



# AirPrime HL7518

## Firmware 4.03 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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Do not operate the Sierra Wireless modem in areas where cellular modems are not advised without proper device certifications. These areas include environments where cellular radio can interfere such as explosive atmospheres, medical equipment, or any other equipment which may be susceptible to any form of radio interference. The Sierra Wireless modem can transmit signals that could interfere with this equipment. Do not operate the Sierra Wireless modem in any aircraft, whether the aircraft is on the ground or in flight. In aircraft, the Sierra Wireless modem **MUST BE POWERED OFF**. When operating, the Sierra Wireless modem can transmit signals that could interfere with various onboard systems.

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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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The driver or operator of any vehicle should not operate the Sierra Wireless modem while in control of a vehicle. Doing so will detract from the driver or operator's control and operation of that vehicle. In some states and provinces, operating such communications devices while in control of a vehicle is an offence.

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# Document History

Version	Date	Updates
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# 1. Introduction

## 1.1. Document Scope

This document is the Firmware 4.03 customer release note of the AirPrime HL7518. Firmware 4.03 is a maintenance release based on Firmware 4.01.

## 1.2. Document Audience

This release note may be distributed to all direct and indirect customers and will be posted on [the Source](#).



## 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 4.03 is compatible with the AirPrime HL7518.

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

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**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.*

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## 5. Software Release Description

### 5.1. Release Identification

Table 2. Package Release Information

<b>Identification (AT13)</b>	RHL75xx.4.03.142600.201709280115.x7160_1
<b>Date of generation</b>	2017/09/28 01:15
<b>Binary size</b>	20180775
<b>MD5 Checksum</b>	23804426E15EF4C28D94AE595F6E68BF
<b>IMEI SV</b>	10
<b>Stack version</b>	M2M_7160_VRZ_01.1426 with patch M2M_7160_VRZ_01_1426.00_TEST_PATCH_SMS21813995_SMS21878706_170926
<b>Flash/RAM size</b>	1Gb/512Mb

### 5.2. Software Tools Versions

Table 3. Software Tools Versions

<b>Software Tools Name</b>	<b>Version</b>
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 and Download Processes

Table 4. Released Files

<b>Download Option</b>	<b>Files</b>
All in one download executable	RHL75xx.4.03.142600.201709280115.x7160_1_signed.exe
All in one FLS file	RHL75xx.4.03.142600.201709280115.x7160_1_signed.flis
All in one DWL file	RHL75xx.4.03.142600.201709280115.x7160_1_signed.dwl

## 6. Software Changes

This section lists all validated corrections or improvements integrated in Firmware 4.03. Issues are sorted alphabetically by impacted domain per firmware version in which they were fixed.

Table 5. Validated Corrections and/or Improvements

ID	Description	Impacted Functionality/ Sub-Functionality	Fixed in
INT7160VRZ-625	The AirPrime may not be able to send SMS with a newly provisioned SIM until the next power cycle	GSM/SMS	4.03
INT7160VRZ-669	The AirPrime restart can happen sometimes during activation with new SIM card.	SMS/MO	4.03
INT7160VRZ-670	With specific SIM, MO and MT SMS might fail sometimes.	SMS/MO	4.03
INT7160VRZ-678	Occasionally, few MO SMS may not be received at receiver after SIM provisioning and reset.	SMS/MO	4.03



## 7. Restrictions and Known Issues

This section lists our important known issues, which are sorted alphabetically by impacted domain.

Table 6. Restrictions and Known Issues

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

## 8. Troubleshooting

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

## 9. Certification Description

This firmware has passed certifications for Verizon.