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Customer Release Notes

EM8695

Revision History

Rev#	Date	Updates
1	2024/11/15	SWIX35C_00.01.04.00
2	2024/12/06	SWIX35C_00.01.06.00
3	2025/01/10	SWIX35C_00.01.10.00
4	2025/04/18	SWIX35C_00.01.12.00
5	2025/05/26	SWIX35C_00.01.14.00
6	2025/06/30	SWIX35C_00.01.15.00 (R1_BP1)
7	2025/07/30	SWIX35C_00.01.16.00 (R1_BP2)
8	2025/08/29	SWIX35C_01.01.01.00 (R1_BP3)
9	2025/10/07	SWIX35C_01.01.01.00 (Release 1.0)

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1 Introduction

1.1 Document Scope

This document describes the firmware releases for the EM8695 product.

Semtech highly recommends migrating to new releases when available to take advantage of any security and stability improvements.

1.2 Firmware Packages and Tools

Please contact your Semtech/Sierra Wireless representatives for module resources, including firmware packages, release notes, tools, and other product documentation

1.3 Document Audience

This Release Notes document may be distributed to select pre-release customers.

2 Compatibility

2.1 Hardware Compatibility

The latest firmware release is compatible with EM8695 PV/PP hardware.

Release 1.0 for EM8695 PV/PP sample upgrade version.

3 Firmware Release 1.0 SWIX35C_01.01.01.00

3.1 Firmware Release Description

3.1.1 Firmware Release Identification

Table 1. Firmware Release Identification – Release 1.0

Component	Details
Firmware Version	SWIX35C_01.01.01.00
Date of generation (UTC)	2025/08/29
IMEI SV	02
GSMA TS.25	2025.08.11
Chipset Vendor Stack Version	Kuno.LE.1.0-00430-NBOOT.NEFS.PROD-1
Supported HW	EM8695

3.1.2 Carrier Packages

Table 2. Carrier Packages – Release 1.0

Carrier	Firmware	Configuration	Comment
Approved			
Generic	SWIX35C_01.01.01.00	000.001_004	GCF/PTCRB Approved – Release 1.0
AT&T	SWIX35C_01.01.01.00	000.001_013	AT&T Approved – Release 1.0
TMO	SWIX35C_01.01.01.00	000.001_005	TMO Approved – Release 1.0
Test			
Verizon	SWIX35C_01.01.01.00	000.001_006	Release 1.0 for Carrier LAB test

3.1.3 Host Software Versions

The following tools were validated against this release.

Note: Semtech recommends upgrading to newer Host Software releases when available. Refer to applicable software release notes for any compatibility restrictions.

Table 3. Validated Host Software Tools

SW Tools Name	Version
Windows Driver	8695.0005.000 (for firmware update only)
MBPL	R44_0_25
FDTL (Firmware download tool Linux)	V4.3.1

3.1.4 Software Changes

Table 4. Software Changes – Release 1.0

ID	Description	Impacted Domains
KAKASHI-1373	[EM8695][AT&T][LTE-BTR-1-8256] - Re-IMSI: LTE Capable UE when on LTE	ATT

3.1.5 Known Issues

Note: This section reflects known issues in Release 1.0 as of the Date of Generation (UTC) indicated in the Release 1.0 Release Identification section above.

Table 5. Known Issues – Release 1.0

ID	Description	Impacted Domains
KAKASHI-1442	[EM8695][VZW][Dallas] Device crash during mobility testing	VzW
KAKASHI-1334	[EM8695]: APN does not persist after firmware upgrade/downgrade with SKU based ".sop" files	APN
KAKASHI-1354	AT!SELRAT does not actually set RAT preference	AT
CEI35-43	[EM8695][AT&T][LTE-N37-1-3712] - Device behavior when PDU Session Establishment Requests for multi-purpose DNN are ignored by network	ATT
KAKASHI-1401	EM8695 RedCap connection dropped and can't be reestablished after VCC power cycle	Customer issue

4 Firmware R1_BP3 SWIX35C_01.01.01.00

4.1 Firmware Release Description

4.1.1 Firmware Release Identification

Table 6. Firmware Release Identification – Release 1.0 BP3

Component	Details
Firmware Version	SWIX35C_01.01.01.00
Date of generation (UTC)	2025/08/29
IMEI SV	02
GSMA TS.25	2025.08.11
Chipset Vendor Stack Version	Kuno.LE.1.0-00430-NBOOT.NEFS.PROD-1
Supported HW	EM8695

4.1.2 Carrier Packages

Table 7. Carrier Packages – Release 1.0 BP3

Carrier	Firmware	Configuration	Comment
Approved			
Test			
Generic	SWIX35C_01.01.01.00	000.001_004	
Verizon	SWIX35C_01.01.01.00	000.001_006	
AT&T	SWIX35C_01.01.01.00	000.001_013	
TMO	SWIX35C_01.01.01.00	000.001_007	

4.1.3 Host Software Versions

The following tools were validated against this release.

Note: Semtech recommends upgrading to newer Host Software releases when available. Refer to applicable software release notes for any compatibility restrictions.

Table 8. Validated Host Software Tools

SW Tools Name	Version
Windows Driver	8695.0005.000 (for firmware update only)
MBPL	R44_0_25
FDTL (Firmware download tool Linux)	V4.3.1

4.1.4 Software Changes

Table 9. Software Changes – Release 1.0 BP3

ID	Description	Impacted Domains
CEI35-6	[EM86][Throughput benchmark][LA]Uplink Speed Cannot Increase During TCP Bi-Directional Throughput Test Under LTE (IPv4/IPv6) and NR (IPv4)	TPUT
CEI35-12	[EM86] Module remains in Low Power after switching from PersistentLowPower to Factory Test to Online and rebooting	AT
CEI35-17	[EM8695]EM8695 terminal profile	eSIM
CEI35-20	999999 firmware update(without OEMPRI) download to reset to default PROD setting	LWM2M
KAKASHI-819	[EM86][MBPL] Fail to set dataloopback with SDK QMI_WDS_SWI_SET_DATA_DATA_LOOPBACK	QMI
KAKASHI-1076	eSIM HW SKU, !UIMS eSIM slot when no profile, AT+CPIN? returns SIM not inserted	Syntax
KAKASHI-1103	The FW returned is incorrect when querying right after the upgrade finished	FW Upgrade
KAKASHI-1164	pack/unpak_nas_SlqsGetCqi returns error in 5G SA mode	QMI
KAKASHI-1326	Profile name not displayed	QMI
KAKASHI-1328	[EM8695][VZW][Motive][default URL] node /O/O/O always defaults to motive URL after upgrading module module with One click tool (.exe)	LWM2M
KAKASHI-1337	eSIM not detected with new batch of modules	eSIM
KAKASHI-1342	Discrepancy about band capability between AT!SDPREF? and QMI	AT
KAKASHI-1344	[EM8695][T-Mobile][TC-20266][n41 registration procedure failed]	TMO
KAKASHI-1352	[EM86] Flog long class entry contains an unexpected operation "flog clear and re-generate"	AT
KAKASHI-1359	[EM8695][AT&T][LTE-BTR-1-7697] - Determination of Data Roaming - AT&T SIM in non-UI devices	ATT
KAKASHI-1373	[EM8695][AT&T][LTE-BTR-1-8256] - Re-IMSI: LTE Capable UE when on LTE	ATT
KAKASHI-1377	[EM8695][AT&T][LTE-BTR-1-8270] - ACC change - Adding/Removing ACC12 - Home Network (FirstNet Data Only UE)	ATT

4.1.5 Known Issues

Note: This section reflects known issues in Release 1.0 BP3 as of the Date of Generation (UTC) indicated in the Release 1.0 BP3 Release Identification section above.

Table 10. Known Issues – Release 1.0 BP3

ID	Description	Impacted Domains
KAKASHI-1333	Investigate AT!GPSSUPLNITIMEOUT command behavior discrepancy with AT document	AT
KAKASHI-1334	[EM8695]: APN does not persist after firmware upgrade/downgrade with SKU based ".sop" files	APN
KAKASHI-1354	AT!SELRAT does not actually set RAT preference	AT
KAKASHI-1375	[EM8695][AT&T][LTE-N37-1-3712] - Device behavior when PDU Session Establishment Requests for multi-purpose DNN are ignored by network	ATT
KAKASHI-1384	Modem is showing 'POWERING OFF' mode and 'Offline' state after physically powering up	Syntax
KAKASHI-1386	[EM8695][T-Mobile][TC-13610][RRCConnectionRequest has been received on wrong Cell]	TMO
KAKASHI-1387	[EM8695][T-Mobile][TC-20284][Attach Request Not Received, Or received before entering to WaitForAttach]	TMO
KAKASHI-1388	EM8695 PV sample have incorrect USB descriptor string.	USB
KAKASHI-1389	[EM8695_4.4V][PTCRB/GCF][TS36.521-1/TC7.3] Reference sensitivity level - Fail	PTCTB
KAKASHI-1390	[EM8695_4.4V][PTCRB/GCF][TS38.521-1/TC6.2.1] UE maximum output power - Fail	PTCTB
KAKASHI-1391	[EM8695_4.4V][PTCRB/GCF][TS38.521-1/TC6.2.4] Configured transmitted power - Fail	PTCTB
KAKASHI-1392	[EM8695_4.4V][PTCRB/GCF][TS38.521-1/TC6.3.3.2] General ON/OFF time mask - Fail	PTCTB
KAKASHI-1393	[EM8695_4.4V][PTCRB/GCF][TS38.521-1/TC6.3.3.6] SRS time mask - Fail	PTCTB
KAKASHI-1394	[EM8695_4.4V][PTCRB/GCF][TS38.521-1/TC6.4.2.4] EVM equalizer spectrum flatness - Fail	PTCTB
KAKASHI-1395	[EM8695_4.4V][PTCRB/GCF][TS38.521-1/TC6.5.2.4.1] NR ACLR - Fail	PTCTB

5 Firmware R1_BP2 SWIX35C_00.01.16.00

5.1 Firmware Release Description

5.1.1 Firmware Release Identification

Table 11. Firmware Release Identification – Release 1.0 BP2

Component	Details
Firmware Version	SWIX35C_00.01.16.00
Date of generation (UTC)	2025/07/30
IMEI SV	01
GSMA TS.25	2025.02.24
Chipset Vendor Stack Version	Kuno.LE.1.0-00430-NBOOT.NEFS.PROD-1
Supported HW	EM8695

5.1.2 Carrier Packages

Table 12. Carrier Packages – Release 1.0 BP2

Carrier	Firmware	Configuration	Comment
Approved			
Test			
Generic	SWIX35C_00.01.16.00	000.001_004	
Verizon	SWIX35C_00.01.16.00	000.001_006	
AT&T	SWIX35C_00.01.16.00	000.001_008	
TMO	SWIX35C_00.01.16.00	000.001_004	

5.1.3 Host Software Versions

The following tools were validated against this release.

Note: *Semtech recommends upgrading to newer Host Software releases when available. Refer to applicable software release notes for any compatibility restrictions.*

Table 13. Validated Host Software Tools

SW Tools Name	Version
Windows Driver	8695.0005.000 (for firmware update only)
MBPL	R44_0_25
FDTL (Firmware download tool Linux)	V4.3.1

5.1.4 Software Changes

Table 14. Software Changes – Release 1.0 BP2

ID	Description	Impacted Domains
CEI35-16	[EM8695][VZW][LWM2M][TC4.06] Querying HW version returns 0.4	LWM2M
KAKASHI-907	[EM86] Failed AT!GPSLBSAPN set execution	AT
KAKASHI-911	[EM86] Failing due to GCDUMP found AT!GCDUMP, FatalError	AT
KAKASHI-936	M2_RESET_N low asserted reset then module boot up to normal state	RESET_N
KAKASHI-974	AT!FGIENABLE	AT
KAKASHI-1111	[EM8695][Ubiquiti] eSIM behaviors on EM8695 PV2 sample	eSIM
KAKASHI-1119	[EM86] list index out of range when verify execution of QMI_NAS_SWI_GET_NR5G_CELL_INFO in some NR5G cell	QMI
KAKASHI-1120	[EM86] OK or ERROR didn't return after set AT!DARCONFIG	AT
KAKASHI-1132	[EM8695] Query about unpack_dms_GetCustFeaturesV2 with EM8695	QMI
KAKASHI-1136	[EM8695][VZW][5G RedCap IoT][TC 10.1.2] n77 is not included in supportedBandListNR in UECapabilityInformation	VzW
KAKASHI-1139	[EM8695][AT&T][LTE-N02-1-0120] - Failed due to UE did not register on network	ATT
KAKASHI-1141	Setting persistent LPM on EM86, AT!PCINFO does not reflect the same.	AT
KAKASHI-1142	EM86 module in LPM persistence mode after setting LPM mode from LPM persistence mode	LPM
KAKASHI-1148	[Security] QTI proprietary software issue CVE April to June' 25 on POST-CS[13]	CVE
KAKASHI-1154	[EM86][LETP#158] OK ERROR didn't return after AT!DASUB6TECHACT=1	AT
KAKASHI-1156	[EM8695][VZW][LWM2M][TC4.20] Device reports "-05:00" instead of expected "UTC-05:00"	LWM2M
KAKASHI-1178	[EM8695][VZW][Motive][TC11.02] FOTA failing with pkg provided on KAKASHI-1156	LWM2M
KAKASHI-1309	[EM8695][T-Mobile][TC-9977][UE is not able to register on NR]	TMO

5.1.5 Known Issues

Note: This section reflects known issues in Release 1.0 BP2 as of the Date of Generation UTC) indicated in the Release 1.0 BP2 Release Identification section above.

Table 15. Known Issues – Release 1.0 BP2

ID	Description	Impacted Domains
CEI35-12	[EM86] Module remains in Low Power after switching from PersistentLowPower to Factory Test to Online and rebooting	LPM
CEI35-17	[EM8695]EM8695 terminal profile	eSIM
CEI35-20	999999 firmware update(without OEMPRI) download to reset to default PROD setting	LWM2M
CEI35-22	[EM8695][VZW][Class3 APN for OD][TC 1] APN3 does not update after inserting a static sim to the device	APN
KAKASHI-1076	eSIM HW SKU, !UIMS eSIM slot when no profile, AT+CPIN? returns SIM not inserted	SIM
KAKASHI-1103	The FW returned is incorrect when querying right after the upgrade finished	FW upgrade
KAKASHI-1116	[EM86] AT+ CGCONTRDP shows wrong APN name if network assign the APN but different with UE request APN name	APN
KAKASHI-1164	pack/unpak_nas_SlqsGetCqi returns error in 5G SA mode	QMI
KAKASHI-1326	Profile name not displayed	Profile
KAKASHI-1327	Current PLMN Descriptor shows NULL	PLMN
KAKASHI-1328	[EM8695][VZW][Motive][default URL] node /0/0/0 always defaults to motive URL after upgrading module module with One click tool (.exe)	LWM2M
KAKASHI-1334	[EM8695]: APN does not persist after firmware upgrade/downgrade with SKU based ".sop" files	APN
KAKASHI-1337	eSIM not detected with new batch of modules	eSIM
KAKASHI-1342	Discrepancy about band capability between AT!SDPREF? and QMI	AT

6 Firmware R1_BP1 SWIX35C_00.01.15.00

6.1 Firmware Release Description

6.1.1 Firmware Release Identification

Table 16. Firmware Release Identification – Release 1.0 BP1

Component	Details
Firmware Version	SWIX35C_00.01.15.00
Date of generation (UTC)	2025/06/30
IMEI SV	01
GSMA TS.25	2025.02.24
Chipset Vendor Stack Version	Kuno.LE.1.0-00430-NBOOT.NEFS.PROD-1
Supported HW	EM8695

6.1.2 Carrier Packages

Table 17. Carrier Packages – Release 1.0 BP1

Carrier	Firmware	Configuration	Comment
Approved			
Test			
Generic	SWIX35C_00.01.15.00	000.001_003	
Verizon	SWIX35C_00.01.15.00	000.001_004	
AT&T	SWIX35C_00.01.15.00	000.001_005	
TMO	SWIX35C_00.01.15.00	000.001_002	

6.1.3 Host Software Versions

The following tools were validated against this release.

Note: *Semtech recommends upgrading to newer Host Software releases when available. Refer to applicable software release notes for any compatibility restrictions.*

Table 18. Validated Host Software Tools

SW Tools Name	Version
Windows Driver	8695.0003.000 (for firmware update only)
MBPL	R44_0_25
FDTL (Firmware download tool Linux)	V4.3.1

6.1.4 Software Changes

Table 19. Software Changes – Release 1.0 BP1

ID	Description	Impacted Domains
KAKASHI-840	[EM86][Poweroff_Timing] LPM persistence field in AT!PCINFO? is incorrect after disabling the cellular network interface in Windows VANUI.	LPM
KAKASHI-983	[EM8695][VZW][5GNRSASYSEL][TC2.1.1] UE Fails to establish a PDU session with IMS DNN after registration with cell NR_Cell_XN1	VzW
KAKASHI-987	[EM86] MBIM Port Shows Yellow Bang and QD Loader , After PC Restart	Stability
KAKASHI-1000	[EM8695][VZW][Pre-FIT][REDCAP]Unexpected APN attach on device bootup.	VzW
KAKASHI-1005	Fail to set IP with an address in at+cgdcont	AT
KAKASHI-1008	[EM86] Unsupported constellation NavIC in test enablement command	NavIC
KAKASHI-1009	[EM8695][VZW][SoCal]Failing SMS in Redcap SA mode	VzW
KAKASHI-1025	[EM8695][VZW][Class3 APN for OD][TC1] APN3 does not update after inserting a static sim to the device	VzW
KAKASHI-1055	[EM86][Network Assigned MTU] Enable MTU request by writing false on NV74033 , MTU VALUE doesn't update from Amarisoft setting, still keep setting from AT_CMD	AT
KAKASHI-1059	[EM8695][VZW][LWM2M][TC5.10] Device shows network disconnect during Tc execution	LWM2M
KAKASHI-1061	[EM86][LED blink pattern] After LED enter NO_SRV around 5~10s,modeule auto drop port ,then LED auto change to LPM	LED
KAKASHI-1062	[EM86][LED blink pattern] Power up module with W_Disable asserted, Module auto into NO_SVR mode, changed switch to de_assert W_Disable, also can't recover to Normal	LED
KAKASHI-1063	[EM86][LED blink pattern] Network In data actvie mode, LED Only OFF 3~5s after set at!ledtest=0,0	LED
KAKASHI-1064	[EM86][Dying gasp] When user input error parameter, responses OK	Syntax
KAKASHI-1077	Inconsistent reset reason between AT!BCRESETYPE? and QMI_DMS_SWI_GET_RESET_INFO for cold boot	AT
KAKASHI-1112	[EM86][Temperature warning] AT!TMCONFIG, when user input error parameter, responses OK	AT

KAKASHI-1117	[EM8695][VZW][Class3 APN for OD] APN3 is pre-emptively updated to "vzwinternet" after inserting a dynamic sim card.	VzW
KAKASHI-1133	[EM8695][VZW][LWM2M][TC4.06] Querying HW version returns 0.4	LWM2M
KAKASHI-1135	LPM does not persist after resetting the module when the radio state is off for EM86	LPM
KAKASHI-1136	[EM8695][VZW][5G RedCap IoT][TC 10.1.2] n77 is not included in supportedBandListNR in UECapabilityInformation	VzW

6.1.5 Known Issues

Note: This section reflects known issues in Release 1.0 BP1 as of the Date of Generation UTC) indicated in the Release 1.0 BP1 Release Identification section above.

Table 20. Known Issues – Release 1.0 BP1

ID	Description	Impacted Domains
KAKASHI-318	Dataloopback function can't work in Windows	Dataloopback
KAKASHI-936	M2_RESET_N low asserted reset then module boot up to normal state	RESET_N
KAKASHI-966	Unable to fetch dynamically change TS temperature value using unpack_ts_SLQSTsRegNotTempRptV2 api	QMI
KAKASHI-1048	[EM86][Network Slicing] Can't clear default NSSAI from sampleAPPs_Run option 20 and type Enter	NetworkSlicing
KAKASHI-1049	[EM86][Network Slicing] when netsh mbn connect interface="Cellular" connmode=name name={517215F8-205C-4DEB-A24E-E87753F2C254},response ERROR	NetworkSlicing
KAKASHI-1050	[EM86][Network Slicing] Make data connection via Sample app on Linux , can't ping 8.8.8.8 successfully	NetworkSlicing
KAKASHI-1051	[EM86][Network Slicing] Can't clear default NSSAI via using Sdklite sample app,then get the default NSSAI again, show error	NetworkSlicing
KAKASHI-1076	eSIM HW SKU, !UIMS eSIM slot when no profile, AT+CPIN? returns SIM not inserted	SIM
KAKASHI-1080	[EM8695] QoS Flow ID 0 returns QMI error 1071 on "Get QOS Information"	QMI
KAKASHI-1103	The FW returned is incorrect when querying right after the upgrade finished	FW update
KAKASHI-1111	[EM8695][Ubiquiti] eSIM behaviors on EM8695 PV2 sample	eSIM
KAKASHI-1116	[EM86] AT+ CGCONTRDP shows wrong APN name if network assign the APN but different with UE request APN name	APN
KAKASHI-1119	[EM86] list index out of range when verify execution of QMI_NAS_SWI_GET_NR5G_CELL_INFO in some NR5G cell	QMI
KAKASHI-1120	[EM86] OK or ERROR didn't return after set AT!DARCONFIG	AT
KAKASHI-1129	[EM8695] QXDM issue - VZW IoT lab	VZW
KAKASHI-1130	[EM86] After Class 3 APN name change, device still requests VZWINTERNET	VZW

KAKASHI-1134	Cannot pack_nas_SlqsGetCqi() instead of deprecated pack_nas_SLQSSwiGetLteCQI() since the output/behavior is not the same	QMI
KAKASHI-1138	[EM8695][AT&T][LTE-N38-1-3951] - Failed due to NR UE capability supports NR Band 77	ATT
KAKASHI-1139	[EM8695][AT&T][LTE-N02-1-0120] - Failed due to UE did not register on network	ATT
KAKASHI-1140	Migration to pack_nas_SLQSGetSysInfo() from pack_nas_SLQSGetServingSystem(). Not all parameters are present in the new API	QMI
KAKASHI-1141	Setting persistent LPM on EM86, AT!PCINFO does not reflect the same.	AT
KAKASHI-1142	EM86 module in LPM persistence mode after setting LPM mode from LPM persistence mode	LPM
KAKASHI-1143	[EM8695][VZW][5GSADDataRetry][TC2.1.1] Tc failed at Step 8 with error - UE has not attempted to access any NR cells.	VZW
KAKASHI-1144	[EM8695][VZW][5GSADDataRetry][TC2.4.1] UE did not wait at least 16 seconds (0.1 seconds) after step 8 for sending another RACH request on the same cell (NR_Cell_XN2) as in step 8	VZW
KAKASHI-1145	[EM8695][VZW][5GSADDataRetry][TC6.3] The UE does not wait at least 16 seconds (0.1 seconds) after step 8, before sending another RACH request on the same cell (NR_Cell_XN2) as in step 8	VZW
KAKASHI-1146	[EM8695][VZW][5GSADDataRetry][TC6.4] The UE does not wait at least 16 seconds (0.1 seconds) after step 8, before sending another RACH request on the same cell (NR_Cell_XN2) as in step 8	VZW
KAKASHI-1152	[EM86][LETP][MBPL] Failed to set MTU with correct value	MTU
KAKASHI-1153	[EM86][LETP#158] Unexpected syntax for AT!DATALOOPBACK? response	AT
KAKASHI-1154	[EM86][LETP#158] OK ERROR didn't return after AT!DASUB6TECHACT=1	AT
KAKASHI-1155	[EM86][LETP#158] Fix should show SUCCESS	QMI
KAKASHI-1156	[EM8695][VZW][LWM2M][TC4.20] Device reports "-05:00" instead of expected "UTC-05:00"	VZW
KAKASHI-1158	[EM8695][Ubiquiti] Drop call during throughput test in 5 hours with Anritsu MT8000A	RF
KAKASHI-1159	[EM8695] Issue with TX measurements at room temperature and high temperature	Thermal
KAKASHI-1162	[EM8695][FCC/IC]Target power with 1dB tolerance exceeds Original Qualcomm/SDX35	FCC
KAKASHI-1164	pack/unpak_nas_SlqsGetCqi returns error in 5G SA mode	QMI
CEI35-1	[EM86][Network Slicing][LA] Run sample APP option 20 to set default NSSAI Fail	Network Slicing
CEI35-2	[EM86][Network Assigned MTU][CA] Failed to set MTU_1350	MTU
CEI35-3	[EM86][Network Assigned MTU][CA] After disable MTU_reguset(NV74033)& set !SCUMMTU=0, ready MTU value is 1500, Not 1430(for ATT default) in both Linux and Windows	MTU
CEI35-5	[EM86][LTP#162] USBCOMP settings is incorrect	USB
CEI35-6	[EM86][Throughput benchmark][LA]Uplink Speed Cannot Increase During TCP Bi-Directional Throughput Test Under LTE (IPv4/IPv6) and NR (IPv4)	Tput

7 Firmware Release 0.5 SWIX35C_00.01.14.00

Release 0.5 for EM8695 PV/PP sample upgrade version.

7.1 Firmware Release Description

7.1.1 Firmware Release Identification

Table 21. Firmware Release Identification – Release 0.5

Component	Details
Firmware Version	SWIX35C_00.01.14.00
Date of generation (UTC)	2025/05/26
IMEI SV	01
GSMA TS.25	2025.02.24
Chipset Vendor Stack Version	Kuno.LE.1.0-00430-NBOOT.NEFS.PROD-1
Supported HW	EM8695

7.1.2 Carrier Packages

Table 22. Carrier Packages – Release 0.5

Carrier	Firmware	Configuration	Comment
Approved			
Test			
Generic	SWIX35C_00.01.14.00	000.001_003	
Verizon	SWIX35C_00.01.14.00	000.001_002	
AT&T	SWIX35C_00.01.14.00	000.001_003	
TMO	SWIX35C_00.01.14.00	000.001_002	

7.1.3 Host Software Versions

The following tools were validated against this release.

Note: Semtech recommends upgrading to newer Host Software releases when available. Refer to applicable software release notes for any compatibility restrictions.

Table 23. Validated Host Software Tools

SW Tools Name	Version
Windows Driver	8695.0002.000 (for firmware update only)
MBPL	R43.0.25
FDTL (Firmware download tool Linux)	V4.2.0

7.1.4 Software Changes

Table 24. Software Changes – Release 0.5

ID	Description	Impacted Domains
KAKASHI-269	OpenSSL version to be upgraded to 1.1.1w or after	OpenSSL
KAKASHI-325	5G n66 TX RSB Calibration Fail in CS9	RF
KAKASHI-360	AT!CUSTOM "NETWORKNAMEFMT" feature does not work in Windows MBIM	AT
KAKASHI-659	[EM86][LED blink pattern] Network in "NO service",LED instruction show "In service".	LED
KAKASHI-661	[EM86] LED instruction Show "IN service",Not ROAMING, when DUT is in roaming state	LED
KAKASHI-664	4G B2TX RSB Cal fail	RF
KAKASHI-668	AT!FLOG command syntax	Syntax
KAKASHI-727	[EM86][AT CMD] QTI_INT_ATUSBCOMP_0007, Cannot find rmnet interface in host USB configuration	Syntax
KAKASHI-757	AT+CSPN plan support in the CA+1.	AT
KAKASHI-782	4G B4 TX_RSB Cal fail	RF
KAKASHI-798	[EM86][AT CMD] EMM state response is incorrect in AT!GSTATUS	Syntax
KAKASHI-808	[EM86][QMI] The Syntax of PCC RX pairs is incorrect in AT!GSTATUS?	QMI
KAKASHI-819	[EM86][MBPL] Fail to set dataloopback with SDK QMI_WDS_SWI_SET_DATA_DATA_LOOPBACK	QMI
KAKASHI-874	[EM86] Constellation NAVIC is not supported in module	NAVIC
KAKASHI-885	[EM86] Syntax error for TAC information in AT!GSTATUS	Syntax
KAKASHI-904	[Linux] Error code 1115 returned on from lite-qmi-loc SDK for InjectSuplCertificate, DeleteSuplCertificate, DeleteAssistData options	GNSS
KAKASHI-911	[EM86] Failing due to GCDUMP found AT!GCDUMP, FatalError	AT
KAKASHI-943	AT!CUSTOM DIAGENABLE feature for Disable/Enable diag interfaces	AT
KAKASHI-949	[EM86] OK didn't return after AT!PCINFO?	AT
KAKASHI-950	[EM86] LTE B70 mask was missing under AT!BAND	AT

KAKASHI-954	[EM8695][PTCRB/GCF][TS36.523-1/TC8.5.4.1] UE capability transfer / Success - Fail	Certification
KAKASHI-955	[EM8695][PTCRB/GCF][TS38.523-1/TC8.1.5.1.1] UE Capability transfer / Success - Fail	Certification
KAKASHI-958	[EM86] AT!gstatus? Rx diversity RSRP sometimes return unstable value (RXD RSSI: 0, RSRP: -256)	AT
KAKASHI-960	[EM86] AT command sometimes no response under stress test	AT
KAKASHI-965	[Debug] AT!GCDUMP can't get modem crash log line details information	AT
KAKASHI-968	AT!RFCID	AT
KAKASHI-969	[EM8695][VZW][LWM2M] LWM2M commands(at!dmsession,at!dmdebug,etc) dont work without level2 unlock	LWM2M
KAKASHI-971	[EM8695][VZW][LwM2M/Motive][TC 8.01] SMS counter on node /7/0/0 is not incremented after sending SMS	LWM2M
KAKASHI-972	AT!NVENCRYPTIMEI command	AT
KAKASHI-973	REQ_GNSS_0323 - AT!XOCALSTATE	AT
KAKASHI-986	[LwM2M] Client encounters an exception when it receives empty content during the 5.07_08_1 CLASS 3-6 APN case	LWM2M
KAKASHI-988	[EM8695][VZW][LWM2M][TC 4.01] Manufacturer name should be "Sierra Wireless"	Syntax
KAKASHI-991	[EM8695][PTCRB/GCF][TS31.121/TC15.2.5] Authentication procedure for registrations - Fail	Certification
KAKASHI-992	Modify PA, CPU sensor configure format in !TMCONFIG and !TMSTATUS to follow Thermal Mitigation Guide	Syntax
KAKASHI-994	[EM86] QTI_INT_FWID_0000 - list index out of range	QMI
KAKASHI-996	[EM86] Flog entry contains incorrect firmware string	AT
KAKASHI-997	[EM86] Reply format of AT!CUSTOM=? is incorrect	AT
KAKASHI-1003	[EM86][AT CMD] Command returned error when enter multiple AT!PCINFO?	AT
KAKASHI-1007	[EM86] RESET_INFO Indication was not received within the timeout	QMI
KAKASHI-1011	[EM8695][Ubiquiti] LTE B70 mask is missing under AT!BAND=?	AT
KAKASHI-1020	[EM86][AT CMD] USB configuration did not persist after reboot	AT
KAKASHI-1021	[LwM2M] dmread cannot read security resource 9 - server sms number	LWM2M
KAKASHI-1024	[EM86][Dying gasp] AT!DGSMCONTENT=? / AT!DGSMSEST =? / AT!DGSTATS =?, query commands return only "OK" without expected information	AT
KAKASHI-1053	[EM86][GNSS antenna support] When user input error parameter, responses OK	GNSS
KAKASHI-1054	[EM86][Temperature warning] When user input error parameter, responses OK	AT
KAKASHI-1057	[VZW] IMS does not registered in VZW network	IMS
KAKASHI-1060	[EM8695][Onboard_eSIM] ESIM not work on Win10 & W11	eSIM

7.1.5 Known Issues

Note: This section reflects known issues in Release 0.5 as of the Date of Generation UTC indicated in the Release 0.5 Release Identification section above.

Table 25. Known Issues – Release 0.5

ID	Description	Impacted Domains
KAKASHI-318	Dataloopback function can't work in Windows	Dataloopback
KAKASHI-903	IMPREF not updated	AT
KAKASHI-916	[EM86]: fail to establish data connection with qmi command	QMI
KAKASHI-936	M2_RESET_N low asserted reset then module boot up to normal state	RESET_N
KAKASHI-939	[EM86]AT!gstatus? Rx diversity RSRP sometimes return unstable value (RXD RSSI - 120 RSRP - 140)	AT
KAKASHI-941	[EM86] LibQMI function not work as expected	QMI
KAKASHI-953	Unexpected QMI_WDS_GET_PKT_SRVC_STATUS_MSG indications	QMI
KAKASHI-961	The implementation of AT!SECINFO and AT!SECBOOTCFG does not aligned with SMTC ATIFS	AT
KAKASHI-966	Unable to fetch dynamically change TS temperature value using unpack_ts_SLQSTsRegNotTempRptV2 api	QMI
KAKASHI-978	[EM86] eSIM active failure	SIM
KAKASHI-983	[EM8695][VZW][5GNRSASYSSEL][TC2.1.1] UE Fails to establish a PDU session with IMS DNN after registration with cell NR_Cell_XN1	VzW
KAKASHI-987	[EM86] MBIM Port Shows Yellow Bang and QD Loader , After PC Restart	MBIM
KAKASHI-990	eSIM HW SKU, !UIMS eSIM slot, AT+CPIN? returns SIM failure after +CFUN exits LPM	AT
KAKASHI-1000	[EM8695][VZW][Pre-FIT][REDCAP]Unexpected APN attach on device bootup.	APN
KAKASHI-1005	Fail to set IP with an address in at+cgdcont	AT
KAKASHI-1008	[EM86] Unsupported constellation NavIC in test enablement command	NAVIC
KAKASHI-1009	[EM8695][VZW][SoCal]Failing SMS in Redcap SA mode	VzW
KAKASHI-1013	[EM86][QMI Object Manual Test][MBPL] RXD_RSRQ &RXD_SINR Variance Beyond Tolerance Between MBPL SDK and AT!GSTATUS?	QMI
KAKASHI-1025	[EM8695][VZW][3GClass3 APN test][TC1] APN3 does not update after inserting a static sim to the device	VzW
KAKASHI-1026	[EM8695][VZW][Class3_APN_OD][TC1] Static APN updates but in Class 2 APN slot instead of Class 3	VzW
KAKASHI-1044	[EM8695][VZW] Rebooting the device without SIM puts it in LPM	VzW
KAKASHI-1045	[EM8695][GCF-FT][5G NR2-6.4.2/107.7.2] Reselection from EPC to 5GC -Fail	GCF FT
KAKASHI-1047	[EM86][CMAS] Error occurred while executing the Get SMS Routes command	SMS
KAKASHI-1048	[EM86][Network Slicing] Can't clear default NSSAI from sampleAPPs_Run option 20 and type Enter	Network Slicing
KAKASHI-1049	[EM86][Network Slicing] when netsh mbn connect interface="Cellular" connmode=name name={517215F8-205C-4DEB-A24E-E87753F2C254},response ERROR	Network Slicing
KAKASHI-1050	[EM86][Network Slicing] Make data connection via Sample app on Linux , can't ping 8.8.8.8 successfully	Network Slicing
KAKASHI-1051	[EM86][Network Slicing] Can't clear default NSSAI via using Sdklite sample app,then get the default NSSAI again, show error	Network Slicing
KAKASHI-1052	[EM86][GNSS antenna support] glonass can't fix with weak signal	GNSS

KAKASHI-1055	[EM86][Network Assigned MTU] Enable MTU request by writing false on NV74033 , MTU VALUE doesn't update from Amarisoft setting, still keep setting from AT_CMD	MTU
KAKASHI-1059	[EM8695][VZW][LWM2M][TC5.10] Device shows network disconnect during Tc execution	LWM2M
KAKASHI-1061	[EM86][LED blink pattern] After LED enter NO_SRV around 5~10s,modeule auto drop port ,then LED auto change to LPM	LED
KAKASHI-1062	[EM86][LED blink pattern] Power up module with W_Disable asserted, Module auto into NO_SRV mode, changed switch to de_assert W_Disable, also can't recover to Normal	LED
KAKASHI-1063	[EM86][LED blink pattern] Network In data actvie mode, LED Only OFF 3~5s after set at!ledtest=0,0	LED
KAKASHI-1075	[Cisco][EM8695] After pack_nas_SlqsGetCqi() is called, there is no response coming for this QMI request and it times out	QMI
KAKASHI-1076	eSIM HW SKU, !UIMS eSIM slot when no profile, AT+CPIN? returns SIM not inserted	Syntax
KAKASHI-1077	Inconsistent reset reason between AT!BCRESETTYPE? and QMI_DMS_SWI_GET_RESET_INFO for cold boot	AT
KAKASHI-1080	[EM8695] QoS Flow ID 0 returns QMI error 1071 on "Get QOS Information"	QMI
KAKASHI-1095	[EM8695][VZW][LTE DR][TC 4.14.3] RRC connection failed after 24 hour timer expiry	VzW
KAKASHI-1097	[EM8695][PTCRB/GCF][TS38.533/TC 16.6.3.2] NR - E-UTRA event-triggered reporting in non-DRX in FR1 for 2 Rx UE- Fail	Certification
KAKASHI-1098	[EM8695][PTCRB/GCF][TS38.533/TC 16.7.4.2.1] NR SA FR1 SSB based L1-RSRP absolute measurement for 2 Rx UE -Fail	Certification
KAKASHI-1099	[EM8695][PTCRB/GCF][TS38.533/TC 16.7.4.2.2] NR SA FR1 SSB based L1-RSRP relative measurement for 2 Rx UE -Fail	Certification
KAKASHI-1100	[EM8695][PTCRB/GCF][TS38.533/TC 18.2.1.1] E-UTRA - NR SA FR1 E-UTRAN - NR handover in FR1 -Fail	Certification

8 Firmware Release 0.4 SWIX35C_00.01.12.00

Release 0.4 for EM8695 PV/PP sample upgrade version.

8.1 Firmware Release Description

8.1.1 Firmware Release Identification

Table 26. Firmware Release Identification – Release 0.4

Component	Details
Firmware Version	SWIX35C_00.01.12.00
Date of generation (UTC)	2025/04/18
IMEI SV	01
GSMA TS.25	2024.10.21
Chipset Vendor Stack Version	Kuno.LE.1.0-00425-NBOOT.NEFS.PROD-1
Supported HW	EM8695

8.1.2 Carrier Packages

Table 27. Carrier Packages – Release 0.4

Carrier	Firmware	Configuration	Comment
Approved			
Test			
Generic	SWIX35C_00.01.12.00	000.001_002	
Verizon	SWIX35C_00.01.12.00	000.001_002	
AT&T	SWIX35C_00.01.12.00	000.001_002	
TMO	SWIX35C_00.01.12.00	000.001_002	

8.1.3 Host Software Versions

The following tools were validated against this release.

Note: Semtech recommends upgrading to newer Host Software releases when available. Refer to applicable software release notes for any compatibility restrictions.

Table 28. Validated Host Software Tools

SW Tools Name	Version
Windows Driver	8695.0002.000 (for firmware update only)
MBPL	R43.0.25
FDTL (Firmware download tool Linux)	V4.2.0

8.1.4 Software Changes

Table 29. Software Changes – Release 0.4

ID	Description	Impacted Domains
KAKASHI-326	AT!Custom="singleapnswitch",2 doesn't work	AT CMD
KAKASHI-328	Crash when RF set radio configuration for NR5G band under FTM mode	FTM
KAKASHI-337	AT!ENTERCND does not return ERROR if locked	AT CMD
KAKASHI-375	AT!GSTATUS MM5G state <mm5gstate> <mm5gsubstate> incorrect values	AT CMD
KAKASHI-378	[Cisco][Wistron][EM8695] FTM command not working when module power up state is online mode	FTM
KAKASHI-392	AT+CLAC implement in Modem code	3GPP
KAKASHI-404	[EM86][AT CMD] The CCID contains a non-numeric character	AT CMD
KAKASHI-408	[EM86][AT CMD] AT!GPSAUTOSTART? missing current time information	GNSS
KAKASHI-411	[EM86][AT CMD] AT!USBCOMP=? reply format is incorrect	Syntax
KAKASHI-414	[EM86][AT CMD] AT!USBSPEED=? reply format is incorrect	USB
KAKASHI-417	[EM86][AT CMD] AT!SMSWAKE=? reply format is incorrect	Syntax
KAKASHI-419	[EM86][QMI] Fail to set crash action	QMI
KAKASHI-422	[EM86][QMI] AT!RESET get type '0', not '2'	Syntax
KAKASHI-423	[EM86][QMI] AT+CFUN=1,1 get type '0', not '2'	Syntax
KAKASHI-424	[EM86][QMI] relay off / on, not '2'	Syntax
KAKASHI-426	[EM86][QMI] QTI_INT_QMI_GET_DEVICE_HARDWARE_REV_0000 failed, hardware Rev not contained in FSN	QMI
KAKASHI-427	[EM86][QMI] QMI_GET_DEVICE_SERIAL_NUMBERS_0000 Failed, invalid literal for int() with base 16: '0x'	Syntax
KAKASHI-428	[EM86][QMI] Failed to enable Event Report for W_DISABLE	QMI
KAKASHI-431	[EM86][QMI] HW controlled TLV missing	QMI
KAKASHI-432	[EM86][QMI] QMI_DMS_SWI_GET_RESET_INFO_0000 failed	Syntax
KAKASHI-433	[EM86][QMI] Indication was not received within the timeout	QMI
KAKASHI-436	[EM86][QMI] Unable to parse temperature from AT!PCTEMP	QMI

KAKASHI-437	[EM86][QMI] Fail to use QMI object to set DHCPRELAYENABLE custom feature	QMI
KAKASHI-456	[EM86][MBPL] QTI_INT_MBPL_WDS_0021, Menu selection response failed	QMI
KAKASHI-459	[EM86][AT CMD] ComException: OK didn't return after AT!GPSSTATUS?	GNSS
KAKASHI-464	[EM86][AT CMD] SMSWAKE not set/disabled successfully, assert '00000000' in 'AT!SMSWAKE?\r\n!SMSWAKE:\r\nEnabled\r\n\r\nOK'	Syntax
KAKASHI-473	Modem OEMPRI implementation	OEMPRI
KAKASHI-485	[EM86][QMI] Unable to correctly parse impref output	QMI
KAKASHI-487	[EM86][AT CMD]QTI_INT_ATUSBPRODUCT_0001, "AT!ENTERCND" should leave level 2 unlock to 1	AT CMD
KAKASHI-488	[EM86][AT CMD] QTI_INT_AT_USBSPEED_0002, "AT!ENTERCND" should leave level 2 unlock to 1	AT CMD
KAKASHI-489	[EM86][AT CMD] QTI_INT_ATUSBVID_0001, "AT!ENTERCND" should leave level 2 unlock to 1	AT CMD
KAKASHI-491	[EM86][AT CMD] QTI_INT_AT_SMSWAKE_0005, "AT!ENTERCND" should leave level 2 unlock to 1	AT CMD
KAKASHI-492	[EM86][AT CMD] QTI_INT_AT_SMSWAKEWIDTH_0002, "AT!ENTERCND" should leave level 2 unlock to 1	AT CMD
KAKASHI-495	[EM86][AT CMD] QTI_INT_AT_HWID_0000, "AT!ENTERCND" should leave level 2 unlock to 1	AT CMD
KAKASHI-496	[EM86][AT CMD] QTI_INT_AT_HWID_0003, "AT!ENTERCND" should leave level 2 unlock to 1	AT CMD
KAKASHI-498	[EM86][AT CMD][Case revise] QTI_INT_AT_GCFEN_0001 case need to be revised, should not use AT!UNLOCK	AT CMD
KAKASHI-500	[EM86][AT CMD] QTI_INT_AT_DATALOOPBACK_0000, "AT!ENTERCND" should leave level 2 unlock to 1	AT CMD
KAKASHI-509	[EM86][MBPL] QTI_INT_MBPL_USB_0007, Cannot parse mode from AT!GSTATUS?	AT CMD
KAKASHI-512	[EM86][AT CMD] AT!PCINFO? does not report device in LPM after AT+CFUN=0	AT CMD
KAKASHI-518	[EM86][AT CMD] QTI_INT_AT_GPSPOSMODE_0003, Module cannot set GPS positioning mode	AT CMD
KAKASHI-519	[EM86][AT CMD] QTI_INT_AT_GPSPOSMODE_0000/0001/0002, "AT!ENTERCND" should leave level 2 unlock to 1	AT CMD
KAKASHI-520	[EM86][AT CMD] QTI_INT_AT_GPSMOMETHOD_0000, Query command failure	GNSS
KAKASHI-521	[EM86][AT CMD] QTI_INT_AT_GNSSCONFIG_0000, GPS format does not match expected	Syntax
KAKASHI-523	[EM86][AT CMD] QTI_INT_AT_GSTATUS, syntax issue	AT CMD
KAKASHI-524	[EM86][AT CMD] AT!GSTATUS syntax error when in Factory mode	FTM
KAKASHI-527	[EM86][AT CMD] QTI_INT_AT_VERINFO_0001, AT!9 reply information is incorrect	Syntax
KAKASHI-529	QMI_NAS_SWI_GET_ANTENNA_SIG_INFO - LTE Rx info is available even under NR environment	QMI
KAKASHI-531	[EM8695][Palo Alto] PDP profile 1 and profile2 was not able to delete	AT CMD
KAKASHI-534	QMI_WDS_SWI_GET_PROFILE_SNSSAI: Unpack TLV error, length mismatch	QMI
KAKASHI-535	[AT] AT!SDPREF returns wrong syntax	Syntax

KAKASHI-536	SLQSQosGlobalQosFlow_ind and SLQSSetQosEventCallback_ind verification	QMI
KAKASHI-537	[EM86][AT CMD] QTI_INT_AT_DARCONFIG_0006, "AT!ENTERCND" should leave level 2 unlock to 1	AT CMD
KAKASHI-542	[EM86][AT CMD] QTI_INT_AT_GPSTRANSSEC_0002, "AT!ENTERCND" should leave level 2 unlock to 1	AT CMD
KAKASHI-544	[EM86][MBPL] QTI_INT_MBPL_NAS_0004, list index out of range	QMI
KAKASHI-547	[EM86][AT CMD] QTI_INT_AT_SIMDETPOL_0005, expected return ERROR when input AT!SIMDETPOL=?1	AT CMD
KAKASHI-554	[EM86][MBPL] QTI_INT_MBPL_WDS_0010, OK didn't return after AT+CFUN=1 is sent	AT CMD
KAKASHI-555	[EM86][MBPL] QTI_INT_MBPL_WDS_0011, OK didn't return after AT+CFUN=1 is sent	AT CMD
KAKASHI-560	[EM86][AT CMD] QTI_INT_ATQ_0000, AT+CSQ no OK in response	3GPP
KAKASHI-566	Abnormal RSSI value of QMI_NAS_SWI_GET_NR5G_CELL_INFO	QMI
KAKASHI-570	[EM86][AT CMD] Unexpected syntax for AT!DATALOOPBACK? response	Syntax
KAKASHI-572	[EM86][AT CMD] AT+CFUN did not return OK after max retries=3	AT CMD
KAKASHI-574	[EM86][AT CMD] AT!GNSSCONFIG=? GPS format does not match expected	AT CMD
KAKASHI-584	[EM86][AT CMD] AT!USBVID? return ERROR	AT CMD
KAKASHI-588	Abnormal result in QMI_DMS_GET_DEVICE_CAPS	QMI
KAKASHI-589	[GNSS SUPL][Lab cert AT command] Manage network initiated notifications	GNSS
KAKASHI-590	ERD REQ_GNSS_0306 - AT!GNSSDPOMODE	AT CMD
KAKASHI-595	[EM86][QMI] Unable to parse original selrat value	QMI
KAKASHI-599	Ensure that the AT command with the restricted attribute complies with the SWI organic product requirements	3GPP
KAKASHI-601	[EM86][AT CMD] AT!PCVOLTLIMITS? reply format is incorrect	AT CMD
KAKASHI-602	[EM86][AT CMD] AT!PATEMPLIMITS? reply format is incorrect	AT CMD
KAKASHI-603	[EM86][AT CMD] AT!PCTEMPLIMITS? reply format is incorrect	AT CMD
KAKASHI-606	[EM86][AT CMD] After entering AT!TMCONFIG with incompleated parameter, DUT crash	AT CMD
KAKASHI-609	Debug method for atfwd_daemon service	AT CMD
KAKASHI-614	[EM86][AT CMD] AT+CSQ doesn't work	3GPP
KAKASHI-621	[EM86] "AT!ENTERCND" design behavior kept level 2, and it should leave level 2 unlock to 1	AT CMD
KAKASHI-622	[EM86][AT CMD] AT!USBCOMP? shall return ERROR when DUT is in level 1 lock	AT CMD
KAKASHI-627	[EM86][AT CMD] QTI_INT_AT_HWID_0000, "AT!ENTERCND" should leave level 2 unlock to 1	AT CMD
KAKASHI-628	[EM86][AT CMD] Device can perform GPSTRANSSEC enablement when device is not level 2	AT CMD
KAKASHI-631	[EM86][AT CMD] AT!USBVID? shall return ERROR when DUT is in level 1 lock	AT CMD
KAKASHI-632	[EM86][AT CMD] USBSPPEED can be set when device is level 1	AT CMD
KAKASHI-633	[EM86][AT CMD] AT!USBPRODUCT? shall return ERROR when DUT is level 1	AT CMD
KAKASHI-634	[EM86][AT CMD] AT!USBPID? and AT!USBPID=? shall return ERROR when DUT is level 1	AT CMD
KAKASHI-635	[EM86][AT CMD] AT!USBMANUFACTURER? shall return ERROR when DUT is level 1	AT CMD

KAKASHI-636	[EM86][AT CMD] AT!PCINFO? reports LPM persistence is disabled	Performance
KAKASHI-638	[EM86]5G SA setting AT!RXDEN=0、 1、 2 any number, always keep 2RX	AT CMD
KAKASHI-643	[Linux] qmi-connection-manager Option 7 profile creation fails with existing APN	QMI
KAKASHI-645	[EM86][AT CMD] !TMCONFIG_ can't separately set PA or modem item, need to set successively(PA-> MODEM_ TSENS &MODEM_ TSENS1)	AT CMD
KAKASHI-646	[EM86][AT CMD] AT!DASUB6TECHACT doesn't work	AT CMD
KAKASHI-647	[EM86][AT CMD] AT!PCOFFEN reply format is Error	AT CMD
KAKASHI-648	[EM86]Unable to automatically switch to SIM2 after enabling eSIM	SIM
KAKASHI-650	[EM86][AT CMD] The syntax of AT!BAND set command is different	Syntax
KAKASHI-652	AT!TMCONFIG doesn't match ATIFS definition	Syntax
KAKASHI-653	AT!DATXCONTROL doesn't match ATIFS definition	Syntax
KAKASHI-658	[EM86] While Network set auto-connect for windows UI, WWAN _LED can't show current status on 1st power on module	LED
KAKASHI-660	[EM86] DUT got hang if enter incompleted parameter of AT!LEDTEST	LED
KAKASHI-661	[EM86] LED instruction Show "IN service",Not ROAMING, when DUT is in roaming state	LED
KAKASHI-662	[EM86] Power up module with W_Disable asserted, LED blink doesn't show (1s OFF 1s ON)	LED
KAKASHI-663	[EM86] AT!DAFTMACT and AT!DAFTMDEACT string update	AT CMD
KAKASHI-671	[EM86][AT CMD] QTI_INT_AT_IMAGE_0000, OK didn't return after AT!IMAGE?1,0	Syntax
KAKASHI-673	[EM86][AT CMD] QTI_INT_AT_USBSPEED_0003[0], Failed to reset	Performance
KAKASHI-676	[EM86][AT CMD] QTI_INT_AT_PCRESET_0000, Failed to reset	Performance
KAKASHI-677	[EM86] QTI_INT_MBPL_WDS_0023, FatalError during testing	QMI
KAKASHI-678	[EM86][AT CMD] QTI_INT_AT_GPSAUTOSTART_0005 Query command failure	Performance
KAKASHI-680	[EM86][AT CMD] QTI_INT_MECS_CSQ_0000, AT+CSQ=? return ERROR	3GPP
KAKASHI-686	[EM86][AT CMD] QTI_INT_PACKET_CGFTT_0000, AT+CGDCONT=4 return ERROR	3GPP
KAKASHI-693	[EM86][AT CMD] QTI_INT_SMS_CNMI_0000, AT+CNMI? return information is incorrect	3GPP
KAKASHI-694	[EM86][AT CMD] QTI_INT_AT_GPSAUTOSTART_0004, Fix should show SUCCESS	GNSS
KAKASHI-695	[EM86][QMI] QTI_INT_QMI_RMS_SET_EVENT_SMS_WAKE_0000, Wake Mask not present	QMI
KAKASHI-697	AT+CGAUTH	3GPP
KAKASHI-700	[EM86][MBPL] QTI_INT_MBPL_DMS_0007, IMEI software version is mismatched	Syntax
KAKASHI-701	[EM86][MBPL] QTI_INT_MBPL_DMS_0011, 'NoneType' object has no attribute 'decode'	Syntax
KAKASHI-702	[EM86][AT CMD] QTI_INT_AT_CGDCONT_PDN_0001, OK didn't return after AT+CGDCONT=2	3GPP
KAKASHI-707	[EM86] QTI_INT_QMI_SWINAS_GET_RFDEV_STATUS_0000, CtlService_InitializeRegularService failed (-1)	QMI

KAKASHI-710	[EM86][AT CMD] QTI_INT_NS_COPS_0000, AT+COPS? return information is incorrect	3GPP
KAKASHI-711	[EM86] QTI_INT_QMI_RMS_SET_EVENT_SMS_WAKE_0003, AT!SMSWAKE? return ERROR	Performance
KAKASHI-716	[EM86][MBPL] QTI_INT_MBPL_DMS_STATE_TRANSITION_0000, OK didn't return after AT!GSTATUS?	Performance
KAKASHI-718	[EM86][AT CMD] QTI_INT_AT_DACGPSCTON_0000, OK didn't return after AT!DACGPSCTON=1 and AT!DACGPSCTON=5	GNSS
KAKASHI-720	[EM86]QTI_INT_AT_GPSAUTOSTART_0003, Query command failure	Performance
KAKASHI-721	[EM86][AT CMD] QTI_INT_AT_GNSSDPOMODE_0000, AT!GNSSDPOMODE=? syntax error	Syntax
KAKASHI-722	[EM86][AT CMD] QTI_INT_AT_DARCONFIGDROP_0002, Module returned OK when not in FTM	FTM
KAKASHI-725	[EM86][AT CMD] QTI_INT_AT_GPSSTATUS_0000, Current year should start with 2	GNSS
KAKASHI-726	[EM86][AT CMD] QTI_INT_ATUSBCOMP_0005, AT!USBPID? return ERROR	Performance
KAKASHI-727	[EM86][AT CMD] QTI_INT_ATUSBCOMP_0007, Cannot find rmnet interface in host USB configuration	Syntax
KAKASHI-729	[EM86][AT CMD] QTI_INT_ATUSBPID_0001, AssertionError: Unexpected PID pairs	AT CMD
KAKASHI-730	[EM86][AT CMD] QTI_INT_QMI_RMS_SET_EVENT_SMS_WAKE_0001, tate should not have changed	AT CMD
KAKASHI-734	AT!DARCONFIG doesn't match ATIFS definition	Syntax
KAKASHI-738	[LwM2M] TC14.01 Host Device fail	LWM2M
KAKASHI-740	[EM86][AT CMD]The APN names for AT&T and FirstNet are incorrect.	APN
KAKASHI-742	[EM86][AT CMD] AT!SELRAT? command should not return an 'Error' response when switched to AT&T and Verizon carriers	AT CMD
KAKASHI-747	[EM86][MBPL] QTI_INT_MBPL_NAS_0005, Operator name is mismatched	QMI
KAKASHI-751	[EM86][AT CMD] QTI_INT_AT_GPSTRANSSEC_0005, 'OK ERROR' didn't return after AT!GPSSUPLURL="supl.google.com:7276"	Performance
KAKASHI-752	[LwM2M] TC11.02 Firmware Update (Out-Band) Test failed	LWM2M
KAKASHI-756	[LwM2M] APN list lost after FoTA update	APN
KAKASHI-758	[EM86] AT!GSTATUS? displays incorrect results when VZW is not connected to the live network.	AT CMD
KAKASHI-772	Client failed to perform registration update in at command at!dmexecute and at!dmsession	LWM2M
KAKASHI-776	[EM86][AT CMD] QTI_INT_AT_GPSPOSMODE_0003[0], 'ERROR OK' didn't return after AT!GPSPOSMODE=0	AT CMD
KAKASHI-780	AT!SECINFO syntax format is incorrect	Syntax
KAKASHI-781	AT!REDCAP?	AT CMD
KAKASHI-783	[LwM2M] Client cannot register to ACP server	LWM2M
KAKASHI-784	[EM86][AT CMD]AT!PCOFFEN accepts invalid input value	AT CMD
KAKASHI-788	[EM86][AT CMD] QTI_INT_AT_DATALOOPBACK_0002[MBIM-1-LTE], OK didn't return after AT!USBCOMP=1,1,0000109	Performance

KAKASHI-789	[EM86][AT CMD] QTI_INT_AT_VERINFO_0000/0002/0003, incorrect information return after AT!VERINFO	Syntax
KAKASHI-794	[EM86][AT CMD] QTI_INT_ATUSBCOMP_0012, Cannot find diag,modem,rmnet0 interface in USB configuration	USB
KAKASHI-795	[EM86][AT CMD] QTI_INT_AT_GPSAUTOSTART_0005, Set command failed	Performance
KAKASHI-797	[EM86][AT CMD] Unable to get a fix in 12 attempts	Syntax
KAKASHI-799	[EM86][AT CMD] System mode information in AT!GSTATUS? is incorrect when UE is no service for 5G ONLY	AT CMD
KAKASHI-801	[EM86][AT CMD] Syntax error for Mode in AT!GSTATUS?	AT CMD
KAKASHI-802	[EM86][AT CMD] OK didn't return after AT!BAND=F,1,"Amarisoft LTE 5",1,0000000000000010,0000000000000000,0000000000000000,000000000 is sent	AT CMD
KAKASHI-807	[EM86][AT CMD] System mode should be Unknown when UE is in offline mode	Syntax
KAKASHI-809	[EM86][QMI] Syntax error for Cell ID	QMI
KAKASHI-811	[EM86][AT CMD] "+CME ERROR: SIM failure" didn't return after AT+CPIN? is sent	3GPP
KAKASHI-812	[EM86][AT CMD] +CME ERROR: 22 didn't return after AT+CCHC=0000000000000000 is sent	3GPP
KAKASHI-813	[LwM2M] Sometimes cannot connect to Diag server due to retrieving IPv4 information failed	LWM2M
KAKASHI-814	[EM86] APN settings which added by user are lost after DUT reboot	APN
KAKASHI-815	AUTO-SIM rank all set to 255 (-1)	QMI
KAKASHI-816	[EM86][AT CMD] ERROR should be return when input is incorrect in AT!IMPREF	AT CMD
KAKASHI-821	[EM86][AT CMD] Session should still be active after first fix	GNSS
KAKASHI-822	[EM86][MBPL] Module is not in LPM mode	Performance
KAKASHI-823	AT!RMARESET=1 should return device to provisioned state with SKU configuration	AT CMD
KAKASHI-825	[EM86][AT CMD] AT!BAND not able to configure a custom bandmask	AT CMD
KAKASHI-826	[EM86][QMI] QMI_DMS_GET_FIRMWARE_PREF didn't returns INVALID_OPERATION when IMSWITCHHIDE is set	QMI
KAKASHI-827	[EM86][QMI] Set QMI_DMS_SET_FIRMWARE_PREF with invalid build_id, QmiErr.NONE: 0, is expected	QMI
KAKASHI-828	[EM86][QMI] Set QMI_DMS_SET_FIRMWARE_PREF with invalid unique_id, QmiErr.NONE: 0, is expected	QMI
KAKASHI-830	[EM86][QMI] QMI_DMS_SET_FIRMWARE_PREF should returns INVALID	QMI
KAKASHI-831	[EM86][QMI] Set QMI_DMS_SET_FIRMWARE_PREF with non-null terminated unique id should show argument too long, QmiErr.ARG_TOO_LONG: 19	QMI
KAKASHI-832	[EM86] Support Anterix B106	Anterix
KAKASHI-833	[EM86][QMI] Sets maximum size build_id in QMI_DMS_SET_FIRMWARE_PREF, maximum_build_id_length TLV not present	QMI
KAKASHI-834	[EM86][QMI] Sets maximum size unique_id in QMI_DMS_SET_FIRMWARE_PREF, argument too long didn't show up	QMI
KAKASHI-836	AT+CGPADDR returns empty response instead of string zero in IPv4 and IPv6 format.	AT CMD

KAKASHI-837	[EM86] AT command ready time after boot up	Performance
KAKASHI-838	[EM8695][MBPL] Persistent Low Power was set with MBPL, AT!PCINFO? returns incorrect output.	AT CMD
KAKASHI-839	[LwM2M] VERIZON lwm2m admin server connect failure	LWM2M
KAKASHI-840	[EM86] LPM persistence field in AT!PCINFO? is incorrect after disabling the cellular network interface in Windows VANUI.	LPM
KAKASHI-843	[EM86]some OEM PRI items are NOT restored after FW update	OEMPRI
KAKASHI-844	[EM86]The user define value is not able to updated after AT!RESETOEMPRI=2	OEMPRI
KAKASHI-848	[EM86][AT CMD] OK didn't return after AT!USBCOMP?	Performance
KAKASHI-849	[EM86][AT CMD] AT!RESET return ERROR	Performance
KAKASHI-851	[EM86] [Linux]EVB_WWLAN LED can't show DATA_ACTIVE mode	LED
KAKASHI-852	[EM86] [Windows]EVB_WWLAN LED can't show DATA_ACTIVE mode	LED
KAKASHI-856	AT!GPSLBSAPN=? ratmask text needs to include 'NR'	Syntax
KAKASHI-857	Rollback KAKASHI-650 solution to restore the original design as ATIFS requirement(AT!BAND)	Syntax
KAKASHI-873	[EM86] AT!GPSSATINFO? reply format is incorrect	AT CMD
KAKASHI-877	[EM86] AT!DARCONFIG configured specified band return ERROR	AT CMD
KAKASHI-881	[EM86] LPM persistence should not be enabled	LPM
KAKASHI-885	[EM86] Syntax error for TAC information in AT!GSTATUS	Syntax
KAKASHI-887	After the SIM swap, the APN configuration was incorrect	APN
KAKASHI-888	[EM86]FTM Command Development related to B106	FTM
KAKASHI-891	Cisco SKU configure wrong, OEMPRI value setting is not correct on USBCOMP, MBIM_TYPE, and Win FWID value.	OEMPRI
KAKASHI-897	[EM86][QMI] Enable QMI_NAS_GET_SERVING_SYSTEM Function	QMI
KAKASHI-901	[EM86]After executing "at!resetoempri=99 ", some custom items are not restored to default value	AT CMD
KAKASHI-907	[EM86] Failed AT!GPSLBSAPN set execution	AT CMD
KAKASHI-909	[EM86] OK didn't return after AT!USBPRODUCT?	USB
KAKASHI-923	[EM86] Return ERROR when set AT!DATXCONTROL	AT CMD
KAKASHI-932	[EM86] Set AT!DATXCONTROL returned OK when module not in FTM	AT CMD
KAKASHI-933	[EM86] Module returned OK when AT!DARCONFIG not configured	AT CMD

8.1.5 Known Issues

Note: This section reflects known issues in Release 0.4 as of the Date of Generation UTC indicated in the Release 0.4 Release Identification section above.

Table 30. Known Issues – Release 0.4

ID	Description	Impacted Domains
KAKASHI-360	AT!CUSTOM "NETWORKNAMEFMT" feature does not work in Windows MBIM	AT CMD

KAKASHI-361	[SDX35][Linux][Sample-Apps][PUNE] QOS messages are not returned after qos indication register is enabled	QoS
KAKASHI-659	[EM86]Network in "NO service",LED instruction show "In service".	LED
KAKASHI-668	AT!FLOG command syntax	AT CMD
KAKASHI-798	[EM86][AT CMD] EMM state response is incorrect in AT!GSTATUS	AT CMD
KAKASHI-808	[EM86][QMI] The Syntax of PCC RX pairs is incorrect in AT!GSTATUS?	QM
KAKASHI-819	[EM86][MBPL] Fail to set dataloopback with SDK QMI_WDS_SWI_SET_DATA_DATA_LOOPBACK	QMI
KAKASHI-859	[EM86][AT CMD] PDP context activate failed	AT CMD
KAKASHI-874	[EM86] Constellation NAVIC is not supported in module	NAVIC
KAKASHI-875	[EM86] QMI_DMS_SET_FIRMWARE_PREF Response contains error	QMI
KAKASHI-904	[Linux] Error code 1115 returned on from lite-qmi-loc SDK for InjectSuplCertificate, DeleteSuplCertificate, DeleteAssistData options	QMI
KAKASHI-911	[EM86] Failing due to GCDUMP found AT!GCDUMP, FatalError	AT CMD
KAKASHI-916	[EM86]: fail to establish data connection with qmi command	QMI
KAKASHI-931	[EM86] OK didn't return after AT!DAFTMDEACT	AT CMD
KAKASHI-936	M2_RESET_N low asserted reset then module boot up to normal state	RESET_N
KAKASHI-938	[EM86] Development correct <bw_index> of AT!DARCONFIG for LTE/NR of all bands	AT CMD
KAKASHI-939	[EM86]AT!gstatus? Rx diversity RSRP sometimes return unstable value (RXD RSSI - 120 RSRP - 140)	RSRP
KAKASHI-940	Some issues with profile management with lite-qmi-connection-manager	QMI
KAKASHI-941	[EM86] LibQMI function not work as expected	AT CMD
KAKASHI-943	AT!CUSTOM DIAGENABLE feature for Disable/Enable diag interfaces	AT CMD
KAKASHI-949	[EM86] OK didn't return after AT!PCINFO?	AT CMD
KAKASHI-950	[EM86] LTE B70 mask was missing under AT!BAND	AT CMD
KAKASHI-951	[EM86] Ping failed with specified band of LTE	QMI
KAKASHI-952	[EM86] AT!PCINFO W_DISABLE voter info is incorrect	AT CMD
KAKASHI-953	Unexpected QMI_WDS_GET_PKT_SRVC_STATUS_MSG indications	QMI
KAKASHI-954	[EM8695][PTCRB/GCF][TS36.523-1/TC8.5.4.1] UE capability transfer / Success - Fail	Certification
KAKASHI-955	[EM8695][PTCRB/GCF][TS38.523-1/TC8.1.5.1.1] UE Capability transfer / Success - Fail	Certification
KAKASHI-956	[EM8695][PTCRB/GCF][TS38.523-1/TC8.1.5.8.1] RRC checks - Fail	Certification
KAKASHI-957	[EM8695][PTCRB/GCF][TS36.521-1/TC6.2.2] UE Maximum Output Power - Fail	Certification
KAKASHI-958	[EM86] AT!gstatus? Rx diversity RSRP sometimes return unstable value (RXD RSSI: 0, RSRP: -256)	RSRP
KAKASHI-959	[EM86]AT!gstatus? Rx main RSRP show diversity RSRP after removing main antenna	RSRP
KAKASHI-960	[EM86] AT command sometimes no response under stress test	AT CMD
KAKASHI-965	[Debug] AT!GCDUMP can't get modem crash log line details information	AT CMD
KAKASHI-966	Unable to fetch dynamically change TS temperature value using unpack_ts_SLQSTsRegNotTempRptV2 api	QMI
KAKASHI-968	AT!RFCID	AT CMD
KAKASHI-969	[EM8695][VZW][LWM2M] LWM2M commands(at!dmsession,at!dmdebug,etc) dont work without level2 unlock	LWM2M

9 Firmware Release 0.3 SWIX35C_00.01.10.00

Release 0.3 for EM8695 PV/PP sample upgrade version.

9.1 Firmware Release Description

9.1.1 Firmware Release Identification

Table 31. Firmware Release Identification – Release 0.3

Component	Details
Firmware Version	SWIX35C_00.01.10.00
Date of generation (UTC)	2025/01/10
IMEI SV	01
GSMA TS.25	2024.10.21
Chipset Vendor Stack Version	Kuno.LE.1.0-00405-NBOOT.NEFS.M2.PROD-1
Supported HW	EM8695

9.1.2 Carrier Packages

Table 32. Carrier Packages – Release 0.3

Carrier	Firmware	Configuration	Comment
Approved			
Test			
Generic	SWIX35C_00.01.10.00	000.001_000	
Verizon	SWIX35C_00.01.10.00	000.001_000	
AT&T	SWIX35C_00.01.10.00	000.001_000	
TMO	SWIX35C_00.01.10.00	000.001_000	

9.1.3 Host Software Versions

The following tools were validated against this release.

Note: Semtech recommends upgrading to newer Host Software releases when available. Refer to applicable software release notes for any compatibility restrictions.

Table 33. Validated Host Software Tools

SW Tools Name	Version
Windows Driver	8695.000.000 (for firmware update only)
MBPL	R42.0.24

9.1.4 Software Changes

Table 34. Software Changes – Release 0.3

ID	Description	Impacted Domains
KAKASHI-105	Throughput benchmark	Performance
KAKASHI-161	Over temperature protection	Thermal
KAKASHI-162	Temperature warning	Thermal
KAKASHI-285	NR TX power/RX Chan/TX Chan information are not correct	AT
KAKASHI-317	AT+CPIN return SIM busy when SIM already removed	AT
KAKASHI-328	Crash when RF set radio configuration for NR5G band under FTM mode	FTM
KAKASHI-332	Wrong NR TX power/RX Chan/TX Chan information from CDM APP/QMI	AT
KAKASHI-333	QMI_SWI_DMS_SET_HOST_INTF_COMP and QMI_SWI_DMS_GET_HOST_INTF_COMP are not working	QMI
KAKASHI-334	LwM2M client is unable to connect to server	LWM2M
KAKASHI-336	Supported AT commands are missing from AT+CLAC	AT
KAKASHI-342	ATI command returns wrong syntax	AT
KAKASHI-343	Update IMEI SV to 01	PTCRB
KAKASHI-344	AT!UIMS=3 doesn't work	AT
KAKASHI-345	DataLoopback <sys mode> doesn't work	AT
KAKASHI-347	<duty_cycle> in AT!DATXCONTROL doesn't work	AT
KAKASHI-348	AT!CUSTOM? syntax issue	AT
KAKASHI-355	Failed to perform FW upgrade and downgrade using OCT	Integration
KAKASHI-356	AT port number changed after device FW upgrade	Integration
KAKASHI-358	[EM8695] PV Devices Unable to test in FTM mode	FTM
KAKASHI-369	AT!USBCOMP? and AT!USBPID? syntax issue	AT
KAKASHI-370	AT!IMPREF switch to Generic PRI	AT
KAKASHI-373	[GPS] [TTFF performance] GPS cold start time is invalid	GNSS
KAKASHI-378	[EM8695] FTM command not working when module power up state is online mode	FTM
KAKASHI-381	AT!DATALOOPBACK setting doesn't work correctly	AT

KAKASHI-520	[EM86][AT CMD] QTI_INT_AT_GPSMOMETHOD_0000, Query command failure	AT
KAKASHI-521	[EM86][AT CMD] QTI_INT_AT_GNSSCONFIG_0000, GPS format does not match expected	AT
KAKASHI-522	[EM86][AT CMD] AT!HWID=? output information is incorrect	AT
KAKASHI-525	[EM86][AT CMD] AT!DACGPSTESTMODE=0 returns ERROR	AT
KAKASHI-570	[EM86][AT CMD] QTI_INT_AT_DATALOOPBACK_0001, Unexpected syntax for AT!DATALOOPBACK? response	AT
KAKASHI-574	[EM86][AT CMD] AT!GNSSCONFIG=? GPS format does not match expected	AT
KAKASHI-596	[AT CMD] LeTP Test failure, HLOS at_daemon service problem always return ERROR	AT

9.1.5 Known Issues

Note: This section reflects known issues in Release 0.3 as of the Date of Generation (UTC) indicated in the Release 0.3 Release Identification section above.

Table 35. Known Issues – Release 0.3

ID	Description	Impacted Domains
KAKASHI-267	AT!GPSCLRASSIST	AT
KAKASHI-295	[EM86][AT CMD] After set AT!EROPTION=0, DUT still restart instead of entering USB download mode after force crash	AT
KAKASHI-307	#FCPO signal graceful software reset and shutdown timing tuning	Integration
KAKASHI-318	Dataloopback function can? work in Windows	Firmware
KAKASHI-319	DUT reboot once when carrier switch	Firmware
KAKASHI-326	AT!Custom="singleapnswitch",2 doesn't work.	AT
KAKASHI-328	Crash when RF set radio configuration for NR5G band under FTM mode	FTM
KAKASHI-329	The module's power current is higher than expected when the USB DM port is enumerated.	USB
KAKASHI-337	AT!ENTERCND does not return ERROR if locked	AT
KAKASHI-360	AT!CUSTOM "NETWORKNAMEFMT" feature does not work in Windows MBIM	AT
KAKASHI-361	[SDX35][Linux][Sample-Apps][PUNE] QOS messages are not returned after qos indication register is enabled	QMI
KAKASHI-370	AT!IMPREF switch to Generic PRI	AT
KAKASHI-371	ERD REQ_GNSS_0605 - QMI_SWILOC_INDICATION_REGISTER	QMI
KAKASHI-372	Cannot get IP address using DHCP by mbimcli	Integration
KAKASHI-374	[GPS] [TTFF performance] GPS warm start time is invalid	GNSS
KAKASHI-375	AT!GSTATUS MM5G state <mm5gstate> <mm5gsubstate> incorrect values	AT
KAKASHI-377	[EM8695] DHCCPC can not get IP for wwan0	Integration
KAKASHI-379	Module stays in LPM during normal voltage and temperature	Thermal

KAKASHI-384	[EM86][Windows] Unable to execute AT command after idle 10 seconds when set USBCOMP Modem port only	AT
KAKASHI-385	Firmware crash on FW 00.01.04	QMI
KAKASHI-390	[Linux] MBPL R42 ramdump tool failure by using FW_V00.01.06.00	MBPL
KAKASHI-392	AT+CLAC implement in Modem code	AT
KAKASHI-393	AT!SWIFOTA implementation	AT
KAKASHI-396	[Linux] MBPL SDK 42 Integration failure due to error in compilation	Integration
KAKASHI-398	[Linux][MBPL]DMS_SWI_SET_CRASH_ACTION_0 does not work	QMI
KAKASHI-400	[Linux][MBPL]MBPL_ "Get Crash Action" does not update the correct status after changing the AT!eroption to 0 - USB Memory Download	AT
KAKASHI-403	[EM86][AT CMD] AT!IMAGE?1,0 did not return OK	AT
KAKASHI-404	[EM86][AT CMD] The CCID contains a non-numeric character	AT
KAKASHI-407	[EM86][AT CMD] AT!IMPREF? incorrect reply format	AT
KAKASHI-408	[EM86][AT CMD] AT!GPSAUTOSTART? missing current time information	AT
KAKASHI-414	[EM86][AT CMD] AT!USBSPEED=? reply format is incorrect	AT
KAKASHI-419	[EM86][QMI] Fail to set crash action	QMI
KAKASHI-421	[EM86][QMI] QMI Device Rev ID reply format is incorrect	QMI
KAKASHI-422	[EM86][QMI] AT!RESET get type '0', not '2'	AT
KAKASHI-423	[EM86][QMI] AT+CFUN=1,1 get type '0', not '2'	AT
KAKASHI-424	[EM86][QMI] relay off / on, not '2'	QMI
KAKASHI-425	[EM86][QMI] GET_CRASH_INFO_0000 case failed	QMI
KAKASHI-426	[EM86][QMI] QTI_INT_QMI_GET_DEVICE_HARDWARE_REV_0000 failed, hardware Rev not contained in FSN	QMI
KAKASHI-427	[EM86][QMI] QMI_GET_DEVICE_SERIAL_NUMBERS_0000 Failed, invalid literal for int() with base 16: '0x'	QMI
KAKASHI-428	[EM86][QMI] Failed to enable Event Report for W_DISABLE	QMI
KAKASHI-429	[EM86][QMI] Operating mode is not Persistent LPM	QMI
KAKASHI-430	[EM86][QMI] Operating mode mismatch after reset	QMI
KAKASHI-431	[EM86][QMI] HW controlled TLV missing	QMI
KAKASHI-432	[EM86][QMI] QMI_DMS_SWI_GET_RESET_INFO_0000 failed	QMI
KAKASHI-433	[EM86][QMI] Indication was not received within the timeout	QMI
KAKASHI-435	[EM86][QMI] QMI_NAS_GET_HOME_NETWORK_0000 failed	QMI
KAKASHI-436	[EM86][QMI] Unable to parse temperature from AT!PCTEMP	QMI
KAKASHI-437	[EM86][QMI] Fail to use QMI object to set DHCPRELAYENABLE custom feature	QMI
KAKASHI-440	[EM86][QMI] "DeleteAssistData ret:\s(\d) Mask: 0x\w+" is not returned in output	QMI
KAKASHI-441	[EM86][QMI] "SwiLocIndicationRegister ret:\s(\d) Mask: 0x\w+" is not returned in output	QMI
KAKASHI-445	[EM86][MBPL] WWAN 1071 - Invalid/unknown QMI command specified	MBPL
KAKASHI-446	[EM86][MBPL] QTI_INT_MBPL_WDS_0002 Unexpected header response	MBPL
KAKASHI-447	[EM86][MBPL] QTI_INT_MBPL_WDS_0003 Menu selection failed	MBPL
KAKASHI-448	[EM86][MBPL] QTI_INT_MBPL_WDS_0004 - WWAN 1074 - Information element is unavailable at this point	MBPL
KAKASHI-449	[EM86][MBPL] QTI_INT_MBPL_WDS_0005 - WWAN 1071 - Invalid/unknown QMI command specified	MBPL
KAKASHI-450	[EM86][MBPL] QTI_INT_MBPL_WDS_0006, WWAN 1071 - Invalid/unknown QMI command specified	MBPL

KAKASHI-451	[EM86][MBPL] QTI_INT_MBPL_WDS_0008, Menu selection failed	MBPL
KAKASHI-454	[EM86][MBPL] QTI_INT_MBPL_WDS_0018, Menu selection failed	MBPL
KAKASHI-455	[EM86][MBPL] QTI_INT_MBPL_WDS_0019, Unexpected header response	MBPL
KAKASHI-456	[EM86][MBPL] QTI_INT_MBPL_WDS_0021, Menu selection response failed	MBPL
KAKASHI-457	[EM86][MBPL] QTI_INT_MBPL_WDS_0024/0022, Menu selection response failed	MBPL
KAKASHI-458	[EM86][MBPL] QTI_INT_MBPL_WDS_0029, WWAN 1003 - Unexpected error occurred during processing	MBPL
KAKASHI-459	[EM86][AT CMD] ComException: OK didn't return after AT!GPSSTATUS?	AT
KAKASHI-467	[EM86][MBPL] QTI_INT_MBPL_NAS_0005 'NoneType' object has no attribute 'decode'	QMI
KAKASHI-469	[EM86][MBPL] QTI_INT_MBPL_NAS_0008 Parse PLMN short name failed	QMI
KAKASHI-470	OEM PRI recovery	OEMPRI
KAKASHI-473	Modem OEMPRI implementation	OEMPRI
KAKASHI-476	[MBPL] R42 QMI_DMS_SWI_DYING_GASP_STATISTICS_GET / QMI_DMS_SWI_DYING_GASP_STATISTICS_CLEAR feature support need in lite-qmi-dms	MBPL
KAKASHI-480	QMI_NAS_INDICATION_REGISTER- Segmentation fault when add EDRX ind	QMI
KAKASHI-482	QMI_DMS_SWI_GET_CRASH_INFO return value is not correct	QMI
KAKASHI-485	[EM86][QMI] Unable to correctly parse impref output	QMI
KAKASHI-490	[EM86][AT CMD] QTI_INT_AT_SMSWAKE_0004, ['ERROR'] didn't return after AT!SMSWAKE=1,000,00,1 is sent	AT
KAKASHI-493	[EM86][AT CMD] AT!IMAGE?2,1 Fail to get max number of PRI images, assert 'Max PRI images: 50' in 'AT!IMAGE?2,1\r\r\nMax PRI images: 25\r\n\r\nOK'	AT
KAKASHI-494	[EM86][MBPL] QTI_INT_MBPL_LOC_0013 Menu selection failed	MBPL
KAKASHI-499	[EM86][QMI] QTI_INT_QMI_DMS_SET_OPERATING_MODE_0002[DmsOpMode.LPM], Qmux Transport Initialize failed	QMI
KAKASHI-501	[EM86][AT CMD] QTI_INT_AT_DIAG_DISABLED_0000[_unlock_level_1] failed, DID NOT RAISE (<class 'diaglib.diag_exceptions.EmptyResponse'>, <class 'diaglib.diag_exceptions.AccessDenied'>)	AT
KAKASHI-502	[EM86][AT CMD] QTI_INT_AT_DIAG_DISABLED_0000[_unlock_level_2] failed, DID NOT RAISE (<class 'diaglib.diag_exceptions.EmptyResponse'>, <class 'diaglib.diag_exceptions.AccessDenied'>)	AT
KAKASHI-503	[EM86][AT CMD] QTI_INT_AT_DIAG_DISABLED_0000[_unlock_level_3] failed, DID NOT RAISE (<class 'diaglib.diag_exceptions.EmptyResponse'>, <class 'diaglib.diag_exceptions.AccessDenied'>)	AT
KAKASHI-504	[EM86][AT CMD] QTI_INT_AT_DIAG_CUST_0000, Failed to set DIAGENABLE to 0x00	AT
KAKASHI-506	[EM86][AT CMD] QTI_INT_AT_DIAG_CUST_0000[NVCustdiag.ENABLE_LOG-_unlock_level_2], Failed to set DIAGENABLE to 0x01	AT
KAKASHI-507	[EM86][MBPL] QTI_INT_MBPL_USB_0003, ComException: [Errno 9] Bad file descriptor	QMI
KAKASHI-508	[EM86][MBPL] QTI_INT_MBPL_USB_0005, ComException: [Errno 9] Bad file descriptor	QMI
KAKASHI-509	[EM86][MBPL] QTI_INT_MBPL_USB_0007, Cannot parse mode from AT!GSTATUS?	QMI
KAKASHI-510	[EM86][AT CMD] QTI_INT_ATUSBCOMP_0003, Missing USBCOMP header	AT
KAKASHI-513	[EM86][AT CMD] QTI_INT_AT_PCINFO_0003, ['OK'] didn't return after AT!PCTEST=0,2 is sent	AT
KAKASHI-516	[EM86][AT CMD] QTI_INT_AT_GPSSTATUS_0004, ['OK'] didn't return after AT!GPSSTATUS?	AT
KAKASHI-527	[EM86][AT CMD] QTI_INT_AT_VERINFO_0001, AT!9 reply information is incorrect	AT

KAKASHI-528	[EM86][AT CMD] Device did not power down in allowed time	AT
KAKASHI-529	QMI_NAS_SWI_GET_ANTENNA_SIG_INFO - LTE Rx info is available even under NR environment	QMI
KAKASHI-530	[EM8695] at+cgdcont? return error when SIM is not insert	AT
KAKASHI-531	[EM8695] PDP profile 1 and profile2 was not able to delete	AT
KAKASHI-533	[EM8695] Get Serving System API failed	QMI
KAKASHI-534	QMI_WDS_SWI_GET_PROFILE_SNSSAI: Unpack TLV error, length mismatch	QMI
KAKASHI-535	[AT] AT!SDPREF returns wrong syntax	AT
KAKASHI-536	SLQSQosGlobalQosFlow_ind and SLQSSetQosEventCallback_ind verification	QMI
KAKASHI-538	[EM86][AT CMD] QTI_INT_AT_HWID_0001, AT!HWID=? return ERROR	AT
KAKASHI-539	[EM86][AT CMD] QTI_INT_AT_VERINFO_0003, AT!RESET return ERROR	AT
KAKASHI-540	[EM86][AT CMD] QTI_INT_AT_GPSAUTOSTART_0000, AT!GPSAUTOSTART enablement command failed	AT
KAKASHI-541	[EM86][AT CMD] QTI_INT_AT_GPSAUTOSTART_0001, AT!GPSAUTOSTART? return ERROR	AT
KAKASHI-543	[EM86][AT CMD] QTI_INT_AT_IMPREF_0000, AT!IMPREF? return ERROR	AT
KAKASHI-544	[EM86][MBPL] QTI_INT_MBPL_NAS_0004, list index out of range	QMI
KAKASHI-545	[EM86][MBPL] QTI_INT_MBPL_NAS_0007, Unexpected header response	QMI
KAKASHI-546	[EM86][MBPL] QTI_INT_MBPL_NAS_0010, Unexpected header response	QMI
KAKASHI-547	[EM86][AT CMD] QTI_INT_AT_SIMDETPOL_0005, expected return ERROR when input AT!SIMDETPOL=?1	AT
KAKASHI-548	[EM86][AT CMD] QTI_INT_ATUSBMANUFACTURER_0000, AT!USBMANUFACTURER? return ERROR	AT
KAKASHI-549	[EM86][AT CMD] QTI_INT_ATUSBMANUFACTURER_0002, AT!USBMANUFACTURER=? return ERROR	AT
KAKASHI-550	[EM86][AT CMD] QTI_INT_ATUSBMANUFACTURER_0004, AT!USBMANUFACTURER? return ERROR	AT
KAKASHI-551	[EM86][AT CMD] QTI_INT_ATUSBPRODUCT_0000, AT!USBPRODUCT? return ERROR	AT
KAKASHI-552	[EM86][AT CMD] QTI_INT_ATUSBVERSION_0000, AT!USBVERSION? return ERROR	AT
KAKASHI-553	[EM86][AT CMD] QTI_INT_ATUSBVID_0002, AT!USBVID=? return ERROR	AT
KAKASHI-554	[EM86][MBPL] QTI_INT_MBPL_WDS_0010, OK didn't return after AT+CFUN=1 is sent	AT
KAKASHI-555	[EM86][MBPL] QTI_INT_MBPL_WDS_0011, OK didn't return after AT+CFUN=1 is sent	AT
KAKASHI-557	[EM86][AT CMD] QTI_INT_ATandV_0000, AT&V output is incorrect	AT
KAKASHI-565	QMI_DMS_SWI_DYING_GASP_STATISTICS_GET / QMI_DMS_SWI_DYING_GASP_STATISTICS_CLEAR test command implement	QMI
KAKASHI-566	Abnormal RSSI value of QMI_NAS_SWI_NR5G_CELL_INFO	QMI
KAKASHI-568	[EM86][AT CMD] QTI_INT_QMI_DMS_SWI_GET_CRASH_INFO_0002, at!usbcomp=1,1,0000100B return ERROR	AT
KAKASHI-569	[EM86][AT CMD] QTI_INT_QMI_WDS_SWI_PROFILE_CHANGE_IND_0000, OK didn't return after AT+CGDCONT=4	AT
KAKASHI-572	[EM86][AT CMD] AT+CFUN did not return OK after max retries=3	AT
KAKASHI-573	[EM86][AT CMD] QTI_INT_AT_GSTATUS_0002,QTI_INT_AT_GSTATUS_WITH_QMI_0000/0001/0002, NW registration AT+CEREG=2 failed after maximum retries	AT

KAKASHI-575	[EM86][AT CMD] QTI_INT_AT_GPSAUTOSTART_0004,QTI_INT_AT_GPSSTATUS_0000/0001/0002/0003, ['OK'] didn't return after AT!GPSEND=0,255	AT
KAKASHI-576	[EM86][AT CMD] QTI_INT_AT_GPSMOMETHOD_0001, Failed to reset	AT
KAKASHI-577	[EM86][AT CMD] QTI_INT_AT_GPSTRANSSEC_0003, Failed to reset	AT
KAKASHI-578	[EM86][MBPL] QTI_INT_MBPL_LOC_0012, fail to start lite-qmi-loc sample apps	QMI
KAKASHI-579	[EM86][MBPL] QTI_INT_MBPL_LOC_0014/0015, list index out of range	QMI
KAKASHI-580	[EM86][MBPL] QTI_INT_MBPL_NAS_0003, Fail to use QMI to set system selection preference	QMI
KAKASHI-581	[EM86][MBPL] QTI_INT_MBPL_NAS_0005/0008, Fail to query COPS value	QMI
KAKASHI-582	[EM86][AT CMD] AT!UIMS? syntax error	AT
KAKASHI-583	[EM86][AT CMD] AT!USBCOMP? return ERROR	AT
KAKASHI-584	[EM86][AT CMD] AT!USBVID? return ERROR	AT
KAKASHI-586	[EM86][AT CMD] QTI_INT_MBPL_USB_0004, ['OK'] didn't return after AT+CFUN=5	AT
KAKASHI-587	[EM86][AT CMD] AT+CGDCONT? execution failed	AT
KAKASHI-588	Abnormal result in QMI_DMS_GET_DEVICE_CAPS	QMI
KAKASHI-589	[GNSS SUPL][Lab cert AT command] Manage network initiated notifications	AT
KAKASHI-590	ERD REQ_GNSS_0306 - AT!GNSSDPOMODE	AT
KAKASHI-591	ERD REQ_GNSS_0314 - AT!GPSLOCREPORT	AT
KAKASHI-592	ERD REQ_GNSS_0303 - AT!CUSTOM="GPSREFLOC"	AT
KAKASHI-593	AT!NRINFO: Wrong Tx Power/DL ARFCN/UL ARFCN	AT
KAKASHI-594	[EM86][ETWS] SendSmsAsync doesn't work	QMI
KAKASHI-595	[EM86][QMI] Unable to parse original selrat value	QMI
KAKASHI-597	[AT] MCC shows hexadecimal values in AT!LTEINFO	AT
KAKASHI-600	MBPL GetAntennaSigInfo: LteRXSigInfo should named by Sub6RxSigInfo	QMI
KAKASHI-601	[EM86][AT CMD] AT!PCVOLTLIMITS? reply format is incorrect	AT
KAKASHI-602	[EM86][AT CMD] AT!PATEMPLIMITS? reply format is incorrect	AT
KAKASHI-603	[EM86][AT CMD] AT!PCTEMPLIMITS? reply format is incorrect	AT
KAKASHI-604	MFR value from QMI and AT command should be from the same source NV (NV_UNDP_HSU_MFGSTR_I)	QMI
KAKASHI-605	[EM8695][MBPL]Setting the module to offline mode cannot be switched back to normal mode	MBPL
KAKASHI-606	[EM86][AT CMD] After entering AT!TMCONFIG with incomplete parameter, DUT crash	AT
KAKASHI-607	[Windows] Host-Based Image Switching - Auto SIM-FW matching	Windows
KAKASHI-608	Linux - Modem-based Auto SIM match	Firmware
KAKASHI-609	Debug method for atfwd_daemon service	AT
KAKASHI-610	Cannot export pcap log from QXDM	LwM2M
KAKASHI-611	[EM86][AT CMD] AT+VTS=0 will return ERROR	AT
KAKASHI-612	[EM86][AT CMD] AT+CLVL doesn't work	AT
KAKASHI-613	[EM86][AT CMD] AT+VTD doesn't work	AT
KAKASHI-614	[EM86][AT CMD] AT+CSQ doesn't work	AT
KAKASHI-615	[EM86][AT CMD] Failed to make MO/MT call	AT
KAKASHI-617	[EM86] After entering LPM, unplugging and re-plugging the USB cable (with an external charger connected) will automatically exit LPM and switch to online mode.	Integration

10 Firmware Release 0.25 SWIX35C_00.01.06.00

Release 0.25 for EM8695 PV sample upgrade version.

10.1 Firmware Release Description

10.1.1 Firmware Release Identification

Table 36. Firmware Release Identification – Release 0.25

Component	Details
Firmware Version	SWIX35C_00.01.06.00
Date of generation (UTC)	2024/12/07
IMEI SV	N/A
GSMA TS.25	2024.10.21
Chipset Vendor Stack Version	Kuno.LE.1.0-00405-NBOOT.NEFS.M2.PROD-1
Supported HW	EM8695

10.1.2 Carrier Packages

Table 37. Carrier Packages – Release 0.25

Carrier	Firmware	Configuration	Comment
Approved			
Test			
Generic	SWIX35C_00.01.06.00	000.001_000	
Verizon	SWIX35C_00.01.06.00	000.001_000	
AT&T	SWIX35C_00.01.06.00	000.001_000	
TMO	SWIX35C_00.01.06.00	000.001_000	

10.1.3 Host Software Versions

The following tools were validated against this release.

Note: Semtech recommends upgrading to newer Host Software releases when available. Refer to applicable software release notes for any compatibility restrictions.

Table 38. Validated Host Software Tools

SW Tools Name	Version
Windows Driver	8695.000.000 (for firmware update only)
FDTL (Firmware download tool Linux)	V4.2.0

10.1.4 Software Changes

Table 39. Software Changes – Release 0.25

ID	Description	Impacted Domains
KAKASHI-349	[EM86][AT CMD] After enter AT!DAFTMACT, DUT hang	AT
KAKASHI-347	<duty_cycle> in AT!DATXCONTROL doesn't work	AT
KAKASHI-339	ADB should not be enabled on device if device is level 2 unlocked	AT
KAKASHI-338	AT!GPSAUTOSTART syntax issue	AT
KAKASHI-337	AT!ENTERCND does not return ERROR if locked	AT
KAKASHI-331	AT!TMDISCONFIG doesn't work	AT
KAKASHI-324	Firmware update failure when downloading to slot_3	FW update
KAKASHI-319	DUT reboots once when carrier switch	FW update
KAKASHI-311	[EM86][AT CMD] When set !CUSTOM USBSERIALENABLE to 3, it replied ERROR	AT
KAKASHI-310	[EM86][AT CMD] AT!DGSMSCONTENT If the input is more than 160 characters, then check the SMS content, it becomes empty	AT
KAKASHI-309	[EM86][AT CMD] AT!DGSMSCONTENT If input more than 160 characters, it will still respond with 'OK'	AT
KAKASHI-308	[EM86][AT CMD] AT!DGSMSCONTENT can work without entering password	AT
KAKASHI-299	[EM86][AT CMD] AT!LEDPATTERN parameter usage is different from AT command guide	AT
KAKASHI-298	[EM86][AT CMD] AT!RFDEVSTATUS behavior is different from AT command guide	AT
KAKASHI-297	[EM86][AT CMD] AT!RXDEN behavior is different from AT command guide	AT
KAKASHI-296	[EM86][AT CMD] AT!ICCID behavior is different from AT command guide	AT
KAKASHI-295	[EM86][AT CMD] After setting AT!EROPTION=0, DUT still restarts instead of entering USB download mode after a force crash	AT
KAKASHI-294	[EM86][AT CMD] Unable to set password by AT!SETCND	AT
KAKASHI-293	[EM86][AT CMD] When set AT!SMSWAKE=0, then set to 1, sometimes DUT crash	AT

KAKASHI-292	[EM86][AT CMD] After entering AT!LEDPATTERN with incomplete parameter, DUT crash	AT
KAKASHI-289	CQI information is unavailable in QMI_NAS_GET_CQI	QMI
KAKASHI-288	QMI_NAS_GET_TX_RX_INFO is not working	QMI
KAKASHI-280	Phase#2.5 AT Command and QMI List	AT/QMI
KAKASHI-272	M2_WAKE_ON_WWAN_N pin can't normally trigger	Host Integration
KAKASHI-271	Wake on "specific SMS Formatting" wake-up can't normally work	AT

10.1.5 Known Issues

Note: This section reflects known issues in Release 0.25 as of the Date of Generation UTC) indicated in the Release 0.25 Release Identification section above.

Table 40. Known Issues – Release 0.25

ID	Description	Impacted Domains
KAKASHI-348	AT!CUSTOM? syntax issue	AT
KAKASHI-346	<GetOfflineReason> in QMI_DMS_GET_OPERATING_MODE doesn't work	QMI
KAKASHI-345	DataLoopback <sys mode> doesn't work	AT
KAKASHI-344	AT!UIMS=3 doesn't work	AT
KAKASHI-342	AT! command returns wrong syntax	AT
KAKASHI-336	Supported AT commands are missing from AT+CLAC	AT
KAKASHI-334	LwM2M client is unable to connect to the server	LWM2M
KAKASHI-333	QMI_SWI_DMS_SET_HOST_INTF_COMP and QMI_SWI_DMS_GET_HOST_INTF_COMP are not working	QMI
KAKASHI-332	Wrong NR TX power/RX Chan/TX Chan information from CDM APP/QMI	AT
KAKASHI-329	High current consumption when the USB DM port is enumerated	Host Integration
KAKASHI-328	Crash when RF set radio configuration for NR5G band under FTM mode	FTM
KAKASHI-326	AT!custom="singleapnswitch",2 doesn't work	AT
KAKASHI-322	Cold start TTFB is longer than expected	GNSS
KAKASHI-318	Data loopback function can't work in Windows	Modem
KAKASHI-317	AT+CPIN return SIM busy when SIM already removed	AT
KAKASHI-307	#FCPO signal graceful software reset and shutdown timing tuning	Host Integration
KAKASHI-303	AT!CUSTOM "FASTENUMEN" feature doesn't work normally.	AT
KAKASHI-285	NR TX power/RX Chan/TX Chan information are not correct	AT/QMI
KAKASHI-284	[Linux] QMI_QOS_SWI_READ_DATA_STATS is not working on EM86	QMI
KAKASHI-283	QMI_WDS_GET_CALL_DURATION is not working on EM86	QMI

11 Firmware Release 0.2 SWIX35C_00.01.04.00

Release 0.2 for EM8695 PV sample upgrade version.

11.1 Firmware Release Description

11.1.1 Firmware Release Identification

Table 41. Firmware Release Identification – Release 0.2

Component	Details
Firmware Version	SWIX35C_00.01.04.00
Date of generation (UTC)	2024/11/15
IMEI SV	N/A
GSMA TS.25	2024.10.21
Chipset Vendor Stack Version	Kuno.LE.1.0-00405-NBOOT.NEFS.M2.PROD-1
Supported HW	EM8695

11.1.2 Carrier Packages

Table 42. Carrier Packages – Release 0.2

Carrier	Firmware	Configuration	Comment
Approved			
Test			
Generic	SWIX35C_00.01.04.00	000.001_000	Initial version
Verizon	SWIX35C_00.01.04.00	000.001_000	Initial version
AT&T	SWIX35C_00.01.04.00	000.001_000	Initial version
TMO	SWIX35C_00.01.04.00	000.001_000	Initial version

11.1.3 Host Software Versions

The following tools were validated against this release.

Note: Semtech recommends upgrading to newer Host Software releases when available. Refer to applicable software release notes for any compatibility restrictions.

Table 43. Validated Host Software Tools

SW Tools Name	Version
FDTL (Firmware download tool Linux)	V4.2.0

11.1.4 Software Changes

Table 44. Software Changes – Release 0.2

ID	Description	Impacted Domains
KAKASHI-165	Wake on SMS	MRD
KAKASHI-129	W_DISABLE	MRD
KAKASHI-218	Data loopback	MRD
KAKASHI-137	GNSS antenna support	MRD
KAKASHI-64	Public Safety 3GPP Features	MRD
KAKASHI-279	Phase#2 AT Command and QMI List	MRD
KAKASHI-121	Dying gasp	MRD
KAKASHI-163	FW update	MRD
KAKASHI-135	L1 & L5 GNSS Support	MRD
KAKASHI-156	Standalone GNSS	MRD
KAKASHI-203	Thermal mitigation feature	MRD
KAKASHI-37	Auto SIM FW switching	MRD
KAKASHI-205	Network diagnostics	MRD
KAKASHI-208	Modem diagnostics	MRD
KAKASHI-200	DHCP Relay Feature	MRD
KAKASHI-76	SKU configuration	MRD
KAKASHI-5	GNSS device driver for Windows	MRD
KAKASHI-59	ETWS	MRD
KAKASHI-49	5G NR DL throughput	MRD
KAKASHI-51	5G NR UL throughput	MRD
KAKASHI-25	CMAS	MRD
KAKASHI-57	Modulation	MRD
KAKASHI-42	LTE DL throughput	MRD
KAKASHI-33	LTE UL throughput	MRD
KAKASHI-273	W_DISABLE# (M2 pin 8) low active didn't trigger LPM mode.	GPIO
KAKASHI-272	M2_WAKE_ON_WWAN_N pin can't be normally triggered	GPIO
KAKASHI-267	AT!GPSCLRASSIST	GNSS
KAKASHI-274	GPS_DISABLE# (M2 pin 26) low active didn't trigger GPS disable.	GPIO

KAKASHI-157	3GPP	MRD
KAKASHI-278	Phase#1 AT Command and QMI List	MRD
KAKASHI-16	LED blink pattern	MRD
KAKASHI-160	IPv4v6 dual stack compliant	MRD
KAKASHI-166	Multiple PDN	MRD
KAKASHI-159	DSSS	MRD
KAKASHI-148	SIM hot swap	MRD
KAKASHI-158	IPv6	MRD
KAKASHI-85	Customizable product and device interface names	MRD
KAKASHI-141	USB composition	MRD
KAKASHI-119	Support RmNet USB Interface	MRD
KAKASHI-13	USB selective suspend	MRD
KAKASHI-115	PV units to be FW upgradable	MRD
KAKASHI-89	Windows 10 & 11 dual SIM	MRD
KAKASHI-112	B39 sXGP range for Japan	MRD
KAKASHI-194	libQMI	MRD
KAKASHI-140	USB VID/PID	MRD
KAKASHI-209	Module power down	MRD
KAKASHI-193	USB 2.0	MRD
KAKASHI-100	Poweroff timing	MRD

11.1.5 Known Issues

Note: This section reflects known issues in Release 0.2 as of the Date of Generation (UTC) indicated in the Release 0.2 Release Identification section above.

Table 45. Known Issues – Release 0.2

ID	Description	Impacted Domains
KAKASHI-271	Wake on "specific SMS Formatting" wake-up can't normally work	AT
KAKASHI-272	M2_WAKE_ON_WWAN_N pin can't normally trigger	Host Integration
KAKASHI-280	Phase#2.5 AT Command and QMI List	AT/QMI
KAKASHI-283	QMI_WDS_GET_CALL_DURATION is not working on EM86	QMI
KAKASHI-284	QMI_QOS_SWI_READ_DATA_STATS is not working on EM86	QMI
KAKASHI-285	NR TX power/RX Chan/TX Chan information are not correct	AT/QMI
KAKASHI-288	QMI_NAS_GET_TX_RX_INFO is not working	QMI
KAKASHI-289	CQI information not available from QMI_NAS_GET_CQI	QMI
KAKASHI-292	[EM86][AT CMD] After entering AT!LEDPATTERN with incomplete parameter, DUT crash	AT
KAKASHI-293	[EM86][AT CMD] When set AT!SMSWAKE=0, then set to 1, sometimes DUT crash	AT
KAKASHI-294	[EM86][AT CMD] Unable to set password by AT!SETCND	AT

KAKASHI-295	[EM86][AT CMD] After setting AT!EROPTION=0, DUT still restarts instead of entering USB download mode after a force crash	AT
KAKASHI-296	[EM86][AT CMD] AT!ICCID behavior is different from AT command guide	AT
KAKASHI-297	[EM86][AT CMD] AT!RXDEN behavior is different from AT command guide	AT
KAKASHI-298	[EM86][AT CMD] AT!RFDEVSTATUS behavior is different from AT command guide	AT
KAKASHI-299	[EM86][AT CMD] AT!LEDPATTERN parameter usage is different from AT command guide	AT
KAKASHI-308	[EM86][AT CMD] AT!DGSMSCONTENT can work without entering password	AT
KAKASHI-309	[EM86][AT CMD] AT!DGSMSCONTENT If input more than 160 characters, it will still respond with 'OK'	AT
KAKASHI-310	[EM86][AT CMD] AT!DGSMSCONTENT If the input is more than 160 characters, then check the SMS content, it becomes empty	AT
KAKASHI-311	[EM86][AT CMD] When set !CUSTOM USBSERIALENABLE to 3, it replied ERROR	AT
KAKASHI-319	DUT reboots once when carrier switch	FW update
KAKASHI-324	Firmware update failure when downloading to slot_3	FW update
KAKASHI-331	AT!TMDISCONFIG doesn't work	AT
KAKASHI-337	AT!ENTERCND does not return ERROR if locked	AT
KAKASHI-338	AT!GPSAUTOSTART syntax issue	AT
KAKASHI-339	ADB should not be enabled on device if device is level 2 unlocked	AT
KAKASHI-347	<duty_cycle> in AT!DATXCONTROL doesn't work	AT
KAKASHI-349	[EM86][AT CMD] After enter AT!DAFTMACT, DUT hang	AT

12 Related Documentation

Please contact your Semtech/Sierra Wireless representatives for module resources, including firmware packages, release notes, tools, and other product documentation

Table 46. Reference Documents

Reference Document	Document #
[1] EM8695 AT Command Reference	41114815
[2] EM8695 Product Technical Specification	41114813

13 Abbreviations and Definitions

Table 47. Abbreviations and Acronyms

Abbreviation / Acronym	Definition
CVE	Common Vulnerabilities and Exposures
DV	Design Verification
FDT	Firmware Download Tool
FTM	Factory Test Mode
QMI	Qualcomm MSM Interface Qualcomm Modem Interface