



Customer Release Note

AirPrime HL6528RDx Firmware 2.2.5



SIERRA
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Document History

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1. Introduction

1.1. Document Scope

This document is the Firmware 2.2.5 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 2.2.4

| Feature | Description |
|--|---------------------|
| Network Identity | AT*PSNWID command |
| Network Registration | AT*PSNTRG command |
| GSM Stack Boot Mode | AT+KGSMBOOT command |
| Field Strength Notification with Threshold | AT*PSFSNT command |
| Ciphering Notification | AT*PSCIPH command |
| Universal Time and Time Zone | AT*PSUTTZ command |
| GPRS counters | AT*PSGCNT command |

Table 2. New Features in Firmware 2.2.3

| Feature | Description |
|------------------------------|--------------------|
| Home PLMN | AT*PSHPLMN command |
| PIN Remaining Attempt Status | AT*PSPRAS command |
| SIM Phase | AT*PSSMPH command |
| Greeting Text | AT+CSGT command |
| Operator Name | AT*PSOPNM command |

Table 3. New Features in Firmware 2.2.2

| Feature | Description |
|---------------------------------|--|
| HTTPS client | HTTPS Client AT commands |
| BIP | Bearer Independent Protocol |
| Voice Codec selection | AT+WVR command |
| Display Audio Codec Information | AT+CODECINFO command |
| Aided GPS and SBAS | GPS frequency aiding and SBAS |
| SSL/TLS | Secure Sockets Layer Transport Layer Security |
| Initialize Voice Parameters | AT+VIP command |
| GPS aiding by SUPL | GNSS secure SUPL |

Table 4. New Features in Firmware 2.2.1

| Feature | Description |
|------------------------|---|
| SSL certificate | SSL Certificate Management commands |
| GNSS Antenna Detection | AT+KGNSSAD command |
| GSM Antenna Detection | AT+KGSMAD command |
| Xmodem | Firmware download using Xmodem protocol AT+WSD 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.2.2.5.11CV10F46_P2.201608171741.m6261a_1 |
| Date of generation | 2016/08/17 |
| IMEI SV | 04 |
| Stack version | MAUI_11C_W14_18_SP_V10_F46 |
| 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.2.2.5.11CV10F46_P2.201608171741.m6261a_1.exe |



6. Software Changes Description

6.1. Validated Corrections and Improvements

Table 11. Changes in Firmware 2.2.5

| ID | Description |
|--------------|---|
| MT6261A-1007 | [GPS] Do not use SUPL in case of aiding data available |
| MT6261A-1003 | [PSNTRG] Wrong response for *PSNTRG command |
| MT6261A-989 | [CERT][SUPL] SUPL-1.0-con-277; Failed |
| MT6261A-988 | [CERT][SUPL] SUPL-1.0-con-274; Failed |
| MT6261A-985 | [PSNTRG] Incorrect read command response order |
| MT6261A-971 | [CERT][SUPL] SUPL-1.0-con-023; Test 4; Failed |
| MT6261A-968 | Enable baseband to sleep during GPS navigation |
| MT6261A-936 | [COPS] <operator> is missing with CG class |
| MT6261A-923 | [GPS] Network initiated SUPL is not working |
| MT6261A-838 | [CMUT] "+CME ERROR: 3"/"+CME ERROR: 4" should be returned when entering invalid syntax/out of range value |
| MT6261A-695 | [KFTPRCV] "NO CARRIER" is returned instead of "CONNECT" when executing +KFTPRCV in FTP active mode |
| MT6261A-685 | [KFTPSND] "CONNECT" is not returned when executing +KFTPSND in FTP active mode |
| MT6261A-453 | [KCNXTIMER] "+CME ERROR: 3" should be returned upon command syntax error |
| MT6261A-450 | [KCNXCFG] "+CME ERROR: 3" should be returned upon command syntax error |
| MT6261A-447 | [KUDPDEL][KPATTERN] "+CME ERROR: 3" should be returned upon command syntax error |
| MT6261A-922 | [GPS] SUPL status notification is missing |

Table 12. Changes in Firmware 2.2.4

| ID | Description |
|-------------|--|
| MT6261A-983 | Modem crash when configuring GPS I2C output twice |
| MT6261A-977 | SUPL notification and verification is missing |
| MT6261A-976 | Increment IMEI_SV digit to 04 |
| MT6261A-975 | [CERT][SUPL]SUPL-1.0-con-031; Failed |
| MT6261A-972 | [CERT][SUPL]SUPL-1.0-con-030; Failed |
| MT6261A-967 | [CERT][SUPL]SUPL-1.0-con-100; Test 1; Failed |
| MT6261A-966 | [CERT][SUPL]SUPL-1.0-con-068; Failed |
| MT6261A-964 | [CERT][SUPL]SUPL-1.0-con-066; Failed |
| MT6261A-965 | [CERT][SUPL]SUPL-1.0-con-067; Failed |
| MT6261A-963 | Random TLLI is always the same value |
| MT6261A-962 | [CERT][SUPL]SUPL-1.0-con-002; Test 1 = IPv4 Failed |
| MT6261A-960 | [CERT][SUPL] SUPL-1.0-con-000; Test 1; Failed |

| ID | Description |
|-------------|--|
| MT6261A-958 | [GPS] Increase the 26MHz p-to-p voltage |
| MT6261A-956 | [GPS] Add trace delay for GPS log |
| MT6261A-955 | [*PSNTRG] Invalid URC parameters when no network coverage |
| MT6261A-954 | [CMUX] Add comment for priority setting for DLCs |
| MT6261A-953 | [*PSGAAT] Read command does return correct value when +CGCLASS="CG" or "CC" |
| MT6261A-951 | Update AVMS Test firmware version script for different format |
| MT6261A-948 | Merge Rev 2787 to latest trunk |
| MT6261A-946 | [CPBS] Disable "ME" storage |
| MT6261A-945 | [AVMS][WDSS][REG] Module only can make 13 connections to AVMS server in stress test |
| MT6261A-943 | [REG][PHNBK][CPBS] The SM storage should be selected after CFUN |
| MT6261A-937 | [ADMSCM] Bugtraq update |
| MT6261A-931 | [V25ter][ATZ] Wrong error code when entering out of range value for ATZ command |
| MT6261A-924 | [GPS] Improve hardware frequency aiding accuracy |
| MT6261A-923 | [GPS] Network initiated SUPL is not working |
| MT6261A-922 | [GPS] SUPL status notification is missing |
| MT6261A-916 | [Protocol] There is no synchronism between the responses of AT+K<UDP/FTP/HTTP/HTTPS>CFG? |
| MT6261A-914 | [REG][KHTTPHEADER & KHTTPSHEADER] No "OK" is returned after <EOF pattern> |
| MT6261A-912 | [CPIN][PSPRAS] Return +CME ERROR: 100 when enter wrong PIN for 4 times |
| MT6261A-911 | [REG][KHTTPGET][KHTTPPOST] "NO CARRIER" is returned when using KHTTPGET, KHTTPPOST until <session_id> 14 |
| MT6261A-906 | [CCWA] Wrong response for out of range value |
| MT6261A-905 | [CCWA] Extra space in command response |
| MT6261A-904 | Enhanced trace delay |
| MT6261A-885 | Support FCM in CMUX DLC port |
| MT6261A-878 | [CMUX] No response is returned when send DISC to disconnect |
| MT6261A-877 | [GPSSUPLCFG] Error is returned when setting <SUPL-TLS-cipher> is valid (-1,3,4,5) |
| MT6261A-862 | [GPSSUPLCFG] Default value is wrong |
| MT6261A-854 | [KPRIVKSTORE] Write command with out of range <NbData> |
| MT6261A-849 | [KHTTPSHEADER][KHTTPSGET][KHTTPSHEAD][KHTTPSPPOST] Module works with only 13 sessions |
| MT6261A-806 | [KCERTSTORE] OK is returned instead of ERROR code when checking input parameter of +KCERTSTORE with length of a parameter is invalid or content of input data is invalid or not supported |
| MT6261A-805 | [KCERTSTORE] Write command accepts invalid <NbData> input |
| MT6261A-772 | [KIPOPT] Wrong response is returned upon command syntax error |
| MT6261A-771 | [CGEREP][CSSN] Settings of +CGEREP and +CSSN are not saved in NV memory |
| MT6261A-752 | [KHTTPGET] Nothing is returned when using +KHTTPGET with an invalid IP address |
| MT6261A-727 | [+KIPOPT] For Server session, packet chopped by settings in TCPC instead of TCPS |
| MT6261A-723 | [CMUX] Sometimes module cannot load the website or download large amount of data (via PPP) on CMUX channel 2 while sending AT commands on CMUX channel 1&3 especially when signal strength is very bad |
| MT6261A-707 | [KHTTPCFG] Wrong response for +KHTTPCFG command |
| MT6261A-697 | [KFTP_ERROR] Wrong response is returned when bad IP or port number is used |

| ID | Description |
|-------------|---|
| MT6261A-686 | [KFTPSND] Extra echo for END CODE is displayed when uploading data to FTP server |
| MT6261A-659 | [KIPOPT] "CONNECT" is still returned, when sending data after reset TCP packet |
| MT6261A-649 | [KHTTPPOST] Wrong response upon command syntax error |
| MT6261A-627 | [KTCP_NOTIF] Missing "+KTCP_NOTIF: x,5" when starting a TCP connection with invalid IP address/correct IP address but wrong port number |
| MT6261A-622 | [KIPOPT] For Server session, packet chopped by settings in TCPC instead of TCPS |
| MT6261A-606 | [KTCPSEND] Module cannot receive +KTCP_DATA response |
| MT6261A-586 | [KTCP_NOTIF] Missing +KTCP_NOTIF: x,4 message on client side when server closes this session and vice versa |
| MT6261A-569 | [KTCPCRV] "+KTCP_NOTIF: <session_id>,<tcp_notif>" is not returned after "CONNECT" response |
| MT6261A-565 | [KTCPSTART] OK response is returned upon command syntax error |
| MT6261A-560 | Missing checking <af> parameter on TCP/FTP Connection Configuration |
| MT6261A-535 | [CPIN2] Quotes in the command response should be removed for CPIN2 |
| MT6261A-511 | [KUDPCFG] +CME ERROR: 912 is returned when starting server with <session_id> from 21 to 25 |
| MT6261A-445 | [KUDPCLOSE] +CME ERROR: 3 should be returned upon wrong command syntax |
| MT6261A-424 | [AVMS][WPPP] WPPP does not return ERROR when SIM not inserted or PIN not entered |
| MT6261A-383 | [SMS][CNMI] Wrong error code and default value |
| MT6261A-370 | [SMS][CSCB] Wrong response of CSCB |
| MT6261A-68 | [CPBW][CPBS] Cannot write phone book entries in FD storage |

Table 13. Changes in Firmware 2.2.3

| ID | Description |
|-------------|--|
| MT6261A-885 | Support FCM in CMUX DLC port |
| MT6261A-538 | [GCF] TC40.2.2.9 Failure - Emergency Call - With SIM/USIM - EFEC Field Populated - Network Locked - Dial 999 |
| MT6261A-695 | [KFTPCRV] "NO CARRIER" is returned instead of "CONNECT" when executing +KFTPCRV in FTP active mode |
| MT6261A-818 | [AT] Multiple AT commands on the same command line return ERROR |
| MT6261A-841 | [KHTTPSHEAD] Wrong response for +KHTTPSHEAD command |
| MT6261A-852 | [KHTTPSCNX] Wrong response for +KHTTPSCNX command |
| MT6261A-853 | [KHTTPSGET] Wrong response for +KHTTPSGET command |
| MT6261A-834 | [KCNXCFG][REG] Module cannot make 4 GPRS Connection Configuration |
| MT6261A-863 | [CMUX] Module cannot open 4 DLCs port and URCs cannot show to all DLC ports |
| MT6261A-697 | [KFTP_ERROR] Wrong response is returned when a bad IP or port number is used |
| MT6261A-866 | [KHTTPSDEL][Syntax] Wrong response for +KHTTPSDEL command |
| MT6261A-701 | [KFTPCRV] "+KFTP_ERROR: 1 " shall be returned when setting an invalid domain name |
| MT6261A-875 | [TCP] AT+KTCCPNX=1 reports immediately OK before getting IP address (vs. HL6528) |
| MT6261A-835 | [KHTTPSCFG] Wrong list of possible parameters for +KHTTPSCFG command |
| MT6261A-648 | [KHTTPDEL] +CME ERROR: 3 should be returned upon command syntax error |
| MT6261A-816 | Missing <CR><LF> after atv0 execution |
| MT6261A-752 | [HTTP][KHTTPGET] No answer when invoking +KHTTPGET with an invalid IP address |

| ID | Description |
|-------------|--|
| MT6261A-626 | [TCP] KTCP_NOTIF: x,3 (DNS error) should be returned when starting a TCP connection with invalid DNS address |
| MT6261A-843 | [KHTTPSPOST] Wrong response for +KHTTPSPOST command |
| MT6261A-832 | [CMUX] <N1> default value is incorrect |
| MT6261A-823 | [KCNXUP][KUDPCFG][REG] Module cannot retrieve 3 IP addresses |
| MT6261A-778 | [CMER] "+CIEV:1,x" is not returned as adjust the power supply to 3.0 Voltage |
| MT6261A-844 | [KHTTPSHEADER] Wrong response for +KHTTPSHEADER command |
| MT6261A-783 | [KFTPSND] Can't send >10KB data to server |
| MT6261A-893 | [HTTPS][SSL] TLS1.2 cipher suite is not enabled |
| MT6261A-857 | [KPRIVKSTORE][SSL] Module reset when entering private key |
| MT6261A-845 | [KHTTPSCLOSE] Wrong response for +KHTTPSCLOSE command |
| MT6261A-855 | [KCERTSTORE] Crash issue when writing the cert for GNSS |
| MT6261A-822 | Unexpected +SIM:0,1 URC when no SIM is inserted |
| MT6261A-865 | [KURCCFG] Some notifications and indications are not supported on HL6528 |

Table 14. Changes in Firmware 2.2.2

| ID | Description |
|-------|--|
| 92149 | SUPL PDP activation issue |
| 91972 | Additional args for AT+CPWC? |
| 92100 | Increment IMEI_SV digit to 03 |
| 90861 | [CMUX][Linux] Cannot send AT command on DLC (ttyGSM) port with Linux platform |
| 92076 | Audio ring tone does not stop |
| 91706 | [WEXTCLK] Wrong <status> reported by +WEXTCLK command on G module variant |
| 91105 | [KCELLSCAN] Cannot activate cell scan when SIM PIN code is locked |
| 91562 | ATN1 returns error |
| 91077 | [KCELLSCAN] OK is returned with invalid syntax of +KCELLSCAN command |
| 89892 | [KNETSCAN] Cannot activate network scan when SIM PIN code is locked |
| 91078 | [KCELLSCAN] Notification is incorrect when module activates cell scan |
| 91363 | [KNETSCAN] Missing <RAC> value in command response if <oper> is specified |
| 91182 | [*PSSTKI] Command requests pin code |
| 84259 | [Dial up] Module returns CME error code 692 when making a dial-up connection with standard modem 56000 bps |
| 91597 | ATLx and ATMx return ERROR |

Table 15. Changes in Firmware 2.2.1

| ID | Description |
|-------|---|
| 91470 | Unable to use AT+CLKK |
| 91402 | [SMS][CMGR][CSMP][REG] Lack of SMS's content of class 1,2,3 SMS |
| 90514 | [KSIMSEL] +SIM is returned 2 times for showing the SIM status |
| 86517 | [CMUX] After 10mins the device did NOT return +CME ERROR: 544 (CMUX connection timeout) |

| ID | Description |
|-------|--|
| 90376 | [GPRS][CGREG] Wrong response of CI on +CGREG command with enable network registration and location information unsolicited result code |
| 81868 | [CCLK] Should return ERROR with AT+CCLK? command after set Write command AT+CCLK=<time> (<time> is declared a Wrong Value) |
| 86403 | [SMS][CNMI] Settings of CNMI are not stored in NV memory |
| 88954 | [CGSMS] +CME ERROR: 3 is returned when checking the Test command |
| 90609 | [KSIMSEL] Module reports +CME ERROR: 4 for syntax error and +CME ERROR: 3 for out of range value |
| 90892 | [CSMP] Incorrect parameters are saved when input field is empty |

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.2.1.4.1.11CV10F37.201605061629.m6261a_1** to this firmware **RHL6528RD.2.2.5.11CV10F46_P2.201608171741.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 16. Restrictions and Known Issues

| Issue ID | Description |
|--------------|---|
| MT6261A-998 | When using SUPL, a module may fail to find a fix in the second session if the first location fix session has not been maintained long enough. |
| MT6261A-1013 | Modem reset when any of the +CCED/+KBND/+KCELL commands are continuously invoked during AT commands stress test. |
| MT6261A-1035 | Modem crash when running some internal GPS stress tests with a GPS simulator. |



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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