



AirPrime HL7692

Firmware 2.27 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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Document History

Version	Date	Updates
1.0	October 15, 2018	Creation
2.0	December 17, 2018	Added section 10 Radio Equipment Directive (RED) Continuity



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1. Introduction

This document is the Firmware 2.27 customer release note of the AirPrime HL7692. Firmware 2.27 is a maintenance release based on Firmware 2.26.



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

Firmware 2.27 is compatible with the AirPrime HL7692 embedded module.



5. Software Release Description

5.1. Release Identification

Table 2. Firmware Release Information

Identification (ATI3)	RHL769x.2.27.183100.201809071813.x7120m_3
Full Firmware Identification (ATI10)	Modem-Firmware: RHL769x.2.27.183100.201809071813.x7120m_3 Primary-Boot: RHL769x.2.27.0202170316.201809071813.x7120m_3 Secondary-Boot: RHL769x.2.27.0202170316.201809071813.x7120m_3 Update-Agent: RHL769x.2.27.0300170317.201809071813.x7120m_3 4G-Firmware: 7160.S3.561.41.4.832.02.42004.18265 3G-Firmware: 202.999.643.42-54.35
ALL-IN-ONE Firmware FLS image	Filename: HL769x.2.27.183100.201809071813.x7120m_3.fl5 File size in bytes: 20715335 Checksum (CRC32): 0x5E5AAB5C Checksum (MD5): 4F7F57197754325F50ACC3E65EF021C3
ALL-IN-ONE Firmware image, Windows one-click downloader	Filename: HL769x.2.27.183100.201809071813.x7120m_3.exe File size in bytes: 8859133 Checksum (CRC32): 0xFF88ECC6 Checksum (MD5): 7CBBFE3C5662E3B3B2E15631DEBCDB7A
Date of generation	Sep 07 2018 18:13 GMT+8
IMEI SV	HL7692: 7
Stack version	M2M_7120M_HL7690_01.1831.00

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	WMC_comneon8_v4.32.0 WMC_imc1_v4.44.0_cust

5.3. Released Files

Table 4. Released Files

Download Option	Files
All in one download executable	HL769x.2.27.183100.201809071813.x7120m_3.exe
All in one FLS file	HL769x.2.27.183100.201809071813.x7120m_3.flx
All in one DWL file	HL769x.2.27.183100.201809071813.x7120m_3.dwl

>> 6. Software Changes

6.1. Validated Corrections/Improvements

This section lists all corrections or improvements integrated in Firmware 2.27 from Firmware 2.26.

Table 5. Validated Corrections and Improvements

ID	Description	Impacted Functionality / Sub-Functionality
INT7120M-994	With the module acting as TCP server, very rarely it may not be able to handle the client requests.	AT/Other
INT7120M-998	"NO CARRIER" may not be received on the module when a PPP connection termination happens on a CMUX port.	AT/Other
INT7120M-987	With a specific SIM, the module could always search 2G network first to register and may take long time to register to Network.	GPRS/Other
INT7120M-993	When +KSRAT is set to 9, the module may always search 2G network first to register.	GPRS/Other
INT7120M-1026	The module may not show the CONNECT indication when entering the data mode by command AT+KTCPSTART.	OTHER/Other
INT7120M-969	When the module is working as TCP server to send data and it closes TCP connection immediately without waiting for ACK of complete data sent, it may not receive the data correctly in next connection in very rare cases.	TCP

6.2. Interface Changes

Table 6. Interface Changes

Command	Comment
AT+CEER	Added LTE reject error code in AT+CEER



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-1025	On the module, +CSQ command might return incorrect LTE RSSI in some scenarios.	AT/Other
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-997	Sometimes PPP Connection may not be established on the module and may throw IPCP REJ.	OTHER/Other

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

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.

Table 8. Certification Description

Product	GCF
AirPrime HL7692	3.64.0

10. Radio Equipment Directive (RED) Continuity

The following table summarizes the Radio Equipment Directive (RED) compliance.

Table 9. Radio Equipment Directive (RED) Compliance

Product	Release	RED Impact
AirPrime HL7692	FW 2.27	None