



Customer Release Note

AirPrime HL6528x Firmware 2.00



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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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
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1. Introduction

1.1. Document Scope

The scope of this document is the Firmware 2.00 release description for the AirPrime HL6528x embedded module.

1.2. Document Audience

This customer release note may be distributed to all direct and indirect customers, and will be posted on the corporate web site under the Support/Private area.

1.3. New Features/Enhancements

Table 1. New Features/Enhancements

Feature	Description
AVMS	Firmware Over The Air (FOTA) update. AirVantage ready.



2. Abbreviations and Definitions

Table 2. Abbreviations and Definitions

Abbreviation/Acronym	Definitions
AEC	Acoustic Echo Cancellation
AT	Attention
AVMS	Air Vantage Management Services
DCE	Data Circuit Equipment
DTE	Data Terminal Equipment
DTMF	Dual-tone multi-frequency signaling
DTR	Data Terminal Ready
FTP	File Transfer Protocol
GPIO	Global Purpose Input Output
GPRS	Global Packet Radio Service
IMEI	International Mobile Equipment Identity
NR	Noise Reduction
LCP	Link Control Protocol
ME	Mobile Equipment
MS	Mobile Station
PDP	Packet Data Protocol
PLMN	Public Land Mobile Networks
PPP	Point-to-Point Protocol
SIM	Subscriber Information Module
STK	SIM Application Toolkit
TCP	Transmission Control Protocol
UART	Universal Asynchronous Receiver Transmitter
UDP	User Datagram Protocol



3. Related Documentation

- [1] AirPrime HL6 and HL8 Series AT Commands Interface Guide
Reference: 4114680
- [2] HiloUpgrader User Guide
Reference: 2174015
- [3] AirPrime HL6528x Jamming Detection Application Note
Reference: 2174038
- [4] AirPrime HL6 and HL8 Series Development Kit User Guide
Reference: 4114877

4. Compatibility

Table 3. Hardware Compatibility

AirPrime Compatibility List
HL6528
HL6528-G
HL6528-2.8V
HL6528-G2.8V



5. Software Release Description

5.1. Release Identification

Table 4. Firmware Release Information

	Services (ATI3)
Identification	HL6N.002.00
Date of generation	2014-10-16 3:52:08 PM

5.2. Software Tools Version

Table 5. Software Tools Version

S/W Tools Name	Version
HiloUpgrader	6.0.0.2
SpyTracerV2	3.1.0
Hilo Starter Dev Tools	1.9.5 or higher

The upgrading tool and procedure are described in document [2] HiloUpgrader User Guide.



6. Software Changes Description

6.1. Validated Corrections/Improvements

ID	Description
75275/6425	[CR][DSDS][IMEI] IMEI_DS Management
74950	[DSDS][TCP] cannot use SIM2 for TCP connection
75181	[VIC001HL] AT+WDSI max value different from EWM100
75128	[VIC001HL] AT+WOPEN=xxxx should return OK
75161	[VIC1] EWM100 compatibility for +CMGR
6403	[SYSs80109][DSDS]When insert ChinaUnicom SIM card in slot 2, module cannot detect any SIM card
6237	[CSR][SS5E] Flawed NMEA codec
6243	[CSR][SS5E] System crashes after several minutes of NMEA traces on UART1
5831	[DSDS] AT+CNUM returns +CME ERROR: 100 a long time after reboot
5958	[DSDS] AT+KSS then AT+KNETSCAN if KNETSCAN=1 trigger a reboot
5553	[DSDS][+KJAM]KJAM URC is not right
6457	[GNSS][CR] incorrect display of jamming detection data in GPSEVCORE event
5785	[SYSs79967]AT+CHUP cannot end an active data call
6414	[SYSs80118][SMS]: "ME" storage change
6436	3GPP audio parameters (Analog)
6437	3GPP audio parameters (PCM)
6459	[DSDS] +CGSN Command return IMEI2 without SIM Inserted
6408	[SYSs80117]command AT+COPS syntax
6356	at+kdsds=? result is error when with SIM card in SIM holder 2.
6263	[SYSs79941] +CIEV:2,1 not reported in a timely manner after recovering network
6421	[CR][+KFTPCFG][490690-343026882]for +KFTPCFG, Need to extend the password to at least 40 bytes
6434	[CR][VIC1] Default value of CMGF should be 1
6401	[CR][VIC1] EWM100 compatibility: SLEEP mode control
6212	[MUX] AT+CMUX : one URC +KSUP displayed
5797	[SYSs79799][DSDS] MT voice call on non-default SIM doesn't work anymore
6097	[SYSs79899][DSDS] non default SIM doesn't register to GPRS
6388	[SYSs80051]ATH can't hang up the data call
6397	[SYSs80061][Brazil][DSDS] registration is denied when CLARO SIM card is on SIM slot 2
6333	[SYSs80061]on Slot 2 SIM card with ORANGE operator is register denied OR not inserted
6416	[SYSs80104][CNUM]Response of AT+CNUM is not good with some FF
5925	[SYSs80127]Sometimes AT+CLIP? fails
6433	[VIC1] +CGMM returns OK instead of EWM200
6430	[VIC1] Format of +CCED answer
6429	[VIC1] Format of +CCID answer
5647	AT+CLAC: some commands are not in AT document and some miss "+"
5679	AT+CMUX, MUX mode doesn't support.

ID	Description
5650	AT+CSGT? default greeting text error
5960	AT+KDSPTX? reply two "OK"
6435	If SIM slot2 is deactivated, there should be no +KSUPDS notification at boot
5928	MUX : no answer from KPOPCNX
6303	Rarely, after input "at+kplayamr", display error
6003	When MO a call, play an amr file, should be OK

6.2. Interface Changes

For changes to AT commands, refer to document [1] AirPrime HL6 and HL8 Series AT Commands Interface Guide.

7. Certification Description

7.1. GCF-CC & PTCRB

The following table summarizes the certifications inherited from previous release.

Module	GCF-CC (Lab Conformance only)	PTCRB
AirPrime HL6528x	Release 3.52.1	NAPRD.03 v5.18



8. Restrictions and Additional Information

This section lists our important known issues.

Issue ID	Description (What/When)	Impacted Domain	Impacted Sub-Domain
6110	+KSIMDET not supported	DEVICE	CONTROL
75561	If modem is set in flight mode (+CFUN=4), AT commands: +KSYNC, +KTEMPMON, +KGSMAD, +KJAM and +KSIMSLOT could not be used	DEVICE	CONTROL
75520	Uplinking mode doesn't work after a switch off	AVMS	
6393/74721 6343/74815	Instability when using the Location Services configured with output on UART	GNSS	



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