



AirPrime HL7648

Firmware 04.02.A14 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

This document is the Firmware 04.02.A14 customer release note of the AirPrime HL7648.



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 HL7648 Product Technical Specification
Reference number: 4119069
- [2] AirPrime HL76xx AT Commands Interface Guide
Reference number: 4118395
- [3] AirPrime HL7 Series Firmware Download User Guide
Reference number: 4116153

4. Compatibility

This firmware is compatible with HL7648 modules.



5. Software Release Description

5.1. Release Identification

Table 2. Firmware Information for AT&T

Maturity / Maturity ID	Release / R
Date of generation	Feb 22 2018 16:56 GMT+8
IMEI SV	5
Baseline version	164804
Modem Firmware Identification (ATI3)	SWIMCB71XX-AIM1.04.02.A14.164804.201802221656.01
Full Firmware Identification (ATI10)	Modem-Firmware: SWIMCB71XX-AIM1.04.02.A14.164804.201802221656.01 Primary-Boot: SWIMCB71XX.04.02.A14.0307170717.201802221656.01 Secondary-Boot: SWIMCB71XX.04.02.A14.0307170717.201802221656.01 Update-Agent: SWIMCB71XX.04.02.A14.0302170712.201802221656.01 4G-Firmware: 7160.S3.561.46.4.751.00.4156.18265 3G-Firmware: 202.639.406.43-54.35
ALL-IN-ONE Firmware FLS Image	Filename: SWIMCB71XX-AIM1.04.02.A14.164804.201802221656.01_signed.flx File size in bytes: 22698487 Checksum (CRC32): 0xF6059FE9 Checksum (MD5): 8B513214F3FED7CE935FC00E6158D54C
ALL-IN-ONE Firmware Image, Windows one-click Downloader	Filename: SWIMCB71XX-AIM1.04.02.A14.164804.201802221656.01_signed.exe File size in bytes: 9618297 Checksum (CRC32): 0x510E8967 Checksum (MD5): 8DCA0E330ADEF050D7A0B951F8720D73

Table 3. Firmware Information for T-Mobile

Maturity / Maturity ID	Release / R
Date of generation	Feb 22 2018 16:56 GMT+8
IMEI SV	5
Baseline version	164804
Modem Firmware Identification (ATI3)	SWIMCB71XX-MIM1.04.02.A14.164804.201802221656.01
Full Firmware Identification (ATI10)	Modem-Firmware: SWIMCB71XX-MIM1.04.02.A14.164804.201802221656.01 Primary-Boot: SWIMCB71XX.04.02.A14.0307170717.201802221656.01 Secondary-Boot: SWIMCB71XX.04.02.A14.0307170717.201802221656.01 Update-Agent: SWIMCB71XX.04.02.A14.0302170712.201802221656.01 4G-Firmware: 7160.S3.561.46.4.751.00.4156.18265 3G-Firmware: 202.639.406.43-54.35
ALL-IN-ONE Firmware FLS Image	Filename: SWIMCB71XX-MIM1.04.02.A14.164804.201802221656.01_signed.flx File size in bytes: 22513475 Checksum (CRC32): 0xF7D3EABC Checksum (MD5): 0A58DBD8C215E4DC8F3B986FE5C54C16
ALL-IN-ONE Firmware Image, Windows one-click Downloader	Filename: SWIMCB71XX-MIM1.04.02.A14.164804.201802221656.01_signed.exe File size in bytes: 9557956 Checksum (CRC32): 0x122E9B09 Checksum (MD5): B65602AAFCB3AB709259FDD218189FA4

5.2. Software Tools Versions

Table 4. Software Tools Versions

S/W Tools Name	Version	Resource File
USB Flash Driver	v.4.140.3.66 DLL=v.4.140,0.0	N/A
Command Line FlashTool (DownloadTool.exe, dll)	v.1.37 DLL=v.4.140,0.0	N/A
USB Host Driver	WMC_comneon8_v4.32.0 WMC_imc1_v4.44.0_cust	N/A

5.3. Released Files and Download Processes

Table 5. Released Files and Download Processes

Download Option	Released Files and Download Processes
Released Files	Refer to 5.1 Release Identification
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 then download the firmware to the device. The one-click file includes the command line FlashTool.</p> <p>ALL-IN-ONE Firmware FLS image: Run command line <code>DownloadTool -c USB1 <All-In-One-FLS-Image></code> and then reboot or re-power on the device. The download tool will then download the firmware to the device.</p>

Prior to performing a 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 [3] AirPrime HL7 Series Firmware Download User Guide for more information on the download process.

Compatibility between the one-click file and module type should be taken into consideration, especially with regards to security.

Table 6. Compatibility Matrix

Firmware	Non-Fused Module		Fused Module	
	One-Click	+WSD	One-Click	+WSD
04.02.A1x signed	N/A	N/A	OK	OK

Refer to document [2] AirPrime HL76xx AT Commands Interface Guide for more information regarding +WSD (*.dwl).

6. Software Changes

This section lists all corrections or improvements integrated in Firmware 04.02.A14.

Table 7. Validated Corrections/Improvements

ID	Description
INT71XXMCBL-1758	[ATD]Error code display when wrong at command ATD* is set
INT71XXMCBL-2006	[SWIR_SIM_V4.1]After 23 hours, LOCI/EPSLOCI is not updated
INT71XXMCBL-2199	[FTP][KFTPSND] Data is lost when sending a 5MB file to FTP server
INT71XXMCBL-2202	[+KUDPCFG][REG] When IP stack runs out of socket in socket pool, wrong +CME ERROR: 912 is reported instead of +CME ERROR: 902
INT71XXMCBL-2242	Integrated patch for SIB ASN.1 decoding issue
INT71XXMCBL-2243	[MCBL][AVMS] Increased size of AVMS task queue to avoid crash during monitoring
INT71XXMCBL-2258	[0402A] Integrated release SWIMCB71XX.04.02.A14.164804



7. Troubleshooting

Please contact customer service for support and debugging information.