



AirPrime HL7692

Firmware HL769x.2.23 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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Document History

Version	Date	Updates
1.0	August 22, 2017	Creation
2.0	April 26, 2018	Updated Table 5 Validated Corrections/Improvements
		Removed HL7690



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1. Introduction

This document is the Firmware HL769x.2.23 customer release note of the AirPrime HL7692.



2. Abbreviations and Definitions

Table 1. 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

This firmware is compatible with the AirPrime HL7692 embedded module.



5. Software Release Description

5.1. Release Identification

Table 2. Firmware Release Information

Date of generation	Jun 23 2017 11:40 GMT+8
IMEI SV	HL7692: 3
Baseline version	172400
Modem Firmware Identification (ATI3)	RHL769x.2.23.172400.201706231140.x7120m_1
Full Firmware Identification (ATI10)	Modem-Firmware: RHL769x.2.23.172400.201706231140.x7120m_1 Primary-Boot: RHL769x.2.23.02.02.20170316.201706231140.x7120m_1 Secondary-Boot: RHL769x.2.23.02.02.20170316.201706231140.x7120m_1 Update-Agent: RHL769x.2.23.03.00.20170317.201706231140.x7120m_1 4G-Firmware: 7160.S3.561.41.3.726.02.0000 3G-Firmware: 202.642.640.42-54.35
ALL-IN-ONE Firmware FLS image	Filename: HL769x.2.23.172400.201706231140.x7120m_1_signed.fl File size in bytes: 20929467 Checksum (CRC32): 0xF9CECB27 Checksum (MD5): 0039DDA6ABDFE0C59DDA438D6794C43
ALL-IN-ONE Firmware image, Windows one-click downloader	Filename: HL769x.2.23.172400.201706231140.x7120m_1_signed.exe File size in bytes: 8906494 Checksum (CRC32): 0xE8D1703D Checksum (MD5): 03FDED8497820FDB6211F193C1F3429E

5.2. Software Tools Versions

Table 3. Software Tools Version

Software Tools Name	Version	Resource File
USB Flash Driver	v.4.140.3.66 DLL=v.4.140,0.0	Not applicable
Command Line FlashTool (DownloadTool.exe, dll)	v.1.37 DLL=v.4.140,0.0	Not applicable
USB Host Driver version	WMC_comneon8_v4.32.0 WMC_imc1_v4.44.0_cust	Not applicable

5.3. Released Files and Download Processes

Table 4. Released Files

Download Option	Released Files and Download Processes
Released Files	Refer to Table 2 Firmware Release Information
Download Process	<p>ALL-IN-ONE Firmware image, Windows one-click downloader: Double click the file and then reboot or re-power on the device; the download tool embedded in the executable will start downloading the firmware to the device.</p> <p>ALL-IN-ONE Firmware FLS image: Run the following command line and then reboot or re-power on the device; the download tool will start downloading the firmware to the device: <code>DownloadTool -c USB1 <All-In-One-FLS-Image></code></p>

Note: Prior to firmware download, the USB cable must be connected to the HS-USB port of the device, and the USB Flash Driver must be installed. Refer to document [2] AirPrime HL76xx AT Commands Interface Guide for more information on the download process.

6. Software Changes

This section lists all corrections or improvements integrated in Firmware HL769x.2.23. Issues are sorted alphabetically by Impacted Domain.

Table 5. Validated Corrections/Improvements

ID	Description	Impacted Domain / Sub-Domain
INT7120M-125	When "Transfer-Encoding: chunked" is used (configured by AT+KHTTPHEADER) and user does not terminate the uplink transfer with EOF pattern, EOF pattern will be missed in the HTTPPOST server response	AT/IP
INT7120M-92	Device incorrectly sends EOF pattern after the +KFTPSND data session	AT/IP
INT7120M-93	+KTCP_DATA indications are displayed on the terminal in case of direct flow connection with AT+KTCPSTART command	AT/IP
INT7120M-122	After a +KUDPSND data session is suspended with "+++" or DTR1, followed by a +KUDPRCV data session, ATO<session_id> will fail to resume the last +KUDPSND data session	AT/IP
INT7120M-131	After a +KTCPSND data session is suspended with "+++" or DTR1, followed by a +KTCPRCV data session, ATO<session_id> will fail to resume the last +KTCPSND data session	AT/IP
INT7120M-332	AT+KCERTSTORE does not allow 3000 characters length	AT/IP
INT7120M-850	+KHTTPSCFG returns value 4 for the <sec_level> parameter when it is set to 3	AT/IP
INT7120M-889	+KTCP_NOTIF indications do not make use of SSL error codes	AT/IP
INT7120M-899	AT+CSCA write command does not report the appropriate extended error code when no parameter is input	AT/SMS
INT7120M-914	AT+CMUX write command reports an error when the value of <T3> or <K> parameters is not null	CMUX/Other
INT7120M-895	AT+CGDCONT cannot define a PDP context with empty APN	GPRS/Other
INT7120M-891	In 2G mode and after activating a PDP, it is not possible to define multiple PDPs with the same APN by using the +CGDCONT command	GPRS/Other
INT7120M-913	Update IMEI SV to 03 for HL7692	GSM/Other
INT7120M-904	When reading the system clock with the AT+CCLK? command, the time zone is updated by NITZ even when +CTZU is disabled	GSM/Other
INT7120M-884	SIM detach occurs when AT+CSIM fails to execute a READ RECORD command	SIM/Other
INT7120M-886	AT+CSIM write command response duplicates the command line when the device is registered to a 4G network	SIM/Other

7. Restrictions and Additional Information

This section lists additional information or restrictions that must be considered. Issues are sorted alphabetically by Impacted Domain.

Table 6. Restrictions and Additional Information

ID	Description	Impacted Domain / Sub-Domain
INT7120M-583	When EOF is sent, +KFTPSND transfer is terminated without completing the data transfer	AT/IP
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-831	Device reset occurs during USB NCM stress test in Linux	USB/Other
INT7120M-935	When the module is used with a Sierra Wireless 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 the AVMS server.	GRPS/Other

8. Troubleshooting

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

>> | 9. Certification

The following table summarizes the certifications passed for this release.

Table 7. Certification

Product	GCF
AirPrime HL7692	Approved