



AirPrime RC76xx

Customer Release Notes for Release 8



SIERRA
WIRELESS®

41114257
1.0
June 01, 2021

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Document History

Version	Date	Updates
1.0	June 01, 2021	Creation of CRN for R8 to be published on the Source



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1. Introduction

1.1. Document Scope

This document describes RC76xx firmware releases.

1.2. Document Audience

These release notes may be distributed to all direct and indirect customers.

2.

Abbreviations and Definitions

Table 1. Abbreviations and Definitions

Abbreviation/Acronym	Definitions
AT	Access Terminal, Attention
EDL	Emergency Download
FDT	Firmware Download Tool
GCF	Global Certification Forum
PSM	Power Saving Mode
QMI	Qualcomm Messaging Interface
SDP	Software Download Protocol

3.

Related Documentation

- [1] AirPrime RC7611 Product Technical Specification
Reference number: 41113440
- [2] AirPrime RC76xx AT Command Reference Guide
Reference number: 41113566
- [3] AirPrime RC76xx Customer Release Notes (internal only)
Reference number: 41114005
- [4] AirPrime RC76xx Customer Release Notes for Release 6.1
Reference number: 41113793
- [5] AirPrime RC76xx Customer Release Notes for Release 6.2
Reference number: 41114091
- [6] AirPrime RC76xx Customer Release Notes for Release 7.1
Reference number: 41114248
- [7] Interface Specification for MDM9x07 AT Commands
Reference number: 41113399

4.

Compatibility

4.1. Hardware Compatibility

Table 2. Hardware Compatibility

AirPrime Compatibility List	
RC7611	LTE Cat-4, LTE bands 2/4/5/12/13/14/25/26/66/71
RC7611-1	LTE Cat-1, LTE bands 2/4/5/12/13/14/25/26/66/71
RC7620	LTE Cat-4, LTE bands 1/3/7/8/20/28(A+B) WCDMA bands 1/8, GSM900/1800
RC7620-1	LTE Cat-1, LTE bands 1/3/7/8/20/28(A+B) WCDMA bands 1/8, GSM900/1800
RC7630	LTE Cat-4, LTE bands 1/3/5/7/8/18/19/21
RC7630-1	LTE Cat-1, LTE bands 1/3/5/7/8/18/19/21

5.

SWI9X07H Release 8

SWI9X07H Release 8 is a major release.

5.1. Software Release Description

5.1.1. Release Identification

Table 3. Firmware Release Information

Component	Revision
Modem Firmware	SWI9X07H_00.08.07.00 0ce4c1 jenkins 2021/03/17 02:18:20
Legato Application Framework	20.03.0.m1.ThreadX.rc41
Binary Size	29.1 MB (compressed one-click exe)
IMEI SV	17
Qualcomm baseline	MDM9607.TX.1.0-00089-STD.PROD-1.353159.1.363371.1
Qualcomm SBA	MDM9607.TX.1.0 Post-CS 0.0.089.1.363371.1.378695.1
Supported H/W	RC7620, RC7620-1, RC7630, RC7630-1

5.1.2. Software Tools Version

Note: Download the following tools from <https://source.sierrawireless.com/>

Table 4. Software Tools Version

Software Tools Name	Version
Windows Driver Package	B4836
Linux Drivers	S2.39N2.60
Linux SDK	SLQS04.00.23

5.1.3. Released Files

Table 5. RC76xx Approved Packages

File	Carrier	Modem Firmware	Config	Base Legato System	Comment
RC7620/RC7620-1 Approved					
RC76xx_Release8_GENERIC_GCF_7620.exe	Generic (GCF)	SWI9X07H_00.08.07.00	001.081_000	20.03.0.m1.ThreadX.rc41	GCF approved
RC76xx_Release8_SIERRA_R2C_7620.exe	Sierra	SWI9X07H_00.08.07.00	000.057_000	20.03.0.m1.ThreadX.rc41	R2C approved
RC7630/RC7630-1 Approved					
RC76xx_Release8_GENERIC_GCF_7630.exe	Generic (GCF)	SWI9X07H_00.07.01.01	001.076_000	20.03.0.m1.ThreadX.rc41	GCF approved
RC76xx_Release8_KDDI_DI_7630.exe	KDDI	SWI9X07H_00.08.07.00	001.022_000	20.03.0.m1.ThreadX.rc41	KDDI approved
RC76xx_Release8_DOCOMO_7630.exe	DOCOMO	SWI9X07H_00.07.01.01	001.015_000	20.03.0.m1.ThreadX.rc41	DOCOMO approved

Function	Files
Firmware components	9999999_9909667_SWI9X07H_00.07.01.01_00_GENERIC_001.076_000.spk (RC7630 GCF) 9999999_9910146_SWI9X07H_00.07.01.01_00_DOCOMO_001.015_000.spk (RC7630 DoCoMo) 9999999_9910147_SWI9X07H_00.08.07.00_00_KDDI_001.022_000.spk (RC7630 KDDI) 9999999_9909667_SWI9X07H_00.08.07.00_00_GENERIC_001.081_000.spk (RC7620 GCF) 9999999_9909717_SWI9X07H_00.08.07.00_00_SIERRA_000.057_000.spk (RC7620 R2C) appl_20.03.0.m1.ThreadX.rc41.cwe
These files will be available for download at https://source.sierrawireless.com/	

5.1.4. Software Changes Description

The following changes were implemented in Release 8 since Release 7.1.

Table 6. Software Changes Description for Generic

ID	Description	Affected Domain
QTI9X07TX-3054	Add QTI stack r00089.1 Post-CS 0.0.089.1 to tx-1.0-swi	
QTI9X07TX-3118	Add QTI stack r00089.1.353159.1 - Post-r00089.1.353159.1 to tx-1.0-swi	
QTI9X07TX-3127	Increment SVN on RC76 main branch to 17	
QTI9X07TX-3058	[RC76xx] [PROTOCOL] [KFTPSND] Sometimes module is frozen when sending FTP data by KFTPSND command	
QTI9X07TX-3087	[PROTOCOL] [TLS1.2] [TCP] The TCP over TLS connection cannot be established without loading any certificates or keys to the module	
QTI9X07TX-3170	Add QTI stack r00089.1.353159.1.363371.1	
QTI9X07TX-2585	[AT] ATKTCHFIX	
QTI9X07TX-3278	GNSS fix 2D/3D status mismatch between NMEA log and AT	
QTI9X07TX-3262	Add Post-CS 0.0.089.1.363371.1.378695.1 to tx-1.0-swi	
QTI9X07TX-3286	[UART] After receiving some URC, UART port will freeze.	
QTI9X07TX-3309	[UART] IPR cannot set 921600	

Table 7. Software Changes Description for DOCOMO

ID	Description	Affected Domain
QTI9X07TX-1549	Enable SMS over IMS feature	

Table 8. Software Changes Description for KDDI

ID	Description	Affected Domain
QTI9X07TX-1549	Enable SMS over IMS feature	
QTI9X07TX-3206	[KDDI][RC7630] Change AT!GPSSUPLURL to a level 3 at command	
QTI9X07TX-3271	[KDDI][RC7630] Outputs NMEA report while !GPSNMEACONFIG=0	

Table 9. Software Changes Description for KT

ID	Description	Affected Domain
QT19X07TX-1549	Enable SMS over IMS feature	

Table 10. Software Changes Description for LGU

ID	Description	Affected Domain
QT19X07TX-2682	[oneM2M] Implement command \$OM_R_INS_REQ	
QT19X07TX-2683	[oneM2M] Implement command \$OM_D_INS_REQ	
QT19X07TX-2688	[oneM2M] \$OM_AUTH_REQ Send authentication message	
QT19X07TX-2693	[oneM2M] Implement command \$OM_DEV_FWUP_REQ and \$OM_MODEM_FWUP_REQ	
QT19X07TX-2974	[LGU] [LGTDGSCR] LGTDGSCR response is in wrong format	
QT19X07TX-3020	[LGU] [AT\$LGTDGSCR] The band value is incorrect	
QT19X07TX-3079	[oneM2M] Implement task/message queue and atcmd framework in MPSS	
QT19X07TX-3094	[oneM2M] Implement timer management related APIs	
QT19X07TX-1549	Enable SMS over IMS feature	
QT19X07TX-2694	[oneM2M] \$OM_DEV_FWUP_START Request New FW Data	
QT19X07TX-2695	[oneM2M] Implement \$OM_DEV_FWUP_FINISH and \$OM_MODEM_FWUP_FINISH	
QT19X07TX-2995	[LGU] [LGTRSEND] Wrong data size when sending LGTRSEND from the second time	
QT19X07TX-3088	[LGU] AT\$LGTRASSON fail although module registered to Network	
QT19X07TX-3108	[LGU] [LGTRASSON] Failed to restart TCP connection to RASS server after each previous success	
QT19X07TX-2888	[LGU] [LGTRSEND] Wrong response is returned when checking LGTRSEND test command	
QT19X07TX-2965	[LGU] [LGTRQOS] Wrong format response when querying AT\$LGTRQOS command	
QT19X07TX-3088	[LGU] AT\$LGTRASSON fails although module is registered to Network	
QT19X07TX-3079	[oneM2M] Implement task/message queue and atcmd framework in MPSS	
QT19X07TX-3094	[oneM2M] Implement timer management related APIs	
QT19X07TX-2970	[oneM2M] Implement a PDP session	
QT19X07TX-3126	[oneM2M] Implement socket connection APIs in MPSS	
QT19X07TX-3165	[oneM2M] Implement config read and write APIs in MPSS	
QT19X07TX-3157	[oneM2M] Implement XML parser APIs in MPSS	
QT19X07TX-3177	[oneM2M] Implement APIs to read or write params in efs in MPSS	

ID	Description	Affected Domain
QTI9X07TX-2970	[oneM2M] Implement a PDP session	
QTI9X07TX-2888	[LGU] [LGTRSEND] Wrong response is returned when checking LGTRSEND test command	
QTI9X07TX-3088	[LGU] AT\$LGTRRASSON fails although module is registered to Network	
QTI9X07TX-3214	[oneM2M] Implement encrypted APIs within QTI platform	
QTI9X07TX-3223	[oneM2M] Verify LGU test server terminal authentication and resource creation	
QTI9X07TX-3226	[oneM2M] Implement atcmds \$LGTMPPF in MPSS	
QTI9X07TX-3235	[oneM2M] Implement atcmd \$OM_B_CSE_REQ	
QTI9X07TX-3247	[oneM2M] Implement atcmd \$OM_RESET_FINISH	
QTI9X07TX-3236	[LGU][LGTRMODFWI] The Modem Firmware Download function works incorrectly with valid FTP server.	

6.

SWI9X07H Release 7.1

SWI9X07H Release 7.1 is a major release.

6.1. Software Release Description

6.1.1. Release Identification

Table 11. Firmware Release Information

Component	Revision
Modem Firmware	SWI9X07H_00.07.01.01 941d82 jenkins 2021/01/22 10:39:56
Legato Application Framework	20.03.0.m1.ThreadX.rc34
Binary Size	29.2 MB (compressed one-click exe)
IMEI SV	16
Qualcomm baseline	MDM9607.TX.1.0-00082-STD.PROD-2.337450.1.368669.1
Qualcomm SBA	MDM9607.TX.1.0 Post-CS 0.0.082.2.337450.1.368669.1
Supported H/W	RC7630, RC7630-1

6.1.2. Software Tools Version

Note: Download the following tools from <https://source.sierrawireless.com/>

Table 12. Software Tools Version

Software Tools Name	Version
Windows Driver Package	B4836
Linux Drivers	S2.39N2.60
Linux SDK	SLQS04.00.23

6.1.3. Released Files

Table 13. RC76xx Approved Packages

File	Carrier	Modem Firmware	Config	Base Legato System	Comment
RC7630/RC7630-1 Approved					
RC76xx_Release7.1_GENERIC_GCF_7630.exe	Generic (GCF)	SWI9X07H_00.07.01.01	001.076_000	20.03.0.m1.ThreadX.rc34	GCF approved
RC76xx_Release7.1_KDDI_7630.exe	KDDI	SWI9X07H_00.07.01.01	001.017_000	20.03.0.m1.ThreadX.rc34	KDDI approved
RC76xx_Release7.1_DOCOMO_7630.exe	DOCOMO	SWI9X07H_00.07.01.01	001.015_000	20.03.0.m1.ThreadX.rc34	DOCOMO approved

Function	Files
Firmware components	9999999_9909667_SWI9X07H_00.07.01.01_00_GENERIC_001.076_000.spk (RC7630 GCF) 9999999_9910147_SWI9X07H_00.07.01.01_00_KDDI_001.017_000.spk (RC7630 KDDI) 9999999_9910146_SWI9X07H_00.07.01.01_00_DOCOMO_001.015_000.spk (RC7630 DOCOMO) appl_20.03.0.m1.ThreadX.rc34.cwe
These files will be available for download at https://source.sierrawireless.com/	

6.1.4. Software Changes Description

The following changes were implemented in Release 7.1.

Table 14. Software Changes Description for Generic

ID	Description	Affected Domain
QTI9X07TX-3202	Add Post-CS 0.0.082.2.337450.1.368669.1 to tx-1.0-swi_00.07.01.00	
QTI9X07TX-2785	[ATD] Module cannot make data connection with KDDI network	
QTI9X07TX-2929	+KPATTERN does not accept 8-bit characters	
QTI9X07TX-2875	Add QTI stack r00075.1.318295.1 to tx-1.0-swi	
QTI9X07TX-1582	[AT] AT\$LGTRQOS Command	
QTI9X07TX-1590	[AT] AT\$LGTRTPS Command	
QTI9X07TX-1591	[AT] AT\$LGTRTPR Command	
QTI9X07TX-2287	[ATIP] AT+KFTPCFG	
QTI9X07TX-2288	[ATIP] AT+KFTPCNX	
QTI9X07TX-2289	[ATIP] AT+KFTPRCV	
QTI9X07TX-2290	[ATIP] AT+KFTPSND	
QTI9X07TX-2291	[ATIP] AT+KFTPDEL	
QTI9X07TX-2292	[ATIP] +KFTP_IND	
QTI9X07TX-2293	[ATIP] AT+KFTPCLOSE	
QTI9X07TX-2294	[ATIP] AT+KFTPCFGDEL	
QTI9X07TX-2295	[ATIP] AT+KFTPLS	
QTI9X07TX-2791	[AT] AT\$LGTRMODFW Command	
QTI9X07TX-2792	[AT] AT\$LGTRMODFWI Command	
QTI9X07TX-2967	Add QTI stack r00082.2 Post-CS 0.0.082.2 to tx-1.0-swi	
QTI9X07TX-2570	[AT] AT+DBGCFG	
QTI9X07TX-2992	Add QTI stack r00082.2.337450.1 - Post-r00082.2.337450.1 to tx-1.0-swi	

Table 15. Software Changes Description for DOCOMO, KDDI, and KT

ID	Description	Affected Domain
QT19X07TX-2629	VoLTE Support for DOCOMO, KDDI, LGU+, and KT	

Table 16. Software Changes for LGU

ID	Description	Affected Domain
QT19X07TX-2669	[oneM2M] Develop XML parser and param storage related APIs	
QT19X07TX-2924	[oneM2M] OM package support QXDM logging by category	
QT19X07TX-2905	[oneM2m] Folder name change to OM	
QT19X07TX-2629	VoLTE Support for DOCOMO, KDDI, LGU+, and KT	
QT19X07TX-2673	[OneM2M] Implement \$OM_C_SUB_REQ (Create Subscription)	
QT19X07TX-2674	[oneM2M] Implement command \$OM_C_CON_REQ	
QT19X07TX-2676	[OneM2M] Implement \$OM_D_SUB_REQ (Delete Subscription)	
QT19X07TX-2677	[oneM2M] Implement command \$OM_D_CON_REQ	
QT19X07TX-2944	[oneM2M] Implement a message queue for asynchronized command processing	
QT19X07TX-2968	[oneM2M] Implement config parameter read in initialize prod	
QT19X07TX-2679	[OneM2M] Implement \$OM_C_ACP_REQ (Set Access Policy)	
QT19X07TX-2684	[OneM2M] Implement \$OM_R_ACP_REQ (Read Access Policy)	
QT19X07TX-2686	[OneM2M] Implement \$OM_U_ACP_REQ (Update Access Policy)	
QT19X07TX-2687	[OneM2M] Implement \$OM_D_ACP_REQ (Delete Access Policy)	
QT19X07TX-2691	[oneM2M] \$OM_C_CSE_REQ Create Remote CSE registration	
QT19X07TX-2692	[oneM2M] \$OM_D_CSE_REQ Delete Remote CSE registration	
QT19X07TX-2708	[oneM2M] Implement command \$OM_C_INS_REQ	
QT19X07TX-2968	[oneM2M] Implement oneM2M config paramant read in initialize	
QT19X07TX-2986	[oneM2M] \$OM_R_CSE_REQ Retrieve Remote CSE registration	



SWI9X07H Release 6.3

SWI9X07H Release 6.3 is a major release.

7.1. Software Release Description

7.1.1. Release Identification

Table 17. Firmware Release Information

Component	Revision
Modem Firmware	SWI9X07H_00.03.03.00 2bb7a4 jenkins 2020/04/15 07:57:29
Legato Application Framework	20.03.0.m4.ThreadX.rc3
Binary Size	29.1 MB (compressed one-click exe)
IMEI SV	14
Qualcomm baseline	MDM9607.TX.1.0-00064-STD.PROD-1.275918.1
Qualcomm SBA	MDM9607.TX.1.0 Post-CS 0.0.064.1.275918.1
Supported H/W	RC7611, RC7611-1

7.1.2. Software Tools Version

Note: Download the following tools from <https://source.sierrawireless.com/>

Table 18. Software Tools Version

Software Tools Name	Version
Windows Driver Package	B4836
Linux Drivers	S2.39N2.60
Linux SDK	SLQS04.00.23

7.1.3. Released Files

Table 19. RC76xx Approved Packages

File	Carrier	Modem Firmware	Config	Base Legato System	Comment
RC7611/RC7611-1 Approved					
RC76xx_Release6.3_SIERRA_R2C_7611.exe	Sierra	SWI9X07H_00.03.03.00	000.027_000	20.03.0.m4.ThreadX.rc3	R2C approved

Function	Files
Firmware components	9999999_9909717_SWI9X07H_00.03.03.00_00_SIERRA_000.027_000.spk (RC7611 R2C) appl_20.03.0.m4.ThreadX.rc3.cwe
These files will be available for download at https://source.sierrawireless.com/	

7.1.4. Software Changes Description

The following changes were implemented in Release 6.3 since Release 6.2.

Table 20. Software Changes Description for Legato

ID	Description	Affected Domain
QT19X07TX-3225	Merge patch for Release6.3	

8.

SWI9X07H Release 7

SWI9X07H Release 7 is an interim release.

This release will not be available to the public in <https://source.sierrawireless.com>, AirVantage, and Leaf. Please contact Sales for this release.

8.1. Software Release Description

8.1.1. Release Identification

Table 21. Firmware Release Information

Component	Revision
Modem Firmware	SWI9X07H_00.06.05.01 59d234 jenkins 2020/10/05 01:55:15
Legato Application Framework	20.03.0.m5.ThreadX.rc1
Binary Size	28.5 MB (compressed one-click exe)
IMEI SV	16
Qualcomm baseline	MDM9607.TX.1.0-00075-STD.PROD-1
Qualcomm SBA	MDM9607.TX.1.0 Post-CS 0.0.075.1
Supported H/W	RC7611, RC7611-1, RC7620, RC7620-1, RC7630, RC7630-1

8.1.2. Software Tools Version

Note: Download the following tools from <https://source.sierrawireless.com/>

Table 22. Software Tools Version

Software Tools Name	Version
Windows Driver Package	B4956
Linux Drivers	S2.42N2.63
Linux SDK	SLQS04.00.26

8.1.3. Released Files

Table 23. RC76xx Approved Packages

File	Carrier	Modem Firmware	Config	Base Legato System	Comment
RC7611/RC7611-1 Approved					
RC76xx_Release 7_ATT_7611.exe	ATT	SWI9X07H_00.03.03.00	001.040_000	20.03.0.m5.ThreadX.rc1	ATT approved
RC76xx_Release 7_GENERIC_GC F_7611.exe	Generic (PTCRB / GCF)	SWI9X07H_00.03.03.00	001.046_000	20.03.0.m5.ThreadX.rc1	PTCRB / GCF approved
RC76xx_Release 7_SIERRA_R2C_7611.exe	Sierra	SWI9X07H_00.03.03.00	000.027_000	20.03.0.m5.ThreadX.rc1	R2C approved
RC76xx_Release 7_VERIZON_7611.exe	Verizon	SWI9X07H_00.03.03.01	001.040_000	20.03.0.m5.ThreadX.rc1	Verizon approved
RC76xx_Release 7_TMO_7611.exe	TMO	SWI9X07H_00.03.03.00	001.024_000	20.03.0.m5.ThreadX.rc1	TMO approved
RC7620/RC7620-1 Approved					
RC76xx_Release 7_GENERIC_GC F_7620.exe	Generic (GCF)	SWI9X07H_00.03.03.00	001.043_000	20.03.0.m5.ThreadX.rc1	GCF approved
RC76xx_Release 7_SIERRA_R2C_7620.exe	Sierra	SWI9X07H_00.03.03.00	000.027_000	20.03.0.m5.ThreadX.rc1	R2C approved
RC7630/RC7630-1 Approved					
RC76xx_Release 7_GENERIC_GC F_7630.exe	Generic (GCF)	SWI9X07H_00.04.05.00	001.061_000	20.03.0.m5.ThreadX.rc1	GCF approved
RC7630/RC7630-1 Approval pending package					
RC76xx_Release 7_SIERRA_test.exe	Sierra	SWI9X07H_00.06.05.01	000.046_000	20.03.0.m5.ThreadX.rc1	test
RC76xx_Release 7_DOCOMO_test.exe	DOCOMO	SWI9X07H_00.06.05.01	001.008_000	20.03.0.m5.ThreadX.rc1	test
RC76xx_Release 7_KDDI_test.exe	KDDI	SWI9X07H_00.06.05.01	001.010_000	20.03.0.m5.ThreadX.rc1	test

Function	Files
Firmware components	9999999_9909667_SWI9X07H_00.03.03.00_00_GENERIC_001.043_000.spk (RC7620 GCF) 9999999_9909667_SWI9X07H_00.03.03.00_00_GENERIC_001.046_000.spk (RC7611 PTCRB / GCF) 9999999_9909693_SWI9X07H_00.03.03.00_00_ATT_001.040_000.spk (RC7611 ATT) 9999999_9909694_SWI9X07H_00.03.03.01_00_VERIZON_001.040_000.spk (RC7611 Verizon) 9999999_9909696_SWI9X07H_00.03.03.00_00_TMO_001.024_000.spk (RC7611 TMO) 9999999_9909717_SWI9X07H_00.03.03.00_00_SIERRA_000.027_000.spk (RC7611/RC7620 R2C) 9999999_9909667_SWI9X07H_00.04.05.00_00_GENERIC_001.061_000.spk (RC7630 GCF) appl_20.03.0.m5.ThreadX.rc1.cwe
These files will be available for download at https://source.sierrawireless.com/	

8.1.4. Software Changes Description

The following are changes in Release 7 since Release 6.2.

Table 24. Software Changes Description for Generic

ID	Description	Affected Domain
QT19X07TX-2767	Add QTI stack r00069.1 - Post-CS 0.0.069.1 to tx-1.0-swi	
QT19X07TX-2787	Add QTI stack r00075.1 - Post-CS 0.0.075.1 to tx-1.0-swi	

Table 25. Software Changes Description for Verizon

ID	Description	Affected Domain
QT19X07TX-1909	[LwM2M] [DTLS] Duplicated requests and no buffering in re-handshake	
QT19X07TX-1910	[LwM2M] [DTLS] Resume transmission immediately after peer connection closes due to decrypt-error alert	
QT19X07TX-1930	[LwM2M] [DTLS] Re-handshake upon decryption error on received packet	
QT19X07TX-2928	Increment SVN on RC76 main branch to 16	

Table 26. Software Changes Description for Verizon

ID	Description	Affected Domain
QT19X07TX-2611	[R2C] Enabled NV 73764 in Sierra PRI	
QT19X07TX-2626	AT+KSIMSEL=30 to select Soft SIM	

Table 27. Software Changes Description for DOCOMO

ID	Description	Affected Domain
QT19X07TX-2646	Enable SMS over IMS feature - DOCOMO	
QT19X07TX-2648	VoLTE Support for DOCOMO	

Table 28. Software Changes Description for KDDI

ID	Description	Affected Domain
QT19X07TX-2647	Enable SMS over IMS feature - KDDI	
QT19X07TX-2649	VoLte Support for KDDI	



SWI9X07H Release 6.2

SWI9X07H Release 6.2 is a major release.

9.1. Software Release Description

9.1.1. Release Identification

Table 29. Firmware Release Information

Component	Revision
Modem Firmware	SWI9X07H_00.03.03.00 2bb7a4 jenkins 2020/04/15 07:57:29
Legato Application Framework	20.03.0.m4.ThreadX.rc2
Binary Size	28.4 MB (compressed one-click exe)
IMEI SV	14
Qualcomm baseline	MDM9607.TX.1.0 Post-CS 0.0.064.1
Qualcomm SBA	MDM9607.TX.1.0 Post-CS 0.0.064.1.275918.1
Supported H/W	RC7611, RC7611-1, RC7620, RC7620-1

9.1.2. Software Tools Version

Note: Download the following tools from <https://source.sierrawireless.com/>

Table 30. Software Tools Version

Software Tools Name	Version
Windows Driver Package	B4956
Linux Drivers	S2.36N2.60
Linux SDK	SLQS04.00.23

9.1.3. Released Files

Table 31. RC76xx Approved Packages

File	Carrier	Modem Firmware	Config	Base Legato System	Comment
RC7611/RC7611-1 Approved/Pending					
RC76xx_Release6.2_ATT_7611.exe	ATT	SWI9X07H_00.03.03.00	001.040_000	20.03.0.m4.ThreadX.rc2	ATT approved
RC76xx_Release6.2_GENERIC_GCF_7611.exe	Generic	SWI9X07H_00.03.03.00	001.046_000	20.03.0.m4.ThreadX.rc2	PTCRB / GCF approved
RC76xx_Release6.2_SIERRA_R2C_7611.exe	Sierra	SWI9X07H_00.03.03.00	000.027_000	20.03.0.m4.ThreadX.rc2	R2C approved
RC76xx_Release6.2_VERIZON_7611.exe	Verizon	SWI9X07H_00.03.03.01	001.040_000	20.03.0.m4.ThreadX.rc2	Verizon approved
RC76xx_Release6.2_TMO_7611.exe	TMO	SWI9X07H_00.03.03.00	001.024_000	20.03.0.m4.ThreadX.rc2	TMO approved
RC7620/RC7620-1 Approved/Pending					
RC76xx_Release6.2_GENERIC_GCF_7620.exe	Generic	SWI9X07H_00.03.03.00	001.043_000	20.03.0.m4.ThreadX.rc2	GCF approved
RC76xx_Release6.2_SIERRA_R2C_7620.exe	Sierra	SWI9X07H_00.03.03.00	000.027_000	20.03.0.m4.ThreadX.rc2	R2C approved

Function	Files
Firmware components	9999999_9909667_SWI9X07H_00.03.03.00_00_GENERIC_001.043_000.spk (RC7620 GCF) 9999999_9909667_SWI9X07H_00.03.03.00_00_GENERIC_001.046_000.spk (RC7611 PTCRB/GCF) 9999999_9909693_SWI9X07H_00.03.03.00_00_ATT_001.040_000.spk (RC7611 ATT) 9999999_9909694_SWI9X07H_00.03.03.01_00_VERIZON_001.040_000.spk (RC7611 Verizon) 9999999_9909696_SWI9X07H_00.03.03.00_00_TMO_001.024_000.spk (RC7611 TMO) 9999999_9909717_SWI9X07H_00.03.03.00_00_SIERRA_000.027_000.spk (RC7611/RC7620 R2C) appl_20.03.0.m4.ThreadX.rc2.cwe
These files will be available for download at https://source.sierrawireless.com/	

9.1.4. Software Changes Description

The following changes were implemented in Release 6.2 since Release 6.

Table 32. Software Changes Description for R2C

ID	Description	Impacted Domain
QT19X07TX-2355	RC7620 R6: if SELRAT 01 , Synchronize with AVMS Failed	

10. WI9X07H Release 6.1

SWI9X07H Release 6.1 is a major release.

10.1. Software Release Description

10.1.1. Release Identification

Table 33. Firmware Release Information

Component	Revision
Modem Firmware	SWI9X07H_00.03.03.01 707452 jenkins 2020/05/20 07:13:09
Legato Application Framework	20.03.0.m1.ThreadX.rc11
Binary Size	28.4 MB (compressed one-click exe)
IMEI SV	15
Qualcomm baseline	MDM9607.TX.1.0 Post-CS 0.0.064.1
Qualcomm SBA	MDM9607.TX.1.0 Post-CS 0.0.064.1.275918.1
Supported H/W	RC7611, RC7611-1, RC7620, RC7620-1

10.1.2. Software Tools Version

Note: Download the following tools from <https://source.sierrawireless.com/>

Table 34. Software Tools Version

Software Tools Name	Version
Windows Driver Package	B4956
Linux Drivers	S2.36N2.60
Linux SDK	SLQS04.00.23

10.1.3. Released Files

Table 35. RC76xx Approved/Pending Packages

File	Carrier	Modem Firmware	Config	Base Legato System	Comment
RC7611/RC7611-1 Approved/Pending					
RC76xx_Release6.1_VERIZON_7611.exe	Verizon	SWI9X07H_00.03.03.01	001.040_000	20.03.0.m1.ThreadX.rc11	Verizon
Test					
RC76xx_Release6.1_SIERRA_test.exe	Sierra	SWI9X07H_00.03.03.01	000.029_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6.1_VERIZON_test.exe	Verizon	SWI9X07H_00.03.03.01	001.040_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6.1_ATT_test.exe	ATT	SWI9X07H_00.03.03.01	001.043_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6.1_SPRINT_test	SPRINT	SWI9X07H_00.03.03.01	001.026_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6.1_TMO_test.exe	TMO	SWI9X07H_00.03.03.01	001.026_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6.1_GENERIC_test.exe	Generic	SWI9X07H_00.03.03.01	001.050_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6.1_VODAFONE_test.exe	VODAFONE	SWI9X07H_00.03.03.01	000.024_000	20.03.0.m1.ThreadX.rc11	Test

Function	Files
Firmware components	9999999_9909694_SWI9X07H_00.03.03.01_00_VERIZON_001.040_000.spk
These files will be available for download at https://source.sierrawireless.com/	

10.2. Software Changes Description

The following changes were implemented in Release 6.1 since Release 6.

Table 36. Software Changes Description for Verizon

ID	Description	Impacted Domain
QT19X07TX-1789	Sync WP76XX modem_proc by cherry-pick	
QT19X07TX-1930	[LWM2M][DTLS] Rehandshake upon decryption error on received packet	
QT19X07TX-1933	Merge prod-wp76xx(cbf23012 to ac21d2a1)	
QT19X07TX-1940	Increment SVN on RC76 main branch to 15	

11.

SWI9X07H Release 6

SWI9X07H Release 6 is a major release.

11.1. Software Release Description

11.1.1. Release Identification

Table 37. Firmware Release Information

Component	Revision
Modem Firmware	SWI9X07H_00.03.03.00 2bb7a4 jenkins 2020/04/15 07:57:29
Legato Application Framework	20.03.0.m1.ThreadX.rc11
Binary Size	29.1 MB (compressed one-click exe)
IMEI SV	14
Qualcomm baseline	MDM9607.TX.1.0 Post-CS 0.0.064.1
Qualcomm SBA	MDM9607.TX.1.0 Post-CS 0.0.064.1.275918.1
Supported H/W	RC7611, RC7611-1, RC7620, RC7620-1

11.1.2. Software Tools Version

Note: Download the following tools from <https://source.sierrawireless.com/>

Table 38. Software Tools Version

Software Tools Name	Version
Windows Driver Package	B4956
Linux Drivers	S2.36N2.60
Linux SDK	SLQS04.00.23

11.1.3. Released Files

Table 39. RC76xx Approved/Pending Packages

File	Carrier	Modem Firmware	Config	Base Legato System	Comment
RC7611/RC7611-1 Approved/Pending					
RC76xx_Release6_GENERIC_GCF_7611.exe	GENERIC (GCF)	SWI9X07H_00.03.03.00	001.046_000	20.03.0.m1.ThreadX.rc11	GCF approved
RC76xx_Release6_SIERRA_R2C_7611.exe	Sierra	SWI9X07H_00.03.03.00	000.027_000	20.03.0.m1.ThreadX.rc11	R2C
Test					
RC76xx_Release6_SIERRA_test.exe	Sierra	SWI9X07H_00.03.03.00	000.027_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6_VERIZON_test.exe	Verizon	SWI9X07H_00.03.03.00	001.038_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6_ATT_test.exe	ATT	SWI9X07H_00.03.03.00	001.040_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6_SPRINT_test	SPRINT	SWI9X07H_00.03.03.00	001.023_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6_TMO_test.exe	TMO	SWI9X07H_00.03.03.00	001.024_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6_GENERIC_test.exe	Generic	SWI9X07H_00.03.03.00	001.046_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6_VODAFONE_test.exe	VODAFONE	SWI9X07H_00.03.03.00	000.022_000	20.03.0.m1.ThreadX.rc11	Test

Function	Files
Firmware components	9999999_9909667_SWI9X07H_00.03.03.00_00_GENERIC_001.046_000.spk 9999999_9909717_SWI9X07H_00.03.03.00_00_SIERRA_000.027_000.spk
These files will be available for download at https://source.sierrawireless.com/	

11.2. Software Changes Description

The following changes were implemented in Release 6 since Release 5.

Table 40. Software Changes Description for R2C

ID	Description	Impacted Domain
QT19X07TX-1903	Using oneClick file , Module freezes on WDSS command until next manual Power OFF/ON	
QT19X07TX-1905	RC7620 R5B1 After FOTA the module doesn't connect server Airvantage	
QT19X07TX-1915	[AVMS][FOTA] AVMS command causes module freezes after FOTA and job status is failed	
QT19X07TX-1921	[AVMS][UPD] The module cannot start downloading package from the AVMS server automatically after initiating a connection for FOTA update job	

12. SWI9X07H Release 5

SWI9X07H Release 5 is a major release.

This release will not be available to the public in <https://source.sierrawireless.com>, AirVantage, and Leaf. Please contact Sales for this release.

12.1. Software Release Description

12.1.1. Release Identification

Table 41. Firmware Release Information

Component	Revision
Modem Firmware	SWI9X07H_00.03.03.00 2bb7a4 jenkins 2020/04/15 07:57:29
Legato Application Framework	20.03.0.m1.ThreadX.rc7
Binary Size	29.1 MB (compressed one-click exe)
IMEI SV	14
Qualcomm baseline	MDM9607.TX.1.0 Post-CS 0.0.064.1
Qualcomm SBA	MDM9607.TX.1.0 Post-CS 0.0.064.1.275918.1
Supported H/W	RC7611, RC7611-1, RC7620, RC7620-1

12.1.2. Software Tools Version

Note: Download the following tools from <https://source.sierrawireless.com/>

Table 42. Software Tools Version

Software Tools Name	Version
Windows Driver Package	B4956
Linux Drivers	S2.36N2.60
Linux SDK	SLQS04.00.23

12.1.3. Released Files

Table 43. RC76xx Approved/Pending Packages

File	Carrier	Modem Firmware	Config	Base Legato System	Comment
RC7611/RC7611-1 Approved/Pending					
RC76xx_Release5_ATT_7611.exe	ATT	SWI9X07H_00.03.03.00	001.040_000	20.03.0.m1.ThreadX.rc7	ATT approved
Test					
RC76xx_Release5_SIERRA_test.exe	Sierra	SWI9X07H_00.03.03.00	001.027_000	20.03.0.m1.ThreadX.rc7	Test
RC76xx_Release5_VERIZON_test.exe	Verizon	SWI9X07H_00.03.03.00	001.038_000	20.03.0.m1.ThreadX.rc7	Test
RC76xx_Release5_ATT_test.exe	ATT	SWI9X07H_00.03.03.00	001.040_000	20.03.0.m1.ThreadX.rc7	Test
RC76xx_Release5_SPRINT_test	SPRINT	SWI9X07H_00.03.03.00	001.023_000	20.03.0.m1.ThreadX.rc7	Test
RC76xx_Release5_TMO_test.exe	TMO	SWI9X07H_00.03.03.00	001.024_000	20.03.0.m1.ThreadX.rc7	Test
RC76xx_Release5_GENERIC_test.exe	Generic	SWI9X07H_00.03.03.00	001.046_000	20.03.0.m1.ThreadX.rc7	Test
RC76xx_Release5_VODAFONE_test.exe	VODAFONE	SWI9X07H_00.03.03.00	000.022_000	20.03.0.m1.ThreadX.rc7	Test

Function	Files
Firmware components	9999999_9909693_SWI9X07H_00.03.03.00_00_ATT_001.040_000.spk
These files will be available for download at https://source.sierrawireless.com/	

12.2. Software Changes Description

The following changes were implemented in Release 6 since Release 5.

Table 44. Software Changes Description for R2C

ID	Description	Impacted Domain
QTI9X07TX-1279	[AVMS] The value of some resources of the location object are not synchronized on AVMS server.	
QTI9X07TX-1820	[AVMS] RC7620 FOTA and Power Off during Download failed and no more FOTA can be done.	
QTI9X07TX-1280	[AVMS] The value of SMS Tx Counter and SMS Rx Counter are not synchronized on AVMS server.	
QTI9X07TX-1128	[AVMS][WDSI]The module re-initiates a bootstrap session after rebooting the module.	
QTI9X07TX-1373	[RC7620][AvMS] Module can't register the server right away.	

Table 45. Software Changes Description for AT&T

ID	Description	Impacted Domain
QTI9X07TX-1702	[RC7611][AT&T][AVL_DDR][10776 v19.3][LTE-BTR-1-8224][IMS as its usage setting is not expected]	
QTI9X07TX-1732	[RC7611][AT&T][AVL_DDR][10776 v19.3][LTE-BTR-1-8266][Data browsing did not work]	
QTI9X07TX-1734	[RC7611][AT&T][AVL_DDR][10776 v19.3][Defect#878220][LTE-BTR-1-7843][UE doesn't register within 8 mins]	
QTI9X07TX-1740	[RC7611][AT&T][AVL_DDR][10776 v19.3][Defect#878218][LTE-BTR-1-7907][Unable to Verify that the UE finds the performs Attach procedure on any cell except E-Cell-A]	
QTI9X07TX-1741	[RC7611][AT&T][AVL_DDR][10776 v19.3][Defect#878219][LTE-BTR-1-7930][no PING Replies have been received as Limit is 5 seconds]	
QTI9X07TX-1807	[RC7611][AT&T][AVL_DDR][10776 v19.3][Defect#878283][LTE-BTR-1529][UE capability is mismatch]	
QTI9X07TX-1822	[RC7611][AT&T][Defect#389708][10776 Pre-Lab Test Results - APTN test review – DDA LE-4. (LE-4 CR DVM)]	

13. SWI9X07H Release 4

SWI9X07H Release 4 is a major release.

This release will not be available to the public in <https://source.sierrawireless.com>, AirVantage, and Leaf. Please contact Sales for this release.

13.1. Software Release Description

13.1.1. Release Identification

Firmware Release Information

Component	Version
Modem Firmware	SWI9X07H_00.03.03.00 2bb7a4 jenkins 2020/04/15 07:57:29
Legato Application Framework	20.03.0.m1.ThreadX.rc6
Binary Size	29.1 MB (compressed one-click exe)
IMEI SV	14
Qualcomm Stack Version	Post-CS 0.0.064.1
Supported H/W	RC7611, RC7611-1, RC7620, RC7620-1

13.1.2. Software Tools Version

Download the following tools from <https://source.sierrawireless.com/>

Software Tools Version

Software Tools Name	Version
Windows Driver Package	B4956
Linux Drivers	S2.36N2.60
Linux SDK	SLQS04.00.23

13.1.3. Released Files

Table 46. RC76xx Approved/Pending Packages

File	Carrier	Modem Firmware	Config	Base Legato System	Comment
RC7611/RC7611-1 Approved/Pending					
RC76xx_Release4_GENERIC_GCF_7620.exe	GENERIC (GCF)	SWI9X07H_00.03.03.00	001.043_000	20.03.0.m1.ThreadX.rc6	GCF approved
Test					
RC76xx_Release4_SIERRA_test.exe	Sierra	SWI9X07H_00.03.03.00	001.024_000	20.03.0.m1.ThreadX.rc6	Test
RC76xx_Release4_VERIZON_test.exe	Verizon	SWI9X07H_00.03.03.00	001.035_000	20.03.0.m1.ThreadX.rc6	Test
RC76xx_Release4_ATT_test.exe	ATT	SWI9X07H_00.03.03.00	001.037_000	20.03.0.m1.ThreadX.rc6	Test
RC76xx_Release4_SPRINT_test	SPRINT	SWI9X07H_00.03.03.00	001.021_000	20.03.0.m1.ThreadX.rc6	Test
RC76xx_Release4_TMO_test.exe	TMO	SWI9X07H_00.03.03.00	001.022_000	20.03.0.m1.ThreadX.rc6	Test
RC76xx_Release4_GENERIC_test.exe	Generic	SWI9X07H_00.03.03.00	001.043_000	20.03.0.m1.ThreadX.rc6	Test
RC76xx_Release4_VODAFONE_test.exe	VODAFONE	SWI9X07H_00.03.03.00	000.019_000	20.03.0.m1.ThreadX.rc6	Test

Function	Files
Firmware components	9999999_9909667_SWI9X07H_00.03.03.00_00_GENERIC_001.043_000.spk
These files will be available for download at https://source.sierrawireless.com/	

13.2. Software Changes Description

The following changes were implemented in Release 6 since Release 5.

Table 47. Software Changes Description for R2C

ID	Description	Impacted Domain
QTI9X07TX-1439	AVMS claimed not implemented after FOTA succeed	
QTI9X07TX-1469	AvMS related AT command will responds "NOT IMPLEMENTED" after upgrade from v2.08 to v2.11	

Table 48. Software Changes Description for Verizon

ID	Description	Impacted Domain
[QTI9X07-4228]	[LWM2M] Add !DM command documentation with md files	
[QTI9X07-4364]	LwM2M AT&T Initial skeleton and device tree support	
[QTI9X07-4447]	LwM2M Move BootstrapConfigurationSetDefault to custom	
[QTI9X07-4449]	LwM2M - Move paramStorage enums to custom	
[QTI9X07-4455]	LwM2M Fix typo ApnConnetion as ApnConnection in various locations	
[QTI9X07-4472]	LwM2M bootstrap inactive control when multiple bootstrap instances are defined	
[QTI9X07-4472]	LwM2M bootstrap inactive control when multiple bootstrap instances are defined	
[QTI9X07TX-1488]	[VZW][LWM2M][Diagnostic] Failed r/w (4/0/30000/1) & (4/0/30000/2)	
[QTI9X07TX-1659]	[LwM2M] Update SWI API lwm2m_log_uri() argument uriP with const	

13.3. Restrictions/Known Issues

This section presents restrictions or known issues that must be considered regarding this release.

ID	Description (What/When)
[QTI9X07TX-1171]	[AVMS] FOTA download progress is very slow

14.

SWI9X07H Release 2 BP 8

SWI9X07H Release 2 BP 8 is a minor release from Release 2.

14.1. Software Release Description

14.1.1. Release Identification

Firmware Release Information

Component	Version
Modem Firmware	SWI9X07H_00.02.18.00 1ce0ac jenkins 2020/03/11 03:56:19
Legato Application Framework	20.02.0.ThreadX.rc3
Binary Size	28.3 MB (compressed one-click exe)
IMEI SV	10
Qualcomm Stack Version	Post-CS 0.0.061.1.259087.1
Supported H/W	RC7611, RC7611-1, RC7620, RC7620-1

14.1.2. Software Tools Version

Download the following tools from <https://source.sierrawireless.com/>

Software Tools Version

Software Tools Name	Version
Windows Driver Package	B4956
Linux Drivers	S2.36N2.60
Linux SDK	SLQS04.00.23

14.1.3. Released Files

Table 49. RC76xx Approved/Pending Packages

File	Carrier	Modem Firmware	Config	Base Legato System	Comment
RC76xx_Release2_SWI9X07H_00.02.18.0_0_ATT_test.exe	ATT	SWI9X07H_00.02.18.00	001.030_000	20.02.0.ThreadX.rc3	
RC76xx_Release2_SWI9X07H_00.02.18.0_0_VERIZON_test.exe	Verizon	SWI9X07H_00.02.18.00	001.027_000	20.02.0.ThreadX.rc3	
RC76xx_Release2_SWI9X07H_00.02.18.0_0_GENERIC_test.exe	Generic	SWI9X07H_00.02.18.00	001.035_000	20.02.0.ThreadX.rc3	

Function	Files
Firmware components	9999999_9909694_SWI9X07H_00.02.18.00_00_VERIZON_001.027_000.spk 9999999_9909693_SWI9X07H_00.02.18.00_00_ATT_001.030_000.spk 9999999_9909667_SWI9X07H_00.02.18.00_00_GENERIC_001.035_000.spk
These files will be available for download at https://source.sierrawireless.com/	

14.2. Software Changes Description

The following are changes in Release 2 BP8 since Release 2.

Table 50. Software Changes Description

ID	Description	Impacted Domain
QTI9X07TX-1115	Update TS.25 to 2020.Jan.06	
QTI9X07TX-1201	AT!DMREAD does not return any data	
QTI9X07TX-1264	The module will crash when write 5/0/1 package URL on module	
QTI9X07TX-1246	AT!DMREAD="3/0/19" returns empty	
QTI9X07TX-1472	[LWM2M] Fail to register to Verizon Repo server when MSISDN not ready	