



AirPrime HL7539

Firmware 2.8 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

1.1. Document Scope

This document is the Firmware 2.8 customer release note of the HL7539.

1.2. Document Audience

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

1.3. Main Features

Table 1. Main Features

Feature	Description
LTE	Wireless stack and 3GPP AT commands
Diversity	1 x Main Antenna and 1 x RX Diversity
USB/UART	USB 2.0 interface and UART serial interface
SIM	SIM access AT commands
GPIO	12 GPIO interfaces and related control AT commands
Cell information/monitoring	Cell information/monitoring AT commands
Band	Band RAT configurations AT commands
RF test	RF TX and RX test AT commands
Temperature monitoring	Temperature monitoring AT command
IP AT commands	Internet AT commands for TCP/UDP/FTP (Experimental)



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 HL7539 Product Technical Specification
Reference number: 4118584
- [2] AirPrime HL7539 AT Commands Interface Guide
Reference number: 4118453

4. Compatibility

This firmware is compatible with DV1.1 or newer versions of the AirPrime HL7539.



5. Software Release Description

5.1. Release Identification

Table 3. Firmware Release Information

Identification (ATI3)	RHL7539.2.8.173700.201709291522.x7160_1
Full Firmware Identification (ATI10)	Modem-Firmware: RHL7539.2.8.173700.201709291522.x7160_1 Primary-Boot: RHL7539.2.8.0200151028.201709291522.x7160_1 Secondary-Boot: RHL7539.2.8.0200151028.201709291522.x7160_1 Update-Agent: RHL7539.2.8.0200151028.201709291522.x7160_1 4G-Firmware: 7160.S3.561.16.4.740.00.1935.18265 3G-Firmware: 202.999.123.43-54.35
ALL-IN-ONE Firmware FLS image	Filename = RHL7539.2.8.173700.201709291522.x7160_1.flis File size in bytes = 20665759 Checksum(CRC32) = 0x0E835524 Checksum(MD5) = C5682D8BE53F20B37C33C1383359C588
ALL-IN-ONE Firmware image, Windows one-click downloader	Filename = RHL7539.2.8.173700.201709291522.x7160_1.exe File size in bytes = 8816580 Checksum(CRC32) = 0x46AF171C Checksum(MD5) = 85619FF2A3E72A423B387262B99FF8E7
Date of generation	2017-09-29 15:22:00 GMT+9
IMEI SV	02 (HL7539)
Stack version	M2M_7160_HL7538_HL7539_1737.00

5.2. Software Tools Versions

Table 4. 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	4.19

5.3. Released Files

Table 5. Released Files

Download Option	Files
All in one download executable	RHL7539.2.8.173700.201709291522.x7160_1.exe
All in one FLS file	RHL7539.2.8.173700.201709291522.x7160_1.flc
All in one DWL file	RHL7539.2.8.173700.201709291522.x7160_1.dwl

6. Software Changes

This section lists all corrections or improvements integrated in Firmware 2.8.

Table 6. Validated Corrections and Improvements

ID	Description	Impacted Functionality / Sub-Functionality	Fixed in
INT7160JPN-313	+CPMS setting is not persistent to the power cycles.	AT/SMS	2.8
INT7160JPN-320	AirPrime allows user to successfully setup a dial up connection, although it is still searching for the network.	GPRS/Data	2.8
INT7160JPN-311	Under poor network condition, repeated network registration and deregistration could make AirPrime restart.	GSM/Other	2.8
INT7160JPN-333	With a DoCoMo M2M SIM, AirPrime could not stably register to the network over 1 minute.	GSM/MM	2.8
INT7160JPN-322	As long as the network state has been changed, RI of AirPrime does not respond accordingly.	GSM/UART	2.8
INT7160JPN-266	PDN account credentials are not persistent to the AirPrime resets.	OTHER/Other	2.8



7. Restrictions and Additional Information

This section lists out important known issues.

Table 7. Restrictions and Additional Information

ID	Description
INT7160JPN-103	Display wrong URC for +KTCP_DATA
INT7160JPN-126	Remaining data still can be read if the UDP socket contains more data than <ndata> bytes
INT7160JPN-153	Display many <NULL> after toggling DTR during TCP/UDP receiving process.
INT7160JPN-216	With dummy and valid cert key pair, Module return error code when perform HTTPS method with client authentication
INT7160JPN-352	AirPrime send 5MB file to FTP server, but the data is incorrect.
INT7160JPN-340	AirPrime may not send NO CARRIER URC after disconnection from PPP Daemon.
INT7160JPN-341	AirPrime may not attach to NW (no "+CGREG:1" indication) after DUN is disconnected. Workaround available.



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

Module	NTT DoCoMo
AirPrime HL7539	Yes