1. Safety Precautions



1-1. Repair Precaution

Before attempting any repair or detailed tuning, shield the device from RF noise or static electricity discharges.

Use only demagnetized tools that are specifically designed for small electronic repairs, as most electronic parts are sensitive to electromagnetic forces.

Use only high quality screwdrivers when servicing products. Low quality screwdrivers can easily damage the heads of screws.

Use only conductor wire of the properly gauge and insulation for low resistance, because of the low margin of error of most testing equipment.

We recommend 22-gauge twisted copper wire.

Hand-soldering is not recommended, because printed circuit boards (PCBs) can be easily damaged, even with relatively low heat. Never use a soldering iron with a power rating of more than 100 watts and use only lead-free solder with a melting point below 250°C (482°F).

Prior to disassembling the battery charger for repair, ensure that the AC power is disconnected. Always use the replacement parts that are registered in the SEC system. Third-party replacement parts may not function properly.



1-2. ESD(Electrostatically Sensitive Devices) Precaution

Many semiconductors and ESDs in electronic devices are particularly sensitive to static discharge and can be easily damaged by it. We recommend protecting these components with conductive anti-static bags when you store or transport them.

Always use an anti-static strap or wristband and remove electrostatic buildup or dissipate static electricity from your body before repairing ESDs.

Ensure that soldering irons have AC adapter with ground wires and that the ground wires are properly connected.

Use only desoldering tools with plastic tips to prevent static discharge.

Properly shield the work environment from accidental electrostatic discharge before opening packages containing ESDs.

The potential for static electricity discharge may be increased in low humidity environments, such as air-conditioned rooms. Increase the airflow to the working area to decrease the chance of accidental static electricity discharges.



2-1. GSM General Specification

lte	em	GSM 850	EGSM 900	DCS1800	PCS1900
Freq. Ba	ind[MHz]	824~849	880~915	1710~1785	1850~1910
Uplink/E	Downlink	869~894	925~960	1805~1880	1930~1990
ARFC	V range	128~251	0~124 & 975~1023	512~885	512~810
Tx/Rx s	spacing	45MHz	45MHz	95MHz	80MHz
Mod. E	Bit rate/	270.833kbps	270.833kbps	270.833kbps	270.833kbps
Bit P	eriod	3.692us	3.692us	3.692us	3.692us
Time Slot Period/		576.9us	576.9us	576.9us	576.9us
Frame	Period	4.615ms	4.615ms	4.61505	4.615ms
	GSM/	GMSK/	GMSK/	GMSK/	GMSK/
Modulation	EGPRS	8PSK	8PSK	8PSK	8PSK
MS F	ower	33dBm~5dBm	33dBm~5dBm	30dBm~0dBm	30dBm~0dBm
		4(GMSK)	4(GMSK)	1(GMSK)	1(GMSK)
Power	Class	E2(8PSK)	E2(8PSK)	E2(8PSK)	E2(8PSK)
Sensitivity		-102dBm	-102dBm	-100dBm	-100dBm
TDM	A Mux	8	8	8	8



2-2. WCDMA General Specification

Item	WCDMA 2100(B1)	WCDMA 800(B19)	WCDMA 800(B6)	WCMDA 850(B5)
Freq. Band[MHz]	1922.4~1977.6	830~845	830~840	826.4~846.6
Uplink/Downlink	2112.4~2167.6	875~890	875~885	871.4~891.6
	UL:	UL:	UL:	UL:
	9612~9888	312~363	4162~4188	4132~4233
ARFCN range	DL:	DL:	DL:	DL:
	10562~10838	712~763	4387~4413	4357~4458
Tx/Rx spacing	190MHz	45MHz	45MHz	45MHz
Mod. Bit rate/	14.4Mbps(DL)	14.4Mbps(DL)	14.4Mbps(DL)	14.4Mbps(DL)
Bit Period	5.76Mbps(UL)	5.76Mbps(UL)	5.76Mbps(UL)	5.76Mbps(UL)
	WCDMA	WCDMA	WCDMA	WCDMA
Time Slot Period/	10ms/0.667ms	10ms/0.667ms	10ms/0.667ms	10ms/0.667ms
Frame Period	HSPA	HSPA	HSPA	HSPA
	2ms/0.667ms	2ms/0.667ms	2ms/0.667ms	2ms/0.667ms
	QPSK	QPSK	QPSK	QPSK
	HPSK	HPSK	HPSK	HPSK
Modulation	16QAM	16QAM	16QAM	16QAM
	64QAM	64QAM	64QAM	64QAM
MS Power	24 d B m ~	24dBm~	24dBm~	24dBm~
(dBm)	- 50 d B m	-50dBm	- 50 d B m	- 50 d B m
Power Class	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)
Sensitivity	-106.7dBm	-106.7dBm	-106.7dBm	-104.7dBm



2-3. LTE General Specification

Item	LTE FDD B1	LTE FDD B3
Tx Freq. range	1920~1980 MHz	1710~1785 MHz
Rx Freq. range	2110~2170 MHz	1805~1880 MHz
Channel Bandwidth	5, 10,15, 20 MHz	1.4, 3, 5, 10,15, 20 MHz
Duplex Separation	90MHz	95MHz
Modulation	Uplink DCM : QPSK/16QAM KDDI : QPSK/16QAM/64QAM Downlink DCM : QPSK/16QAM/64QAM/256QAM KDDI : QPSK/16QAM/64QAM/256QAM	Uplink DCM : QPSK/16QAM KDDI : QPSK/16QAM/64QAM Downlink DCM : QPSK/16QAM/64QAM/256QAM KDDI : QPSK/16QAM/64QAM/256QAM
MS Power	-40dBm~ 25dBm	-40dBm~ 25dBm
Power Class	3 (max: 23 ±2dBm)	3 (max: 23 ±2dBm)
Sensitivity	-98 (BW:5 MHz) -95 (BW:10 MHz) -93.2 (BW:15MHz) -92 (BW:20MHz)	-98 (BW:5 MHz) -95 (BW:10 MHz) -93.2 (BW:15MHz) -92 (BW:20MHz)
Cell Radius	>5Km	>5Km
In/Output Impedance	50Ω	50Ω
Operating Temperature	-30°C ~ +60°C	-30°C ~ +60°C

2. Specification



Item	LTE FDD B19	LTE FDD B21	LTE FDD B26
Tx Freq. range	830~845 MHz	1447.9~1462.9 MHz	814~849 MHz
Rx Freq. range	875~890 MHz	1495.9~1510.9 MHz	859~894 MHz
Channel Bandwidth	5, 10, 15 MHz	5, 10, 15 MHz	5, 10, 15 MHz
Duplex Separation	45 MHz	48 MHz	45 MHz
Type of Emission	Uplink DCM : QPSK/16QAM Downlink DCM : QPSK/16QAM/64QAM/256QAM	Uplink DCM : QPSK/16QAM Downlink DCM : QPSK/16QAM/64QAM/256QAM	Uplink KDDI : QPSK/16QAM/64QAM Downlink KDDI : QPSK/16QAM/64QAM/256QAM
MS Power	-40dBm~ 25dBm	-40dBm~ 25dBm	-40dBm~ 25dBm
Power Class	3 (max: 23 ±2dBm)	3 (max: 23 ±2dBm)	3 (max: 23 ±2dBm)
Sensitivity	-98 (BW : 5 MHz) -95 (BW : 10 MHz) -93.2 (BW : 15MHz) -92 (BW : 20MHz)	-98 (BW : 5 MHz) -95 (BW : 10 MHz) -93.2 (BW : 15MHz) -92 (BW : 20MHz)	-98 (BW : 5 MHz) -95 (BW : 10 MHz) -93.2 (BW : 15MHz) -92 (BW : 20MHz)
Cell Radius	>5Km	>5Km	>5Km
In/Output Impedance	50Ω	50Ω	50Ω
Operating Temperature	-30℃ ~ +60℃	-30℃ ~ +60℃	-30℃ ~ +60℃

2. Specification



ltem	LTE FDD B28	LTE FDD B41	LTE FDD B42
Tx Freq. range	703~748 MHz	2496 ~ 2690 MHz	3400~3600 MHz
Rx Freq. range	758~803 MHz	2496 ~ 2690 MHz	3400~3600 MHz
Channel Bandwidth	5, 10, 15, 20 MHz	5, 10, 15, 20 MHz	5, 10, 15, 20 MHz
Duplex Separation	55 MHz	N/A	N/A
Type of Emission	Uplink DCM : QPSK/16QAM Downlink DCM : QPSK/16QAM/64QAM/256QAM	Uplink KDDI : QPSK/16QAM/64QAM Downlink KDDI : QPSK/16QAM/64QAM/256QAM	Uplink DCM : QPSK/16QAM KDDI : QPSK/16QAM/64QAM Downlink DCM : QPSK/16QAM/64QAM/256QAM KDDI :
MS Power	-40dBm~ 25dBm	-40dBm~ 25dBm	-40dBm~ 25dBm
Power Class	3 (max: 23 ±2dBm)	3 (max: 23 ±2dBm)	3 (max: 23 ±2dBm)
Sensitivity	-98 (BW:5 MHz) -95 (BW:10 MHz) -93.2 (BW:15MHz) -92 (BW:20MHz)	-98 (BW:5 MHz) -95 (BW:10 MHz) -93.2 (BW:15MHz) -92 (BW:20MHz)	-98 (BW:5 MHz) -95 (BW:10 MHz) -93.2 (BW:15MHz) -92 (BW:20MHz)
Cell Radius	>5Km	>5Km	>5Km
In/Output Impedance	50Ω	50Ω	50Ω
Operating Temperature	-30℃ ~ +60℃	-30℃ ~ +60℃	-30℃ ~ +60℃

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2-4. GSM Tx Power Class

TX Power control level	GSM850	TX Power control level	EGSM900	TX Power control level	DCS1800	TX Power control level	PCS1900
5	33±2 dBm	5	33±2 dBm	0	30±3 dBm	0	30±3 dBm
6	31±2 dBm	6	31±2 dBm	1	28±3 dBm	1	28±3 dBm
7	29±2 dBm	7	29±2 dBm	2	26±3 dBm	2	26±3 dBm
8	27±2 dBm	8	27±2 dBm	3	24±3 dBm	3	24±3 dBm
9	25±2 dBm	9	25±2 dBm	4	22±3 dBm	4	22±3 dBm
10	23±2 dBm	10	23±2 dBm	5	20±3 dBm	5	20±3 dBm
11	21±2 dBm	11	21±2 dBm	6	18±3 dBm	6	18±3 dBm
12	19±2 dBm	12	19±2 dBm	7	16±3 dBm	7	16±3 dBm
13	17±2 dBm	13	17±2 dBm	8	14±3 dBm	8	14±3 dBm
14	15±2 dBm	14	15±2 dBm	9	12±4 dBm	9	12±4 dBm
15	13±2 dBm	15	13±2 dBm	10	10±4 dBm	10	10±4 dBm
16	11±3 dBm	16	11±3 dBm	11	8±4 dBm	11	8±4 dBm
17	9±3dBm	17	9±3dBm	12	6±4 dBm	12	6±4 dBm
18	7±3 dBm	18	7±3 dBm	13	4±4 dBm	13	4±4 dBm
19	5±3 dBm	19	5±3 dBm	14	2±5 dBm	14	2±5 dBm
-	-	-	-	15	0±5 dBm	15	0±5 dBm

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3. Product Function



Main Function

Item	Description
OS	Android V8.0
RF	[2G] GSM 850(B5)/900(B8)/1800(B3)/1900(B2) [3G] WCDMA : B1 / B5 / B6 / B19 [4G(LTE)] - FDD : B1 / B3 / B4 / B5 / B7 / B12/ B13 /B17 / B19 / B21 / B26 / B28 - TDD : B38 / B39 / B40 / B41 / B42
Battery	3,500mAh
Base Band	SDM845 / 2.8GHz, 1.7GHz
Other RF	GPS, GLONASS, BEIDOU, GALILEO, QZSS, BT 5.0, USB 3.1, WIFI 802.11 a/b/g/n/ac (2.4G+5GHz), NFC, FeliCa, ISDBT
Camera	Dual Camera (Wide : 12M Dual A/F, OIS, F1.5-2.4 & Tele : 12M, OIS, F2.4) with LED Flash, Front : 8MP A/F (Front), 5.8MP (IRIS)
LCD	6.2" Quad HD+, 2960 x 1440, dual edge Super AMOLED
RAM	6GB LPDDR4X + 64GB UFS
Sensor	Accelerometer, Barometer, Fingerprint Sensor, Gyro Sensor, Geomagnetic Sensor, Hall Sensor, HR Sensor, Iris Sensor, Pressure Sensor, Proximity Sensor, RGB Light Sensor
Accessory	Charger : 5V/2A or 9 V/1.67 A Data cable : USB Type-C Earjack : 3.5pi, 4Pin



6-1. S/W Update

6-1-1. Preparation

- S/W Update program : Fenrir 5.17.xxxx
- Mobile Phone
- Data Cable

*** Settings**





Data Cable : GH39-01949A



6-1-2. How to use 'Fenrir' S/W update program.

1) Launch Fenrir by clicking on the icon on the desktop



- SVH (Fenrir_Home) : It uses Home binary which does not have user data area in the memory when flashed to a device. (Keep user data)

- SVC (Fenrir_Factory) : It uses Factory binary which erases all user data in the memory when flashed to a device. (Clear user data)

- SVA (Fenrir_All) : It uses Factory and Home binaries. you can download Home and Factory binary in a PC(but requires double HDD storage and NW traffic)

2) Input ID & password

X You need to reset the ID information in case of PC change and format and repair, hard disk change

ூ Fenrir		×
Input the ID and password registered to the SAMSUNG Fenrir service.	ID: Password:	
		Proxy Login Close



3) Ensure device has sufficient charge (at least 20%) to start firmware update.



- 4) Connect the device to PC via data cable.
- 5) Upon USB connection, you will be presented with below screen.

Fenrir		N 🛛 🔶 🗕 🗆 X		
Upgrade to the latest version of Samsung phone with Fenrir. Fenrir can be connected to a total of 10 phones.				
1 Connecting to phone.	3 Connect the phone to the cable.	s Connect the phone to the cable.		
	-			
2 Connect the phone to the cabl	e. Connect the phone to the cable.	6 Connect the phone to the cable.		

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6) Once device is detected, you will be presented with below screen. To update S/W, select "S/W Update" or to exit select "SVC Connection". If you select "SVC Connection", only Fenrir connection history (record) will be stored in the FUS server to support warranty validation. (This is known as "Service Connection" history)

€ Fenrir		û 🌖 – □ ×
Upgrade to th	Fenrir can be connected to a total of 10 phones.	none with Fenrir.
2 Update to the latest version D1222165300qL2 XSG (3579) Galaxy Notes (SM-N9507) Nougat(Android 71.1) Nougat(Android 71.2) Nougat(Android 71.2) No	3 Connect the phone to the cable.	Connect the phone to the cable.
2 Connect the phone to the cable.	Connect the phone to the cable.	Connect the phone to the cable.

7) Once Fenrir starts, application will display the below screen. And select the Start button & Agree button.

All data will be erased from the phone during the upgrade. Will you continue? Do not disconnect phone.	Fenrir Service terms and conditions. * Information about caution regarding data loss You are about to commence the upgrade of your mobile device software using Fenrir.All files and data on your mobile device must be backed up by you before continuing. You understand that use of Fenrir to upgrade your device's software may result in the loss of your files and data.Samsung and authorised third parties, where "Fenrir " is installed, shall not be liable for the loss of any files or data stored on your mobile device as a result of this	
< Cancel Start >	< Cancel Agree >	

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6. Level 1 Repair

8) The status circle increases as the update installs. The update process takes approximately 5-10 minutes to complete. Do not disconnect the device from USB during processing.

€ Fenrir		💷 🌖 🗕 🗆 X
Upgrade	to the latest version of Samsung pl Fenrir can be connected to a total of 10 phones.	none with Fenrir.
1 Running upgrade Do not disconnect phone. D1222165552ygx XSG 3579 Galaay Nate (SM N050F) Nougat(Android 71.1) N95070028QKG/N950F002	Connect the phone to the cable.	S Connect the phone to the cable.
2 Connect the phone to the cab	e. Connect the phone to the cable.	Connect the phone to the cable.

9) Once complete, application will present the below screen indicating update complete. Click Ok and detach device from USB.

Ə Fenrir		□ 🌖 🗕 🗆 ×
Upgrade t	to the latest version of Samsung places of the latest version of Samsung places of the second	hone with Fenrir.
1 Upgrade finished. Disconnect phone. D1222165552ygk XSG 35797 Galaxy Notee (SM-N950F) Nougat(Android 2.1.1) No507X028QKG(N950F)X0128C	Connect the phone to the cable.	S Connect the phone to the cable.
2 Connect the phone to the cable	Connect the phone to the cable.	6 Connect the phone to the cable.

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6-2. How to use 'Odin' program

S/W Update via Fenrir is mandatory.Below is the method to use 'Odin' program in any specific case.

6-2-1. Preparation

- Installation program : Odin3 v3.13.2.exe or above
- Mobile Phone
- Data Cable
- S/W Binary files (downloaded from GSPN)

※ Settings





6-2-2. S/W Installation Program (Downloader program)

Open up the S/W Installation Program by executing the "Odin3 v3.13.2.exe"

📮 Odin3 v3.13	
Odin3	
ID:COM	
Log Options Pit	Tips - How to download HOME binary OLD model : Download one binary "(BUILD_VER)_XXX_HOME.tar.md5" ex) G925FXXU3DPA5_G925FOXA3DPA5_G925FXXU3DPA5_HOME.tar.md5 NEW model : Download BL + AP + CP + HOME_CSC
	BL
	E AP
	CP CP
	CSC
	USERDATA
	Mass D/L ►
	Start Reset Exit
Odin Community : <u>http://mobilerndhub.sec.samsung.net/hub/site/od</u>	in/



- 1. Enable the check mark by click on the following options
- Check Auto Reboot, F. Reset Time, Nand Erase
- Check BL, AP, CP, CSC Files
- * Note : "Odin v3.13.2 or above" checks MD5 checksum just after file selection.

Guina v3.13	
Odin3	
ID:COM	
Log Options Pit	Tips - How to download HOME binary OLD model : Download one binary "(BUILD_VER)_XXX_HOME.tar.md5" ex) G925FXXU3DPA5_G925F0XA3DPA5_G925FXXU3DPA5_HOME.tar.md5 NEW model : Download BL + AP + CP + HOME_CSC
☑ Nand Erase ☑ Re-Partition	BL 3965FXXU1ARA9_CL12794530_QB16492725_REV01_user_low_ship.tar.md5
✓ F. Reset Time	AP XXU1ARA9_CL12794530_QB16492725_REV01_user_low_ship_meta.tar.md5
DeviceInfo Flash Lock	CP RA9_CP8641302_CL12794530_QB16492725_REV01_user_low_ship.tar.md5
Decompress Data	CSC 965FOXM1ARA9_CL12794530_QB16492725_REV01_user_low_ship.tar.md5
	USERDATA
AutoStart -	Mass D/L ►
Reboot download if possible	Start Reset Exit
Odin Community : <u>http://mobilerndhub.sec.samsung.net/hub/site/o</u>	ain/



2. Enter into Download Mode

- Enter into Download Mode by pressing Volume Down button, Intelligence button and ON/OFF Button simultaneously followed by pressing Volume up button as a direction of the phone.





3. Connect the device to PC via Data Cable.

Make sure that the one of communication ports [ID:COM] box is highlighted in sky blue. The device is now connected with the PC and ready to download the binary files in it.

Odin3 Dr.COM 0(COM8) 0(📮 Odin3 v3.13	
D:COM 0:COM6] 0:Com7] 0	Odin3	
D:COM O(COMB) ID:COM O(COMB) ID:COM ID:COMO ID:COMO ID:COMO ID:		
DJCOM 0:[COM6] 0:[COM6] Iog Options Pit Tps - How to download HOME binary OLD model : Download one binary "(BUILD_VER)_XOX_HOME.tar.md5" ex) G925FXXU3DPA5_G925FXXU3DPA5_G925FXXU3DPA5_HOME.tar.md5 COSM> Check MDS COSM> Check MDS <cosm> Check MDS Finished Sucessfully <cosm> Check MDS GeSFXXU3DPA5_G925FXXU3DPA5_G925FXXU3DPA5_G925FXXU3DPA5_G925FXXU3DPA5_G925FXXU3DPA5_G925FXXU3DPA5_G925FXXU3DPA5_G925FXXU3DPA5_G925FXXU3DPA5_HOME.tar.md5 <cosm> Check MDS Finished Sucessfully <cosm> Check MDS GOSM> Check MDS <cosm> Check MDS Finished Sucessfully <cosm> Check MDS Finished Sucessfully <cosm> Check MDS GOSM> Check MDS <cosm> Check MDS Finished Sucessfully <cosm> Check MDS GOSM> Check MDS <cosm> Check MDS Finished Sucessfully <cosm> Check MDS GOSM> Check MDS <cosm> Check MDS <t< td=""><td>The cost</td><td></td></t<></cosm></cosm></cosm></cosm></cosm></cosm></cosm></cosm></cosm></cosm></cosm></cosm></cosm></cosm></cosm></cosm>	The cost	
Log Options Pit (D:0/006 > Added!! (D:0/006 > Added!! (OSM > Enter CS for MDS (OSM > Checking MD5 finished Sucessfully (OSM > Enter CS for MDS (OSM > Checking MD5 finished Sucessfully (OSM > Enter CS for MDS (OSM > Enter CS for MDS (OSM > Enter CS for MDS (OSM > Enter CS for MDS (OSM > Enter CS for MDS (OSM > Enter CS for MDS (OSM > Enter CS for MDS (OSM > Enter CS for MDS (OSM > Enter CS for MDS (OSM > Leave CS	0:[COM6]	
	Log Options Pit <id:0 006=""> Added!! <osm> Enter CS for MDS <osm> Check MDS Do not unplug the cable <osm> Please wait <osm> Enter CS for MDS <osm> Checking MD5 finished Sucessfully <osm> Enter CS for MDS <osm> Check MDS Do not unplug the cable <osm> Enter CS for MDS <osm> Enter CS. <osm> Enter CS. <osm> Enter CS. <osm> Enter CS. <osm> Enter CS.</osm></osm></osm></osm></osm></osm></osm></osm></osm></osm></osm></osm></osm></osm></osm></osm></osm></osm></osm></osm></osm></osm></id:0>	Tips - How to download HOME binary OLD model : Download one binary "(BUILD_VER)_XXX_HOME.tar.md5" ex) G925FXXU3DPA5_G925F0XA3DPA5_G925FXXU3DPA5_HOME.tar.md5 NEW model : Download BL + AP + CP + HOME_CSC Image: BL 3965FXXU1ARA9_CL12794530_Q816492725_REV01_user_low_ship.tar.md5 Image: AP KXU1ARA9_CL12794530_Q816492725_REV01_user_low_ship_meta.tar.md5 Image: QP RA9_CP8641302_CL12794530_Q816492725_REV01_user_low_ship.tar.md5 Image: QP RA9_CP8641302_CL12794530_Q816492725_REV01_user_low_ship.tar.md5 Image: QP RA9_CP8641302_CL12794530_Q816492725_REV01_user_low_ship.tar.md5 Image: QP Reset Image: QP Start Reset Exit

4. Start downloading the binary files into the device by clicking Start button on the screen.

The green colored "PASS!" sign will appear on the upper-left box if the binary files have been successfully downloaded into the device.

📮 Odin3 v3.13		
Odin3		
PASS!		
ID:COM		
Log Options Pit <id:0 005=""> up_param.bin <id:0 005=""> cm.bin</id:0></id:0>	Tips -	 How to download HOME binary OLD model : Download one binary "(BUILD_VER)_XXX_HOME.tar.md5" ex) G925FXXU3DPA5_G925FXXA3DPA5_G925FXXU3DPA5_HOME.tar.md5 NEW model : Download BL + AP + CP + HOME_CSC
<id:0 005=""> keystorage.bin<id:0 005=""> boot.img<id:0 005=""> recovery.img<id:0 005=""> system.img</id:0></id:0></id:0></id:0>	V	BL 3965FXXU1ARA9_CL12794530_QB16492725_REV01_user_low_ship.tar.md5
<id:0 005=""> vendor.img <id:0 005=""> dqmdbg.img <id:0 005=""> userdata.ing</id:0></id:0></id:0>		AP 0XU1ARA9_CL12794530_QB16492725_REV01_user_low_ship_meta.tar.md5
<ld:0 005=""> modem.bin <ld:0 005=""> modem_debug.bin <ld:0 005=""> cache.img <ld:0 005=""> omr.img</ld:0></ld:0></ld:0></ld:0>	7	CP 045_CP0041302_CL12794530_Q010492725_REV01_user_low_ship.tar.md5 055CXM14RA9_CL12794530_Q010492725_REV01_user_low_ship.tar.md5
<id:0 005=""> odm.img <id:0 005=""> hidden.img <id:0 005=""> RQT_CLOSE !!</id:0></id:0></id:0>		USERDATA
 <id:0 005=""> REB OK !!</id:0> <id:0 005=""> Remain Port 0</id:0> <id:0 005=""> Removed!!</id:0> <osm> All threads completed. (succeed 1 / failed 0)</osm> 	E	Mass D/L ►
	•	Start Reset Exit
Odin Community : <u>http://mobilerndhub.sec.samsung.net/hub/si</u>	te/odin/	

5. Disconnect the device from the Data cable.

6. Once the device boots up, you can check the version of the binary file or name by pressing the following code in sequence; ***#1234#**

You can perform Factory data Reset by Settings \rightarrow General Management \rightarrow Reset

***** Caution. Never disconnect during the S/W downloading.



6-3. IMEI writing

6-3-1. Preparation

- New IMEI writing Program has been released.
- Supported Model : Models which CAB files are uploaded on HHPsvc INI File category, instead of ini file.
- Refer to below IMEI writing procedure.

- H/W



- S/W

1 Library Install	To use Daseul, library files should be installed. Refer to SVC Bulletin "(11-82) Daseul (New IMEI writing Program) Library Install guide_rev1.0"
2 Launcher	DASEUL_SVC_Launcher_v3.0.12 or higher -Uploaded on HHPsvc Notice
③ Runtime File	 DASEUL_IMEI_ALL_Runtime_3.1.353.0_r00528.CAB or higher -Uploaded on HHPsvc Notice Make 'ModelName' folder at the same position with launcher & Runtime file. SM-G965D_COMMON(CSC)_IMEI_Ver_3.1.350.2.CAB DASEUL_Launcher_v4.0.0.exe DASEUL_LAUNCHER_ALL_RUNTIME_3.1.353.0_r00528.CAB
4 Model File	Copy Model File under the 'Model Name' folder

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6-3-2. IMEI writing Process

1. Run DASEUL	_SVC_Launcher_v3	.0.12.exe		
🖓 DASEUL_SVO	Launcher_v3.0.12.exe			
2. Select Service	Mode		X	
< Launcher Status >	61 2.0.10	MDDE : Service		
No. Processing 1 ::: Start Normal Mode f	Status or Service ::: Complete			
- Select Extract Process-				
Runtime SMD F/T PBA F/T Galbration CAL 2nd Final Auto Final 2nd IMEI VVLAN GPS 8 T		Extract & Run	Close	
3. Click and A DASEUL Launcher for Service Ver 3.	d Select folder where	e the Launcher	exists	
< Launcher Status >	MODE :	Service -		
1 ::: Start Normal Mode for Se 1 ::: Start Normal Mode for Se E E Select Extract Process E I MODEL 1 Image: SMD F/T PBA F/T Caloration CAL 2nd D Final Auto Image: SHC F/T Final Auto Image: SHC F/T Image: SMD F/T D PBA F/T Caloration CAL 2nd D Image: SMD F/T D Image: SMD F/T Image: SMD F/T PBA F/T Caloration CAL 2nd D Image: SMD F/T Image: SMD F/T Image: SMD F/T Image: SMD F/T <t< th=""><th>Vice ::: Complete L7 Wodel Path 이웃룩 2 연무 2 안무 3 안단5077 3 mool Model name 5 OVD 드라이브 (E) 네트워크 제어판 휴지통 10 11 11 11 11 11 11 11 11 11</th><th></th><th></th><th></th></t<>	Vice ::: Complete L7 Wodel Path 이웃룩 2 연무 2 안무 3 안단5077 3 mool Model name 5 OVD 드라이브 (E) 네트워크 제어판 휴지통 10 11 11 11 11 11 11 11 11 11			
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6. Check IMEI Write / IMEI	Check and click IMEI S	/C & Repair Option.
Set System Configura	em Configuratio	on 🗵
Test Process [Master] [Slave] [Process] [Master] [Slave] SMD F/T [Master] PBA F/T [Master] Calibration [Master] Calibration 2ND [Master] Final Auto [Master] Final Auto [Master] Final Auto [Master] Final Auto [Master] IMEI Write [V] IMEI Check [V] MDL Rework [Master] IMEI Read [Master] STA Check [Master] STA Check [Master] STA Check [Master] BT [Master] WLAN [Master] Power Off-On before WLAN [Master] Bluetooth [Saster] LCIA [Master] Process Order [Master]	alibration alibration alibration alibration alibration alibration Mode: FDT AL2nd Mode: FDT AL2nd Mode: FDT AL2nd Mode: FDT FDT FDT Conduction Reset Loss Correction Count est Mode: Signaling LAN Est Mode: WLan Est Mode: Breset Breset Breset Breset	System Config. Language English Line Name LINE(temp) Line Type IPerson Cell IP Address 10.244.246.156 SKD Mode MultiSharing(CMWS) Developer Mode Advanced Separating(ADS) Operation Operation Operation Operation RUN Condition RUN Condition Model Information Hardware Config Signal Loss Config Start Number 1 Start Number 1 Start Number 1 Start Number 1 Condition RUN Condition RUN Condition RUN Condition Condition Condition Condition Condition Condition
IMEI SVC && Repair Option		
SVC User Ticket No 👻		Local FOTA Check
	Repair Board	SVC Factory Reset
Romania SVC	Argentina SKD	
Initial PGM(SVC)	Turkey	
ATT Rework	Slovakia SVC	
IMEI Clear(Factory) Outgoing Inspection Check	GED 2nd Inspection	
		OK CANCEL

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Common	No	Port #1		
BaudBate 44	200	FORTEL		
Data Bit	<u> </u>			
Parity No	<u>≍</u>			
Stop Bit 1	_			
			SAVE	
			Canaal	
			Cancer	
I.Click OK to p	oceed			
I.Click OK to p	oceed			
Click OK to p	oceed System Configurati	ion		
Click OK to p	oceed System Configurati	ion	X	
L.Click OK to p Set S Set System C	oceed System Configuration Dialog	ON System Config.	X	
I.Click OK to p Set S Set System C est Process Process] [Master] [Slav	oceed System Configuration onfiguration Dialog Test Condition Peal Configuration	ON System Config. Language English 💌	Model	
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2. Click Model Info and OK when pop-up shows	
Process IMEI Write(M) - IMEI Check(M) Service PGM Ver DASEUL v3 1 213 0 / IMEI(r00338)	
Divers 04	
Phone 01	_
Status Press [START ALL] Button!!!	
Result None	
Time 0.0 second (Averane : 0.0 second)	
Fail(%) Total Test: 0, Test Fail: 0 (Rate: 0.0%)	
UN : -	
Phone 01	
[Status] Phone01 [Result] Phone01 [Info] Phone01 [IMEI] Phone01 [Version Info] [Fail] All	9%)
IMEI Num(Slave) - - SN Num	
MEPersonal Lock	
Lock Setting Code Field	
Network UnLock Key Subset UnLock Key	_
SP UnLock Key Model Start	
Stop	
Devel	
Reset	
Auto Recipe Setting Test. Item H/W Setting Setting(Etc.) Ftc Func Data Atarm Help	
:: [One Step] :: [Machine Freq : 100 ms] [DBMS Type : Outside-WebSVC] Level : [01-Error] 🍒 🛃 💦 R 2016-07-06 16:53:22	
3. Click OK	
About ComponentOne_VSFlexGrid8 (Light)	
Component	
ComponentOne VSFlexGrid8 (Light)	
Version: 8,0,20101,261	
This dialog box will not be shown if you recompile	
the program using a licensed version of this	
Unline <u>nπp://www.componentone.com</u> <u>Check for online</u>	
Newsgroup Web store Resellers	
For email support, please write to: support.vsflex@componentone.com	
Contact Us ComponentOne Technical	
Inis product included in ComponentUne Studio(tm)	
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Writing Items				×					
CSC	M- 4 - 0421								
PDA	Model SKU	1							
Software2	Model SKU	1		=					
L PD									
Contents									
DMB									
SKU_CODE	Model SKU				11				
BUYER	Buyer Code								
Material_Code									
Boot									
Factorii Software				-					
FactoryReset+Check	MDL Rework		STA Option						
Pre Product	Main Repair		🔽 Don't DB Up	bload					
2nd Func Test (AT&T)	Sub PBA Repa	ir(Grip)	Packing Rei	work					
Lock Write (OQC)	SMD Test NV	Write	Inizen Down	DEDI					
2nd Check after Pwr Rese	WIFI Addr. In	,C	Anturola Do	Whitedu					
Use Fulltest(SW Verificatio	High Speed Bo	ot Skip	S-PEN is no	t inserted(Seed)					
Wait for Reboot in SVC Ch	eck C Recent List Ch	ack(OOCST	RT) Chack I						
Save	22 24	iecklogcon	Jul I Check I	MEI Dupli [RB]					
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Input IMEI Nu	Load	Click <i>A</i> Phone 01) .0%) Phone01 [V Vum	ersion Info] [Fail	MEI Dupli [RB]	Se Contraction of the second s	T: 0 F: SAMS	UN G ELECTRONICS	0(0.0%) Start Stop	



16. (1) Click Start \rightarrow (2)Input IMEI writing ID and Password & OTP \rightarrow (3)Input Ticket No
Model name HW Ver REVOA SKU GT-N70023ADBT IDB Serv HOME(GUM) Kell Type Block Cell
PGM Veri DASEUL_V2.2.3873.49 Process MEI Write(M) - MEI Check(M)
Phone 01
Status Press [START ALL] Button!!! Result None
Time 0.0 second (Average : 0.0 second)
Fail(%) Total Test: 0, Test Fail: 0 (Rate: 0.0%)
Phone 01 USSRD
Estatus; PhoneSUL [Inte] PhoneSUL [Inte] PhoneSUL [Inte] PASSWORD
MEVersonal Lock orp ELECTRONICS ELECTRONICS
Network United Kay 422
3 ToletNo Stor
CANCE Reset
Auro Rocoe Setting
※ OTP(One time Password) : OTP is valid for 6 hours.
After that you can get new OTP by click the "Eorgotten your IMEL OTP PW or
Crete new IMELOTP PW" button.
S H-P svc > HHP svc HOME
HHP svc DRM Client Download (for NASCA ActiveX / for NASCA 32Bit OS / for NASCA 64Bit HOME OS / for Non-NASCA 32/64Bit OS)
IMELOTP PASSWORD : Not available
Forgotten your IMELOTP PW or Create new IMELOTP PW
웹 페이지의 메시지
NEW IMEI OTP PASSWORD : SLD12HBJ







6-4. RF Calibration

6-4-1. Required items in order to calibrate RF

- Installation program: RF Calibration Program
- Daseul_Launcher_vx.x.xx.exe
- Daseul_CAL_ALL_Runtime_x.x.xxx.x.CAB
- Model File
- : SM-xxxx_OPEN_CALIBRATION_Ver_x.x.xxx.CAB

***** It is required to use the latest program.

- Mobile Phone
- R&S CMW500
- E3632A Power Supply
- GPIB Cable (2ea)
- JIG BOX (S103)
- Adapter
- UART Serial Cable
- IF Cable (GH81-11962W)

✤ Table of test cables

RF Cable (Manual)	GH81-11962M (2ea) 1.2T, 102mm	GH81-11962U (2ea) 1.2T, 102mm	
4 Port Divider	GH81-11962A	GH81-11962B	GH81-11962E
	Divider	Divider Cable	50Ω terminator

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Setting





6-4-2. RF Calibration Program

- 1. Run the RF Calibration Program Launcher, 'DASEUL_Launcher_vx.x.xx.exe'.
- SM-G965D_OPEN_CALIBRATION_Ver_3.1.352.3.CAB
- BASEUL_Launcher_v4.0.0.exe
- BASEUL_CAL_ALL_Runtime_3.1.353.0_r00608.CAB

2. Check the 'Calibration' option and Click 'Extract & Run'.

No.	Processin	g	Status
1 ::: Start Normal Mode ::		Normal Mode :::	Complete
Selec	t Extract P	rocess	
√ Ri	untime	DASEUL_Runtime_Ver_3.1.353	3.0.CAB
SI	MD F/T		
PI	BA F/T		
C	alibration	r00608 SM-G965D_OPEN_CA	LIBRATION_Ver_3.1.352.3.CA
C	AL 2nd		
Fi	nal Auto		
🗌 Fi	nal 2nd		
II	1EI		
- N	/LAN		
G	PS		



3. Check the 'CAL' and open the model file, then select 'Start' button.

🗄 DASEUL Launcher+			Ver 1.0.1.5(2015-12-14)	
File Window Mode	Setting			
Main Tree $ arrow floar imes imes$	Model H/W Ver	sku csc	Runtime Ver Modelcab Ver	
System Configuration	S/W Ver Select Sequence	Buyer	DB Server	- ₽ ×
HW Hardware Configuration	Sequence	View		
CAL Signal Loss Configuration	Salart	elect Sequence Fi	iles & Login	
Channel Configuration	Select The Sequence Deploy Path :	File ⊂ C:₩DIST₩DASEUL	ange the permission, join, etc.	
BA ND Engine Frequency	SMD F/T		•	
Main The Information	Deploy Path CAL2nd	SM-G965D_OPEN_CALIBRATION_Ver_3. 1.35	2.3.seq	
Local SPC	C:WDISTWDASEUL FINAL FINAL2nd		•	I
✓ Kalana Analysis Daseul Log				
	GPS BT		• • •	
< >	Skip Cofiguration Resolution : 1024 x	Dialog Permission : Operator 768 Change Permission	Exit	



4. Change the Line Type to 'Block Cell' and disable 'Smart Cloud Cell'.

Set System Cor	stem Configuration	on	X
Test Process [Process] [Master] [Slave] SMD F/T □ □ PBA F/T □ □ Calibration ▼ □ Calibration 2ND □ □ Final Auto	Test Condition Calibration Real CAL Cycle: on every 20 default CALs Calibration Mode : FDT	System Config. Language Korean Line Name LINE(temp) Line Type Block Cell	Model Information Hardware Config
Final Auto 2ND Final Manual Fin	Final Supply RF Signal by Conduction Reset Loss Correction Count Test Mode : Signaling	# of Phone 1 Start Number 0f UI 1 Start Number 0f Jig 1 IP Address 10.60.157.50 SKD Mode	Signal Loss Config.
STA Check STA Reset WLAN GPS	WLAN Test Mode : WLan	MultiSharing(CMWS) Developer Mode Advanced Separating(ADS) SubpartsLife	MSTS Calibration
WLAN Power Off-On before WLAN Bluetooth LCIA Merge 2G3G Block Rad.	Use RFSM Use Second PC Save ODS Merge Felica Cal OQC Reset	Operation Condition Operation Condition SeeLog	End Band Engine Freq.
Process Order	IBI Reset	IMEI SVC&Repair Option	

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6. Level 1 Repair

5. Set the GPIB address of MSTS(CMW500) and Power Supply(E3632A) to enter 'Hardware Config' and 'Save'. (Check the GPIB address of equipments in advance)



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		completing an settings:	
💍 Set Sy	/stem Configurat	ion	X
Set System Cor	ntiguration Dialog		
Test Process	Test Condition	System Config.	
[Process] [Master] [Slave]	Calibration	Language Korean 👻	Model
SMD F/T	Real CAL Cycle: on every		Information
PBA F/T	20 👻 default CAL	s Line Name LINE(temp)	
Calibration 🔽 🗌			Hardware
Calibration 2ND	Calibration Mode : FDT	Line Type Block Cell 💌	Config
Final Auto	CAL2nd Mode : FDT 👻	NP Cell Smart Cloud Cell	
Final Auto 2ND			Signal Loss
Final Manual	Final	# of Phone 1	Config.
IMEI Write	Supply RF Signal by Conduction	Start Number	
IMEI Check		ofUI 1	Loss
MDL+2nd Check 🔲 🕅	Paget Loss Correction Count	Start Number	Galibration
MDL Rework	Reset Loss Correction Count	of Jig [-	
IMEI Read	Test Mode : Signaling	IP Address 10.60.157.50	- Channel
STA Write		SKD Mode	Config.
STA Check 🔲 🔲		MultiSharing(CMM/S)	
STA Reset 🔽	WLAN		MSTS
WLAN E	Test Mode : WLan	Developer Mode	Calibration
GPS E		Advanced Separating(ADS)	
BT 🗖	- IMEI	SubpartsLife	Setting
WIAN D	Use RFSM		End Band
Power Off-On before WLAN	Use Second PC	Operation Condition	
Bluetooth	Save ODS	Operation RUN	Engine Freq.
LCIA	Merge Felica Cal	Condition SeeLog (1)	
Merge 2G3G Block Rad.	OQC Reset		ОК
Drocose Order	IBI Reset	IMEI SVC&Repair Option	
Process order	OQC SKD USER D/L		
- DASEUL - SIV-GSOSF			
			Distance in the second
Model Model name	H/W Ver EMUL 0.2 SKU S/W Ver None C SC	XX DB Serv HOME(GUMI) Cell 1 Buyer XX PC	Type Block Cell NO. NONE
Model Model name Process Calibration(M)	HW Ver EMUL 0.2 SKU SW Ver None CSC	xx DB Serv HOME(GUMI) Cell 1 Buyer XX PC	Type Block Cell NO. NONE
Model Model name Process Calibration(M) PGM Ver DASEUL_v3.1.336.0 / Calibratio	HW Ver EMUL 0.2 SKU SW Ver None CSC on(r00587)	XX DB Serv HOME(GUMI) Cell 1 Buyer XX PC	Type Block Cell NO. NONE
Model Model name Process Calibration(M) PGM Ver DASEUL_v3.1.336.0 / Calibratio	HW Ver EMUL 0.2 SKU SW Ver None CSC on(r00587)	XX DB Serv HOME(GUMI) Cell 1 Buyer XX PC	Type Block Cell NO. NONE
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Model Model name Process Calibration(M) PGM Ver DASEUL_v3.1.336.0 / Calibratic Status Press [START ALL]	HW Ver EMUL 0.2 SKU SW Ver None CSC on(r00587) Phone 01	хх DB Serv HOME(GUMI) Cell 1 Buyer XX PC Cur Cнк Path Loss Measu	Type Block Cell NO. NONE
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Model Model name Process Calibration(M) PGM Ver DASEUL_v3.1.336.0 / Calibratic Status Press [START ALL] Result None Time 0.0 second (Average	HW Ver EMUL 0.2 SKU SW Ver None CSC on(r00587) Phone 01] Button!!! e : 0.0 second)) xx DB Serv HOME(GUMI) Cell 1 Buyer XX PC СUR СНК Path Loss Measu	Type Block Cell NO. NONE
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6. Press 'OK' to start RF Calibration after completing all settings

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Reference Abbreviation

- AAC: Advanced Audio Coding.
- AVC : Advanced Video Coding.
- BER : Bit Error Rate
- BPSK: Binary Phase Shift Keying
- CA : Conditional Access
- CDM : Code Division Multiplexing
- C/I : Carrier to Interference
- DMB : Digital Multimedia Broadcasting
- EN : European Standard
- ES : Elementary Stream
- ETSI: European Telecommunications Standards Institute
- MPEG: Moving Picture Experts Group
- PN : Pseudo-random Noise
- PS : Pilot Symbol
- QPSK: Quadrature Phase Shift Keying
- RS : Reed-Solomon
- SI : Service Information
- TDM : Time Division Multiplexing
- TS : Transport Stream