 to +WDSI: 16 event indication).

The following table lists out important known issues.

Table 21. Restrictions and Known Issues

| Issue ID | Description |
|----------|--|
| N/A | Secure email feature is in beta stage. |



8. Troubleshooting

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

9. Certification Description

This firmware has obtained GCF/PTCRB type approval.



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