



# AirPrime HL7692

## Firmware 2.26 Customer Release Note



**SIERRA**  
WIRELESS®

41112153  
2.0  
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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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*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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# Document History

Version	Date	Updates
1.0	June 27, 2018	Creation
2.0	December 17, 2018	Updated Table 3 Firmware Release Information



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# 1. Introduction

## 1.1. Document Scope

This document is the Firmware 2.26 customer release note of the AirPrime HL7692. Firmware 2.26 is a maintenance release based on Firmware 2.23.

## 1.2. New Features/Enhancements

Table 1. New Features/Enhancements

Feature	Description
Fast shutdown	AT-cmd to trigger Emergency Shutdown



## 2. Abbreviations and Definitions

Table 2. Abbreviations and Definitions

Abbreviation/Acronym	Definitions
ADC	Analog Digital Converter
GPIO	General Purpose Input Output
PCM	Pulse Code Modulation
PWM	Pulse Width Modulation
SIM	Subscriber Identity Module
UART	Universal Asynchronous Receiver Transmitter
UICC	Universal Integrated Circuit Card
USB	Universal Serial Bus



## 3. Related Documentation

- [1] AirPrime HL7692 Product Technical Specification  
Reference number: 4119631
- [2] AirPrime HL76xx AT Commands Interface Guide  
Reference number: 4118395

## 4. **Compatibility**

Firmware 2.26 is compatible with the AirPrime HL7692 embedded module.



# 5. Software Release Description

## 5.1. Release Identification

Table 3. Firmware Release Information

<b>Identification (ATI3)</b>	RHL769x.2.26.180400.201802141030.x7120m_1
<b>Full Firmware Identification (ATI10)</b>	Modem-Firmware: RHL769x.2.26.180400.201802141030.x7120m_1 Primary-Boot: RHL769x.2.26.0202170316.201802141030.x7120m_1 Secondary-Boot: RHL769x.2.26.0202170316.201802141030.x7120m_1 Update-Agent: RHL769x.2.26.0300170317.201802141030.x7120m_1 4G-Firmware: 7160.S3.561.41.4.807.05.25422.18265 3G-Firmware: 202.999.643.42-54.35
<b>ALL-IN-ONE Firmware FLS image</b>	Filename: HL769x.2.26.180400.201802141030.x7120m_1.fl5 File size in bytes: 20841355 Checksum (CRC32): 0xA6354F4F Checksum (MD5): 28FDBD7EA2CACAD53843D31DF3545187
<b>ALL-IN-ONE Firmware image, Windows one-click downloader</b>	Filename: HL769x.2.26.180400.201802141030.x7120m_1.exe File size in bytes: 8908996 Checksum (CRC32): 0x8787CB3F Checksum (MD5): 0AB0A13096BD498EC28089F29898EF7B
<b>Date of generation</b>	2018-02-14 12:02:13 GMT+8
<b>IMEI SV</b>	06 (HL7692)
<b>Stack version</b>	M2M_7120M_HL7690_01.1804.00

## 5.2. Software Tools Versions

Table 4. 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	WMC_comneon8_v4.32.0 WMC_imc1_v4.44.0_cust	

## 5.3. Released Files

Table 5. Released Files

Download Option	Files
All in one download executable	HL769x.2.26.180400.201802141030.x7120m_1.exe
All in one FLS file	HL769x.2.26.180400.201802141030.x7120m_1.flx
All in one DWL file	HL769x.2.26.180400.201802141030.x7120m_1.dwl

## 6. Software Changes

### 6.1. Validated Corrections/Improvements

This section lists all corrections or improvements integrated in Firmware 2.26.

**Table 6. Validated Corrections and Improvements**

ID	Description	Impacted Functionality / Sub-Functionality
INT7120M-908	+CGCLASS value could change to "CC" when PS detach is done by +KAAT=0. This could result in error when trying to trigger PS Attach using +KAAT=1.	AT/GPRS
INT7120M-929	A listening TCP server on the module may not accept incoming connection requests after an AVMS connection is activated.	AT/Other
INT7120M-933	MCC & MNC could be incorrectly shown in +KCELL command.	AT/Other
INT7120M-159	+CPBR read command for phonebook entry of empty <number> could have incorrect <type> = 0 instead of 129 or 145.	AT/Other
INT7120M-939	With an opened unbound UDP socket (i.e. an UDP socket without valid DNS information), the module may return an unsolicited response +KUDP_NOTIF: 2.8 if it sends data terminated with ETX to the connected peer. In addition, if the module reads data from the connected peer, it can return +CME ERROR: 923.	AT/UDP
INT7120M-910	Device resets when PPP connection over UART is used with a baud rate higher than 115200bps due to an excessive number of RTS interrupts	DEVICE/Other
INT7120M-960	The module may not register to the last PLMN followed by a restart.	GPRS/Other
INT7120M-945	+CGCLASS value could be changed to "CC" when PS detach has been done by +CGATT=0. This could result in error when trying to trigger PS attach using +CGATT=1.	GPRS/Other
INT7120M-940	The module may not return OK response of +KTCPSND command if it has been inappropriately switched to the online command mode from the data mode and triggered the connected server to close the connection.	GPRS/Other
INT7120M-391	T3412 timer status may show in off state when the UE RRC state changes from "Connected" to "Idle".	LTE/Other
INT7120M-957	In rare cases, the module may not be able to attach to an LTE cell in a particular location and network condition and will fall back to 2G if corresponding cell is available.	LTE/Other
INT7120M-952	The module restart can happen in rare cases while performing data transfer on UART 4 wire.	UART/Driver
INT7120M-831	The module may restart in FTP through the Internet connection with NCM in Linux environment.	USB/Other

## 6.2. Interface Changes

Command	Comment
AT+WESHUTDOWN	Enable/Disable emergency shutdown feature by GPIO



## 7. Restrictions and Additional Information

This section lists additional information or restrictions that must be considered.

Table 7. Restrictions and Additional Information

ID	Description	Impacted Functionality / Sub-Functionality
INT7120M-935	When the module is used with Sierra Smart SIM and registered in 2G, it may need 5 mins or more to re-attach to packet switch service if a PS detach is triggered from AVMS server.	GPRS/Other
INT7120M-986	The module always search 2G network first to register with Sierra Smart SIM (see note for possible workaround).	GPRS/Other
INT7120M-987	The module always search 2G network first to register. It may take a long time to register to NW with Sierra Smart SIM (see note for possible workaround).	GPRS/Other

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*Note: Sierra Smart SIM is only compatible with HL7692 in 4G. Default configuration of HL7692 should be AT+KSRAT=5 (LTE only) when using a Sierra Smart SIM.*

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## 8. Troubleshooting

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

## 9. Certification Description

The following table summarizes the certifications passed for this release.

Product	GCF
AirPrime HL7692	3.64.0