



## Customer Release Note

### AirPrime HL6528x Firmware 8.10



**SIERRA**  
WIRELESS®

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1.0  
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## 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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# Document History

Version	Date	Updates
1.0	Oct 7, 2016	Creation
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# 1. Introduction

## 1.1. Document Scope

The scope of this document is the Firmware 8.10 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

No new feature.



## 2. Abbreviations and Definitions

Table 1. 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 Rev15  
Reference: 4114680
- [2] HiloUpgrader User Guide  
Reference: 2174015
- [3] AirPrime HL6 and HL8 Series Development Kit User Guide  
Reference: 4114877
- [4] Air Prime HL6528x Dual SIM Dual Standby Application Note  
Reference: 2174048
- [5] AirPrime HL6 and HL8 Series Dual SIM Single Standby Application Note  
Reference: 2174034

## 4. Compatibility

Table 2. Hardware Compatibility

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



## 5. Software Release Description

### 5.1. Release Identification

Table 3. Firmware Release Information

	Services (AT13)	Comments
Identification	HL6N_008_10_20CF	DSDS (Dual Sim Dual Standby)
Date of generation	2016/10/07	
Binary Size	Total RO Size (Code + RO Data) 5243308 (5120.42kB) Total RW Size (RW Data + ZI Data) 2385920 (2330.00kB) Total ROM Size (Code + RO Data + RW Data) 5293812 (5169.74kB)	
Identification	HL6N_008_10_20EF	DSSS (Dual Sim Single Standby)
Date of generation	2016/10/07	
Binary Size	Total RO Size (Code + RO Data) 5238512 (5115.73kB) Total RW Size (RW Data + ZI Data) 2385800 (2329.88kB) Total ROM Size (Code + RO Data + RW Data) 5289016 (5165.05kB)	

### 5.2. Software Tools Version

Table 4. 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 (<http://source.sierrawireless.com/resources/sagemcomm2m/hilo/hiloupgrader>)



## 6. Software Changes Description

### 6.1. Validated Corrections/Improvements

ID	Description
STG4849-580	HL6 Echo cancellation not working with PCM audio configuration
STG4849-650	[DSSS] +CREG: 3 after +CREG: 1 after switching on the second SIM

### 6.2. Interface Changes

For changes to AT commands, refer to document [1] AirPrime HL6 and HL8 Series AT Commands Interface Guide Rev15



## 7. Certification Description

### 7.1. GCF-CC & PTCRB

The following table summarizes the certifications inherited from previous release.

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



## 8. Restrictions and Additional Information

This section lists out important known issues or limitations.

Issue ID	Description (What/When)	Impacted Domain	Impacted Sub-Domain
79547 / STG4849-418	[HTTPS] if server request client certificate, module answers with ALERT NO CERTIFICAT (then session is closed)	PROTOCOL	HTTPS
76890/76873/STG4849-293/STG4849-291	Sometimes, report of jamming on 900MHz while no jamming is ongoing +KJAM cannot run when +KNETSCAN is running	NETWORK	CONTROL
81578/81721/STG4849-441	+CPAS URC notifications	ME	STATUS
92321 / STG4849-638	Rarely, instability of the module when activating GPS AT+GPSSTART=2 and NMEA traces on I2C	GNSS	GNSS
89365 / STG4849-580	Echo cancellation is not working in PCM on demoboard, PCM parameters not fined tuned	AUDIO	PCM
92035 / STG4849-618	Sometimes, a click is heard on remote side when at commands is sent	AUDIO	AT
91284 / STG4849-610	With some SIM card, AT+COPS? returns half of the network provider name instead of full name	SIM	AT
90235 / STG4849-593	When removed and inserted multiple times (about 10), SIM is no more properly detected	SIM	SIM
STG4849-665	[DSSS] Instability when switching SIM with KSIMSEL=1 or 2 during data transmission after switch from Data Mode to Command Mode	SIM	DSSS
STG4849-664	[DSDS] URC CREG and CGREG not displayed when Call ongoing from NON default SIM and removing the default SIM	SIM	DSDS
STG4849-655	[AVMS] rarely AT+WDSS=1,1 returns WDSI 7 until next reboot or WDSS=1,0	AVMS	AVMS
STG4849-645	CGCLASS data only, first AT+WDSS=1,1 after reboot returns +CME ERROR 3	AVMS	AVMS