



AirPrime HL7518

Firmware 4.04 Customer Release Note



SIERRA
WIRELESS®

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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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Note: Some airlines may permit the use of cellular phones while the aircraft is on the ground and the door is open. Sierra Wireless modems may be used at this time.

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1. Introduction

This document is the Firmware 4.04 customer release note of the AirPrime HL7518.
Firmware 4.04 is a maintenance release based on Firmware 4.03.



2. Abbreviations and Definitions

Table 1. Abbreviations and Definitions

Abbreviation/Acronym	Definitions
AMS	AirVantage Management Services
BIP	Bearer Independent Protocol
DRB	Data Radio Bearer
eMBMS	LTE version of MBMS
ESM	EPS Session Management
FOTA	Firmware Over The Air
GPIO	General Purpose Input Output
ICMP	Internet Control Message Protocol
MBMS	Multimedia Broadcast Multicast Services
PDN	Packet Data Networks
PRB	Physical Resource Block
PS	Packet Switched
RLF	Radio Link Function
SIM	Subscriber Identity Module
UART	Universal Asynchronous Receiver Transmitter
USB	Universal Serial Bus



3. Related Documentation

- [1] AirPrime HL7518 Product Technical Specification
Reference number: 4115834
- [2] AirPrime HL7518 and HL7548 AT Commands Interface Guide
Reference number: 4116303



4. Compatibility

Firmware 4.04 is compatible with the AirPrime HL7518.

Note: *The firmware must be downloaded twice when downgrading to a firmware older than Firmware 2.19 due to differences in the partition table.*

Caution: *Do not downgrade to firmware versions older than Firmware 3.07 as this will make the module unstable when the network has 4Tx feature enabled.*



5. Software Release Description

5.1. Release Identification

Table 2. Firmware Release Information

Modem Firmware Identification (ATI3)	RHL75xx.4.04.142600.201801231340.x7160_1
Full Firmware Identification (ATI10)	Modem-Firmware: RHL75xx.4.04.142600.201801231340.x7160_1 Primary-Boot: RHL75xx.4.04.0200151007.201801231356.x7160_1 Secondary-Boot: RHL75xx.4.04.0200151007.201801231356.x7160_1 Update-Agent: RHL75xx.4.04.0200151007.201801231356.x7160_1 4G-Firmware: 7160.S3.561.05.3.737.05.0000 3G-Firmware: 202.426.183.42-54.35
ALL-IN-ONE Firmware FLS Image	Filename: RHL75xx.4.04.142600.201801231340.x7160_1_signed.flis File size in bytes: 20181291 Checksum (CRC32): 0x8A699AB3 Checksum (MD5): 6153BBE98708C5D234195D2380E4F1C2
ALL-IN-ONE Firmware image, Windows one-click Downloader	Filename: RHL75xx.4.04.142600.201801231340.x7160_1_signed.exe File size in bytes: 8561320 Checksum (CRC32): 0xEC9BD67C Checksum (MD5): DE6B1EE45AE077496C7A077FB538F1A4
Date of Generation	2018-01-23 13:56 GMT+8
IMEI SV	11 (HL7518)
Baseline Version	M2M_7160_VRZ_01_1426.00 + M2M_7160_VRZ_01_1426.00_TEST_PATCH_170926_SWI00180851_Patch01

5.2. Software Tools Versions

Table 3. Software Tools Versions

Software Tools Name	Version
FlashTool	v.4.140.3.66 DLL: v.4.140,0.0
Command Line FlashTool (DownloadTool.exe, dll)	v.1.37 DLL: v.4.140,0.0
USB Host Driver version	4.41

5.3. Released Files

Table 4. Released Files

Download Option	Files
All in one download executable	RHL75xx.4.04.142600.201801231340.x7160_1_signed.exe
All in one FLS file	RHL75xx.4.04.142600.201801231340.x7160_1_signed.flx

6. Software Changes

This section lists all validated corrections or improvements integrated in Firmware 4.04. Changes were based on Firmware 4.03.

Table 5. Validated Corrections and/or Improvements

ID	Description	Impacted Functionality/ Sub-Functionality
INT7160VRZ-707	In rare cases, the module may not be able to attach to LTE cell in particular network condition because of being unable to decode some SIB messages and skip additional information element introduced in higher than 3GPP versions 9.13.0.	LTE/Other



7. Restrictions and Known Issues

This section lists out important known issues.

Table 6. Restrictions and Known Issues

Issue ID	Description (What/When)
INT7160VRZ-148	Unexpected CGCLASS switching takes place after GPRS has been attached.
INT7160VRZ-272	Extra carriage-return-line-feed characters have been sent in AT+CMGR response.
INT7160VRZ-450	Due to lack of bootcore upgrade support in previous firmware (2.13, 2.19) and change in partition table introduced in FW 2.19, AMS FOTA upgrade or upgrade using +WDSD from previous firmware (2.13, 2.19) to firmware 2.21 or above is not recommended.
INT7160VRZ-343	The result by the test command AT+WMRXPOWER is slightly deviated when the input RF power is less than -80dBm.
INT7160VRZ-305	The module does not return +CMGS: <MR> intermediate response, if a MO SMS in text mode could be sent successfully.
INT7160VRZ-697	The module may fail to send or receive SMS after long hours of usage until next power cycle.
INT7160VRZ-698	Occasionally, SMS has some stability issues and might fail.

8. Troubleshooting

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

9. Certification

This firmware has passed certifications for Verizon.