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. Safety Precautions

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

Item		GSM 850	EGSM 900	DCS1800	PCS1900
Freq. Band[MHz]		824~849	880~915	1710~1785	1850~1910
Uplink/E	ownlink	869~894	925~960	1805~1880	1930~1990
ARFCN	l range	128~251	0~124 & 975~1023	512~885	512~810
Tx/Rx s	spacing	45MHz	45MHz	95MHz	80MHz
Mod. B	Bit rate/	270.833kbps	270.833kbps	270.833kbps	270.833kbps
Bit P	eriod	3.692us	3.692us	3.692us	3.692us
Time Slo		576.9us	576.9us	576.9us	576.9us
Frame	Period	4.615ms	4.615ms	4.615ms	4.615ms
NA - I I - C	GSM/	GMSK/	GMSK/	GMSK/	GMSK/
Modulation	EGPRS	8PSK	8PSK	8PSK	8PSK
MS P	ower	32.8dBm~5dBm	33dBm~5dBm	29.5dBm~0dBm	29.8dBm~0dBm
_		4(GMSK)	4(GMSK)	1(GMSK)	1(GMSK)
Power	Class	E2(8PSK)	E2(8PSK)	E2(8PSK)	E2(8PSK)
Sens	itivity	-109.5dBm	-110dBm	-109.5dBm	-108.5dBm
TDMA	A Mux	8	8	8	8

2-2. 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±3 dBm	17	9±3 dBm	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

2-3-1. WCDMA General Specification [SM-J810F/G/GF]

Item	WCDMA2100(B1)	WCDMA1900(B2)	WCDMA850(B5)	WCDMA900(B8)
Freq. Band[MHz]	1920~1980	1850~1910	824~849	880~915
Uplink/Downlink	2110~2170	1930~1990	869~894	925~960
ARFCN range	UL: 9612~9888 DL: 10562~10838	UL: 9262~9538 DL: 9662~9938	UL: 4132~4233 DL: 4357~4458	UL: 2712~2868 DL: 2937~3088
Tx/Rx spacing	190MHz	80MHz	45MHz	45MHz
Mod. Bit rate/ Bit Period	42.2Mbps(DL) 5.42Mbps(UL)	42.2Mbps(DL) 5.42Mbps(UL)	42.2Mbps(DL) 5.42Mbps(UL)	42.2Mbps(DL) 5.42Mbps(UL)
Time Slot Period/ Frame Period	WCDMA 10ms/0.667ms HSPA 2ms/0.667ms	WCDMA 10ms/0.667ms HSPA 2ms/0.667ms	WCDMA 10ms/0.667ms HSPA 2ms/0.667ms	WCDMA 10ms/0.667ms HSPA 2ms/0.667ms
Modulation	QPSK 16QAM 64QAM	QPSK 16QAM 64QAM	QPSK 16QAM 64QAM	QPSK 16QAM 64QAM
MS Power (dBm)	23.5 ~ -49(↓)	22.5 ~ -49(↓)	23 ~ -49(↓)	22.5 ~ -49(↓)
Power Class	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)
Sensitivity	-109.5dBm	-110dBm	-111.5dBm	-111.5dBm

2-3-2. WCDMA General Specification [SM-J810M/Y]

Item	WCDMA2100(B1)	WCDMA1900(B2)	WCDMA AWS(B4)	WCDMA850(B5)	WCDMA900(B8)
Freq. Band[MHz] Uplink/Downlink	1920~1980 2110~2170	1850~1910 1930~1990	1710~1755 2110~2155	824~849 869~894	880~915 925~960
ARFCN range	UL: 9612~9888 DL: 10562~10838	UL: 9262~9538 DL: 9662~9938	UL: 1312~1513 DL: 1537~1738	UL: 4132~4233 DL: 4357~4458	UL: 2712~2868 DL: 2937~3088
Tx/Rx spacing	190MHz	80MHz	400MHz	45MHz	45MHz
Mod. Bit rate/ Bit Period	42.2Mbps(DL) 5.42Mbps(UL)	42.2Mbps(DL) 5.42Mbps(UL)	42.2Mbps(DL) 5.42Mbps(UL)	42.2Mbps(DL) 5.42Mbps(UL)	42.2Mbps(DL) 5.42Mbps(UL)
Time Slot Period/ Frame Period	WCDMA 10ms/0.667ms HSPA 2ms/0.667ms	WCDMA 10ms/0.667ms HSPA 2ms/0.667ms	WCDMA 10ms/0.667ms HSPA 2ms/0.667ms	WCDMA 10ms/0.667ms HSPA 2ms/0.667ms	WCDMA 10ms/0.667ms HSPA 2ms/0.667ms
Modulation	QPSK 16QAM 64QAM	QPSK 16QAM 64QAM	QPSK 16QAM 64QAM	QPSK 16QAM 64QAM	QPSK 16QAM 64QAM
MS Power (dBm)	23.5 ~ -49(↓)	22.5 ~ -49(↓)	25.7 ~ -49(↓)	23 ~ -49(↓)	22.5 ~ -49(↓)
Power Class	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)
Sensitivity	-109.5dBm	-110dBm	-110dBm	-111.5dBm	-111.5dBm

2-4-1. LTE General Specification

Item	LTE Band1	LTE Band3	LTE Band5	LTE Band7	LTE Band8	LTE Band20
Freq. Band[MHz]	1920~1980	1710~1785	824~849	2500~2570	880~915	832~862
Uplink/Downlink	2110~2170	1805~1880	869~894	2620~2690	925~960	791~821
ARFCN range	UL:18000~18599 DL:0~599	UL:19200~19949 DL:1200~1949	UL:20400~20649 DL:2400~2649	UL:20750~21449 DL:2750~3449	UL:21450-21799 DL:3450-3799	UL:24150~24449 DL:6150~6449
Tx/Rx spacing (MHz)	190	95	45	120	45	-41
Channel Bandwidth (MHz)	5/10/15/20	1.4/3/5/10/15/20	1.4/3/5/10	5/10/15/20	1.4/3/5/10	5/10/15/20
Modulation		QPSK,16/64QAM 256QAM(DL only)	•			QPSK,16/64QAM 256QAM(DL only)
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity (QPSK, BW 10MHz) (dBm)	-102	102.5	-103	-101.5	-103	-103

2-4-2. LTE General Specification [SM-J810F]

Item	LTE Band38	LTE Band40
Freq. Band[MHz] Uplink/Downlink	2570~2620	2300~2400
ARFCN range	UL/DL:37750 ~ 38249	UL/DL:38650 ~ 39649
Tx/Rx spacing (MHz)	0	0
Channel Bandwidth (MHz)	5/10/15/20	5/10/15/20
Modulation	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity (QPSK, BW 10MHz) (dBm)	-101.5	-101

2-4-3. LTE General Specification [SM-J810G/GF]

Item	LTE Band38	LTE Band40	LTE Band41
Freq. Band[MHz] Uplink/Downlink	2570~2620	2300~2400	2496~2690
ARFCN range	UL/DL:37750 ~ 38249	UL/DL:38650 ~ 39649	UL/DL:39650 ~ 41589
Tx/Rx spacing (MHz)	0		0
Channel Bandwidth (MHz)	5/10/15/20	5/10/15/20	5/10/15/20
Modulation	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity (QPSK, BW 10MHz) (dBm)	-101.5	-101	-101

2-4-4. LTE General Specification [SM-J810M]

Item	LTE Band1	LTE Band2	LTE Band3	LTE Band4	LTE Band5	LTE Band7
Freq. Band[MHz]	1920~1980	1850~1910	1710~1785	1710~1755	824~849	2500~2570
Uplink/Downlink	2110~2170	1930~1990	1805~1880	2110~2155	869~894	2620~2690
ARFCN range	UL:18000~18599 DL:0~599	UL:18600~19199 DL:600~1199	UL:19200~19949 DL:1200~1949	UL:19950~20399 DL:1950~2399	UL:20400~20649 DL:2400~2649	UL:20750~21449 DL:2750~3449
Tx/Rx spacing (MHz)	190	80	95	400	45	120
Channel Bandwidth (MHz)	5/10/15/20	1.4/3/5/10/15/20	1.4/3/5/10/15/20	1.4/3/5/10/15/20	1.4/3/5/10	5/10/15/20
Modulation			-			QPSK,16/64QAM 256QAM(DL only)
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity (QPSK, BW 10MHz) (dBm)	-102	-99	-102.5	-99.5	-103	-101.5

Item	LTE Band8	LTE Band12	LTE Band13	LTE Band17	LTE Band20	LTE Band28
	LIL Ballao	LIL Danaiz	LIL Dana13	LIL Danuti	LIL Danazo	LIL Ballazo
Freq. Band[MHz]	880~915	699~716	777~787	704~716	832~862	703~748
Uplink/Downlink	925~960	729~746	746~756	734~746	791~821	758~803
ADECN ross	UL:21450-21799	UL:23010~23179	UL:23180~23279	UL:23730~23849	UL:24150~24449	UL:27210~27659
ARFCN range	DL:3450-3799	DL:5010~5179	DL:5180~5279	DL:5730~5849	DL:6150~6449	DL:9210~9659
Tx/Rx spacing (MHz)	45	30	-31	30	-41	55
Channel Bandwidth (MHz)	1.4/3/5/10	1.4/3/5/10	1.4/3/5/10	5/10	5/10/15/20	3/5/10/15/20
Modulation	•	,	•	QPSK,16/64QAM 256QAM(DL only)	•	QPSK,16/64QAM 256QAM(DL only)
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity (QPSK, BW 10MHz) (dBm)	-103	-102.5	-102.5	-102.5	-103	-101

Item	LTE Band66	LTE Band38	LTE Band41	
Freq. Band[MHz] Uplink/Downlink	1710~1780 2110~2200	2570~2620	2496~2690	
ARFCN range	UL:131972 ~ 132671 DL:66436 ~ 67335	UL/DL:37750 ~ 38249	UL/DL:39650 ~ 41589	
Tx/Rx spacing (MHz)	400	0	0	
Channel Bandwidth (MHz)	1.4/3/5/10/15/20	5/10/15/20	5/10/15/20	
Modulation	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	
Sensitivity (QPSK, BW 10MHz) (dBm)	-99	-101.5	-101	

2-4-5. LTE General Specification [SM-J810M]

Item	LTE Band1	LTE Band2	LTE Band3	LTE Band4	LTE Band5	LTE Band7
Freq. Band[MHz]	1920~1980	1850~1910	1710~1785	1710~1755	824~849	2500~2570
Uplink/Downlink	2110~2170	1930~1990	1805~1880	2110~2155	869~894	2620~2690
ARFCN range	UL:18000~18599 DL:0~599	UL:18600~19199 DL:600~1199	UL:19200~19949 DL:1200~1949	UL:19950~20399 DL:1950~2399	UL:20400~20649 DL:2400~2649	UL:20750~21449 DL:2750~3449
Tx/Rx spacing (MHz)	190	80	95	400	45	120
Channel Bandwidth (MHz)	5/10/15/20	1.4/3/5/10/15/20	1.4/3/5/10/15/20	1.4/3/5/10/15/20	1.4/3/5/10	5/10/15/20
Modulation			-			QPSK,16/64QAM 256QAM(DL only)
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity (QPSK, BW 10MHz) (dBm)	-102	-99	-102.5	-99.5	-103	-101.5

Item	LTE Band8	LTE Band12	LTE Band17	LTE Band20	LTE Band28
Freq. Band[MHz] Uplink/Downlink	880~915 925~960	699~716 729~746	704~716 734~746	832~862 791~821	703~748 758~803
ARFCN range	UL:21450-21799 DL:3450-3799	UL:23010~23179 DL:5010~5179	UL:23730~23849 DL:5730~5849	UL:24150~24449 DL:6150~6449	UL:27210~27659 DL:9210~9659
Tx/Rx spacing (MHz)	45	30	30	-41	55
Channel Bandwidth (MHz)	1.4/3/5/10	1.4/3/5/10	5/10	5/10/15/20	3/5/10/15/20
Modulation	QPSK,16/64QAM 256QAM(DL only)				
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity (QPSK, BW 10MHz) (dBm)	-103	-102.5	-102.5	-103	-101

Item	LTE Band66	LTE Band38	LTE Band40	LTE Band41
Freq. Band[MHz] Uplink/Downlink	1710~1780 2110~2200	2570~2620	2300~2400	2496~2690
ARFCN range	UL:131972 ~ 132671 DL:66436 ~ 67335	UL/DL:37750 ~ 38249	UL/DL:38650 ~ 39649	UL/DL:39650 ~ 41589
Tx/Rx spacing (MHz)	400	0 0		0
Channel Bandwidth (MHz)	1.4/3/5/10/15/20	5/10/15/20	5/10/15/20	5/10/15/20
Modulation	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)	QPSK,16/64QAM 256QAM(DL only)
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓) 25.7~-39(↓)	
Sensitivity (QPSK, BW 10MHz) (dBm)	-99	-101.5	-101	-101

3. Product Function

Main Function

Item	Description			
os	Android V8.0			
SM-J810F RF	2G : GSM850, GSM900, DCS1800, PCS1900 3G : W1, W2, W5, W8 LTE FDD : B1,B3,B5,B7,B8,B20 LTE TDD : B38, B40			
SM-J810G/GF RF	2G: GSM850, GSM900, DCS1800, PCS1900 3G: W1, W2,W5, W8 LTE FDD: B1,B3,B5,B7,B8,B20 LTE TDD: B38, B40, B41			
SM-J810M RF	2G: GSM850, GSM900, DCS1800, PCS1900 3G: W1, W2, W4, W5, W8 LTE FDD: B1,B2,B3,B4,B5,B7,B8,B12,B13,B17,B20,B28,B66 LTE TDD: B38, B41			
SM-J810Y RF	2G : GSM850, GSM900, DCS1800, PCS1900 3G : W1, W2, W4, W5, W8 LTE FDD : B1,B2,B3,B4,B5,B7,B8,B12,B17,B20,B28,B66 LTE TDD : B38, B40, B41			
Battery	3500mAh			
Base Band	Qualcomm SDM450 1.8GHz(Octa-Core)			
Other RF	A-GPS, Glonass, BEIDOU, BT4.2, USB 2.0, WIFI 802.11 b/g/n 2.4G only, No NFC			
Camera	Dual Camera(16MP(F1.7)+5MP(F1.9)) with LED Flash, Front Camera 16MP(F1.9)			
LCD	6.0", Super AMOLED HD+, 1480x720			
Memory	RAM : 3-4GB, ROM 32-64GB			
Sensor	Accelerometer, Fingerprint Sensor, Hall Sensor, Proximity Sensor			
Accessory	Charger: 5V/1A Data cable: 0.8M USB-A Ear phone: 3.5pi, 4pin Ejection Pin			

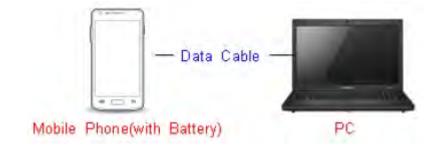
6-1. S/W Update

6-1-1. Preparation

• S/W Update program : Fenrir 5.17.xxxx

- Mobile Phone
- Data Cable

*** Settings**





Data Cable: GH39-01710D

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

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



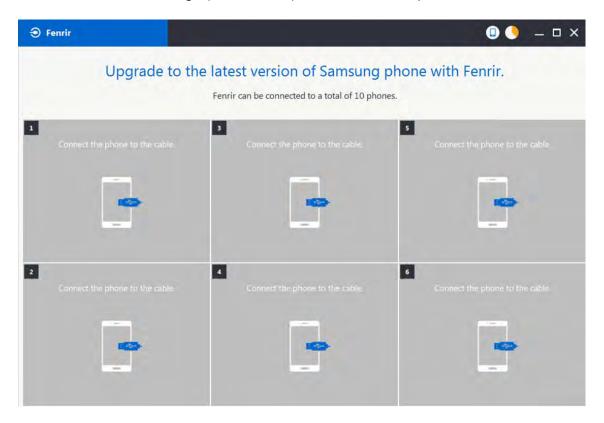




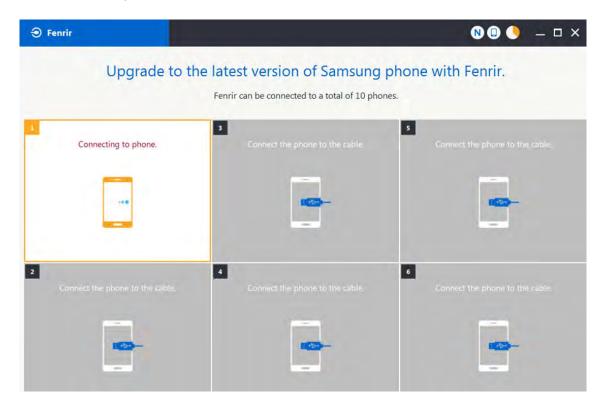
- SVH (Fenrir_Home) : It uses Home binary which does not have user data area in the memory when flashed to a device. (Keep user data)
- SVC (Fenrir_Factory) : It uses Factory binary which erases all user data in the memory when flashed to a device. (Clear user data)
- SVA (Fenrir_All): It uses Factory 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
- *You need to reset the ID information in case of PC change and format and repair, hard disk change



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



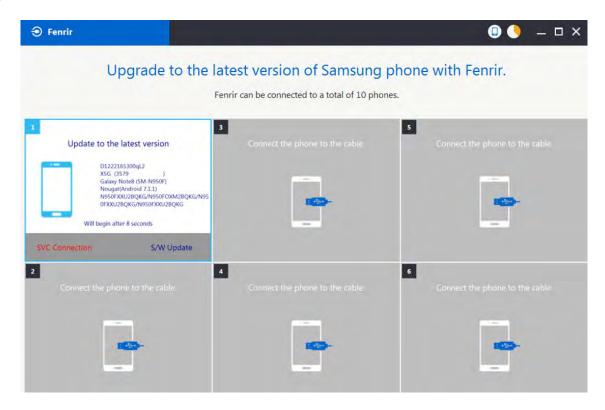
- 4) Connect the device to PC via data cable.
- 5) Upon USB connection, you will be presented with below screen.



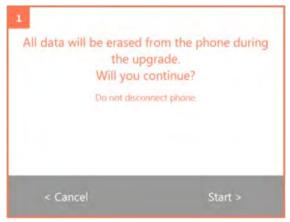
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6) Once device is detected, you will be presented with below screen. To update S/W, select "S/W Update" or to exit select "SVC Connection". If you select "SVC Connection", only Fenrir connection history (record) will be stored in the FUS server to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

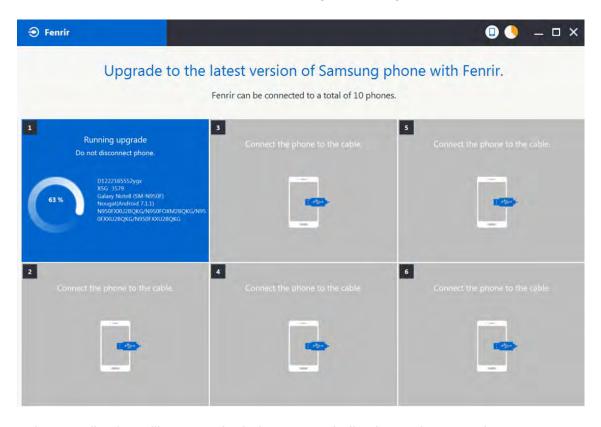


7) Once Fenrir starts, application will display the below screen. And select the Start button & Agree button.

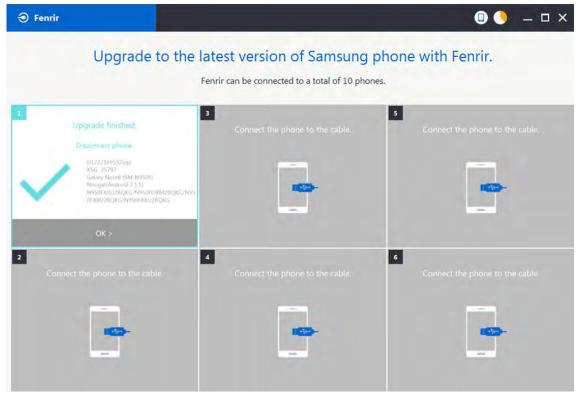




8) The status circle increases as the update installs. The update process takes approximately 5-10 minutes to complete. Do not disconnect the device from USB during processing.



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



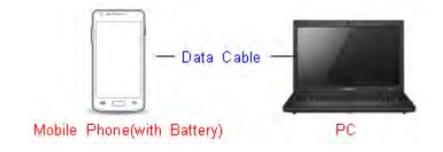
6-2. How to use 'Odin' program

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

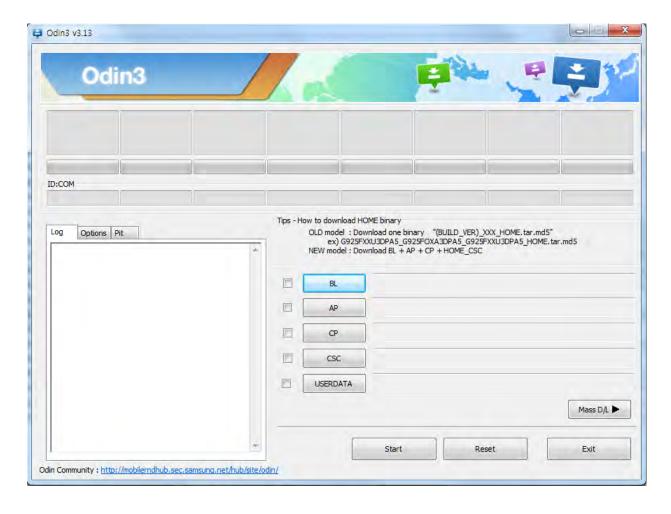




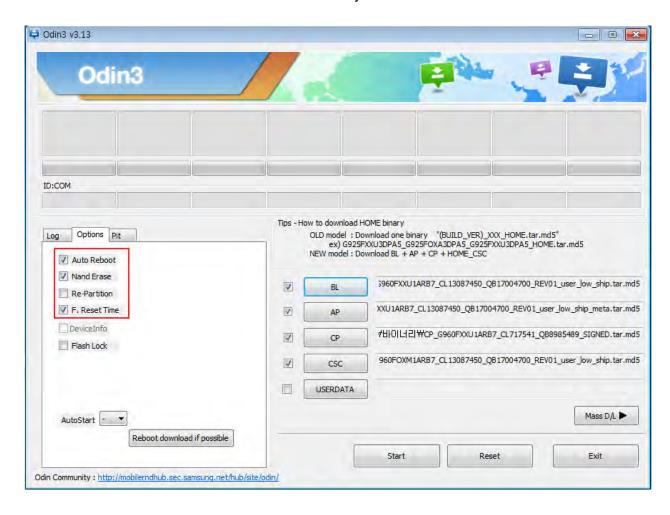
Data Cable: GH39-01710D

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

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



- 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.



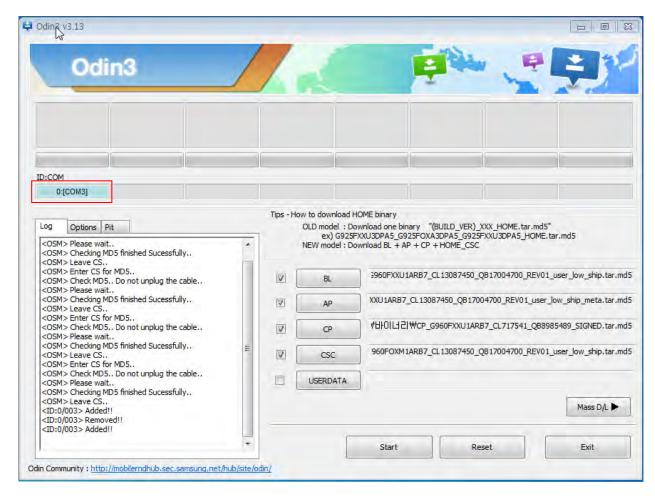
2. Enter into Download Mode

- Enter into Download Mode by pressing Volume Down and UP button together, and then connect USB cable via IF connector.



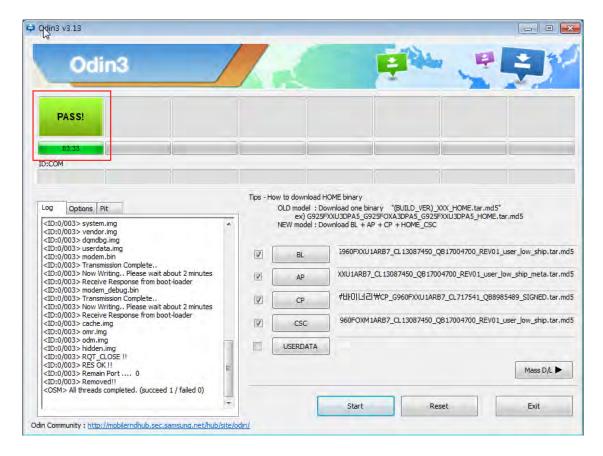
3. Connect the device to PC via Data Cable.

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.



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.



- 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 → General Management → Reset

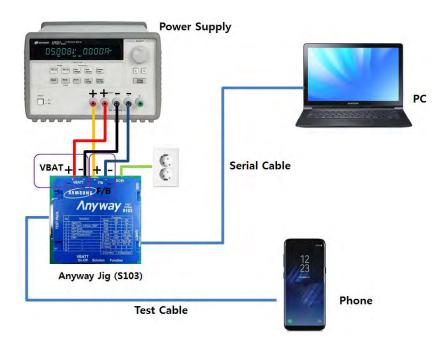
Caution. Never disconnect during the S/W downloading.

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.

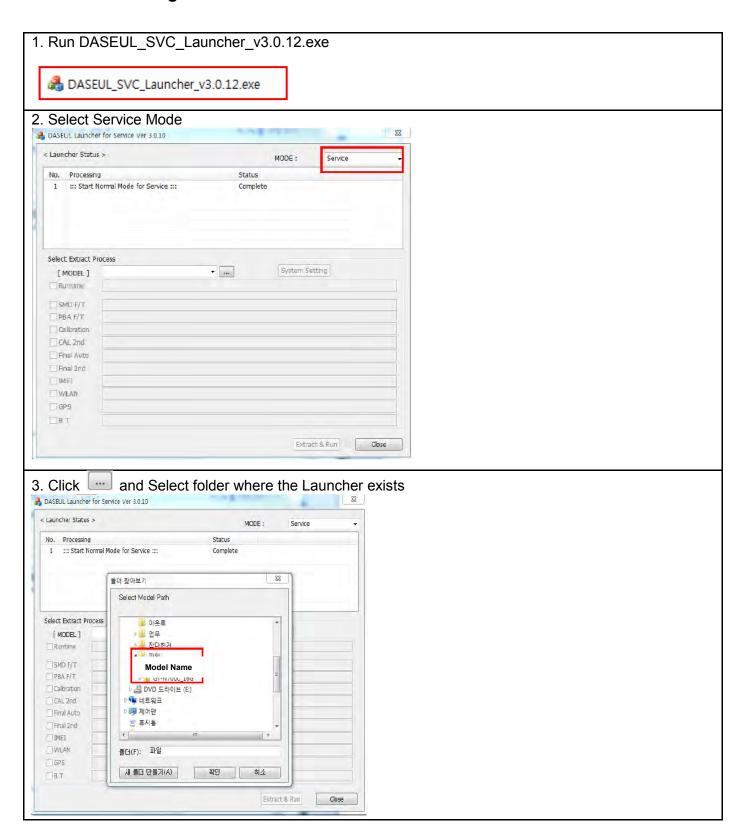
- H/W

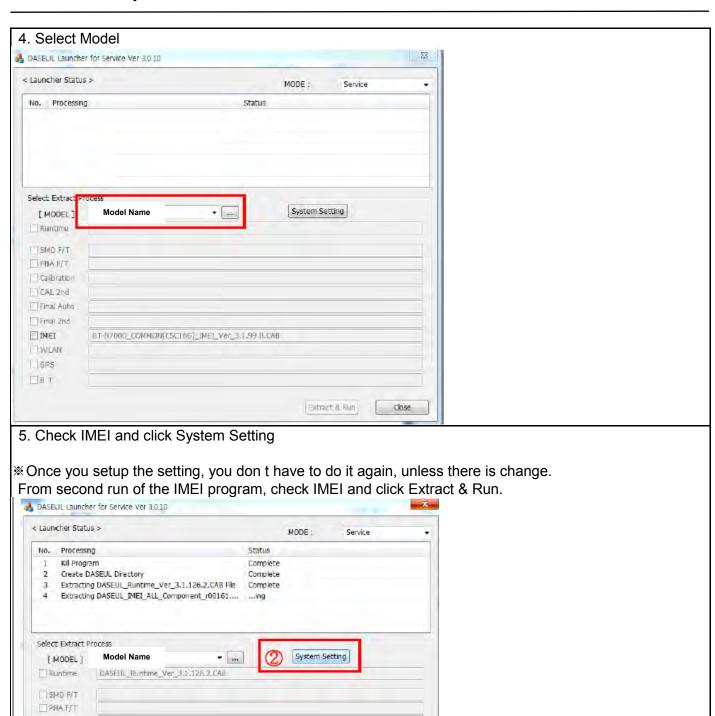


- S/W

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"		
②Launcher	DASEUL_SVC_Launcher_v3.0.12 or higher -Uploaded on HHPsvc Notice		
③ Runtime File	1. DASEUL_IMEI_ALL_Runtime_3.1.348.0_r00519.CAB or higher -Uploaded on HHPsvc Notice 2. Make 'ModelName' folder at the same position with launcher & Runtime file. DASEUL_IMEI_ALL_Runtime_3.1.348.0_r00519.CAB DASEUL_Launcher_v4.0.0.exe SM-J600F :SC)_IMEI_Ver_3.1.343.10.CAB		
4 Model File	Copy Model File under the 'SM-J600F' folder		

6-3-2. IMEI writing Process





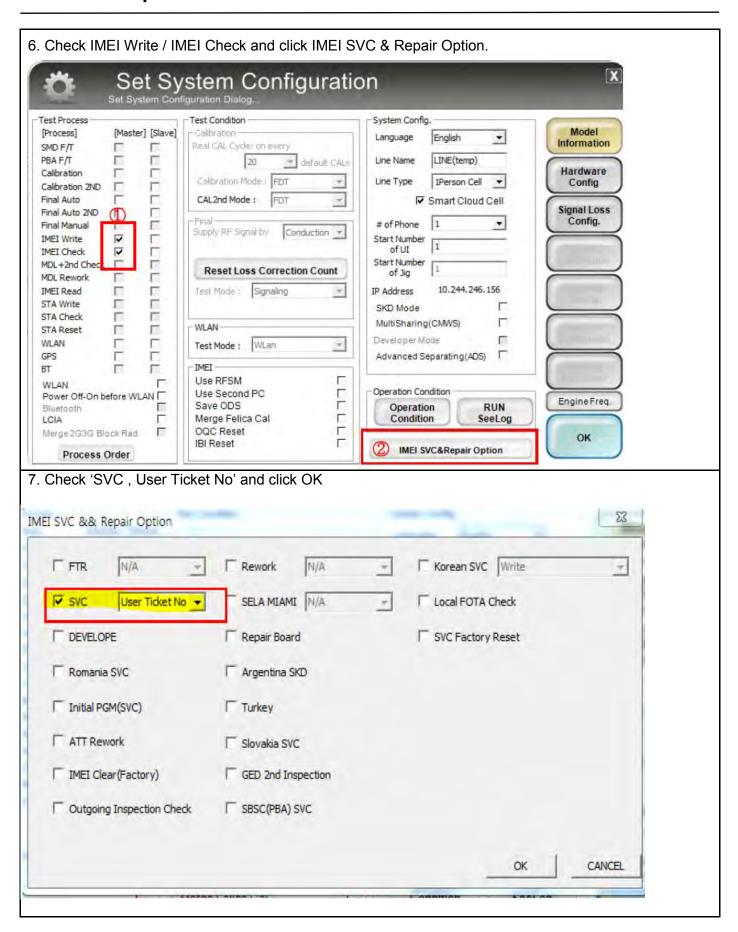
Extract & Run

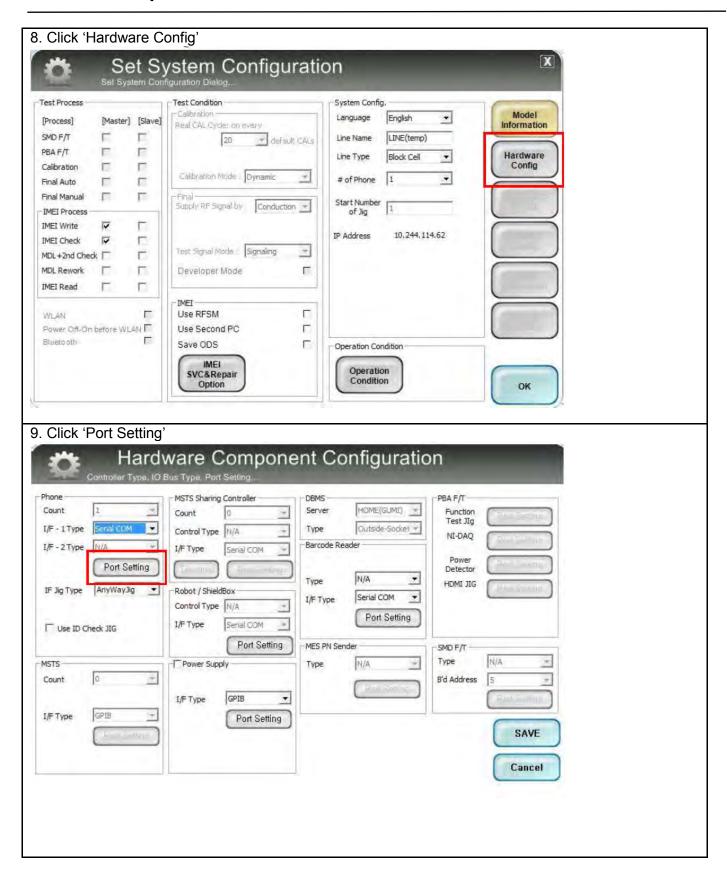
Close

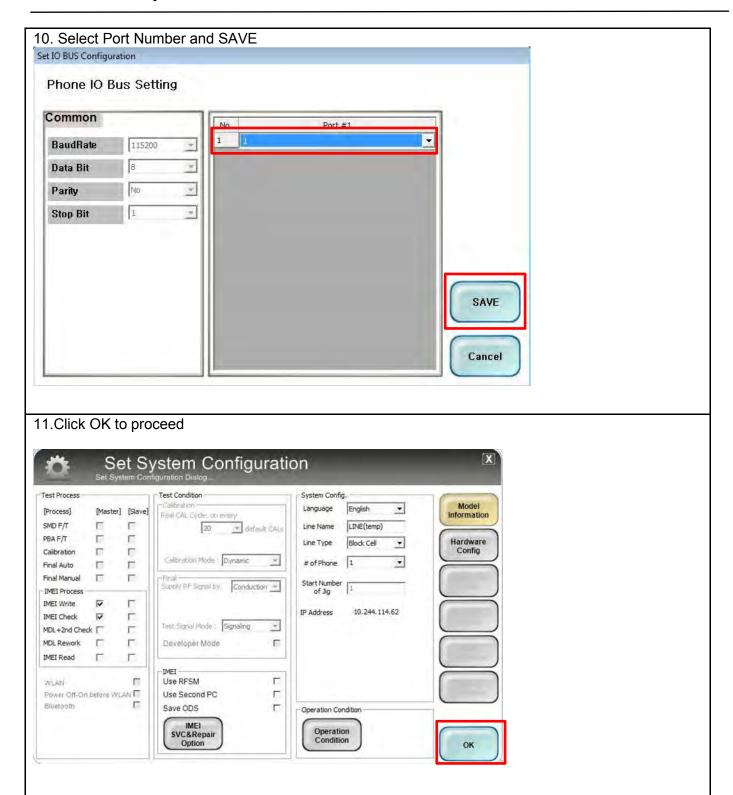
r00161 | GT-N7000_COMMON(CSCL6G)_INEL_Ver_3,1.99,8.CAB

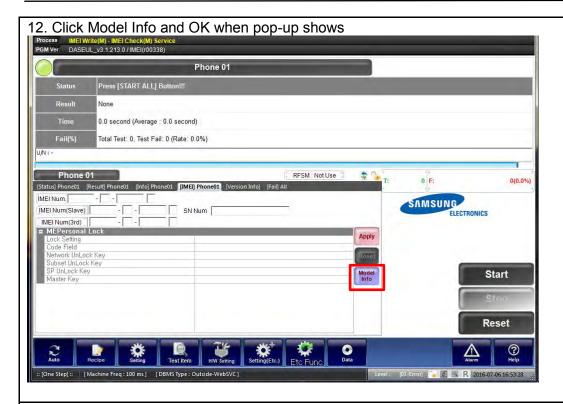
Calibration
|| CAL 2nd
|| Final Auto

WLAN GPS





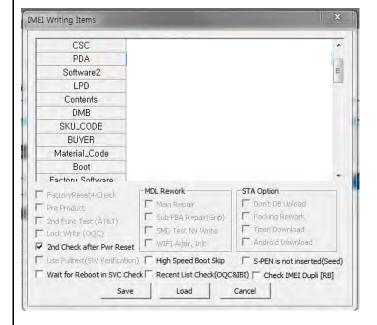




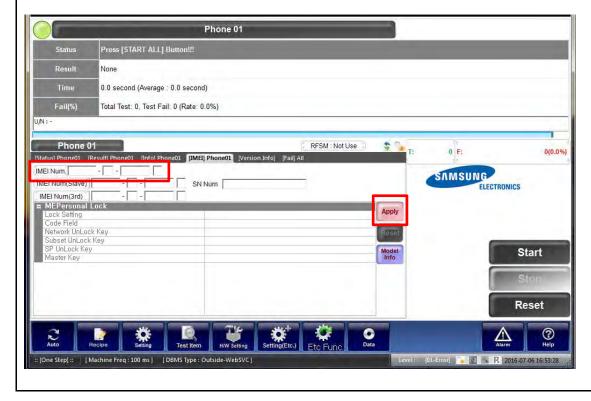
13. Click OK

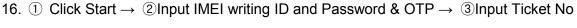


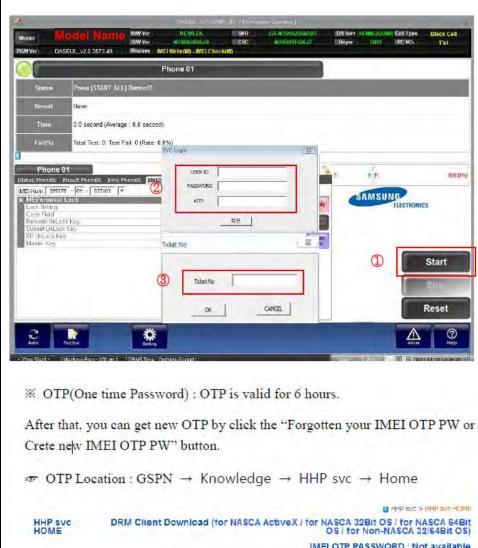
- 14. Input SKU_CODE and BUYER, then click Save button.
- ※ Refer to HHPsvc→IMEI Review to check SKU Code and buyer



15. Input IMEI Number and click Apply







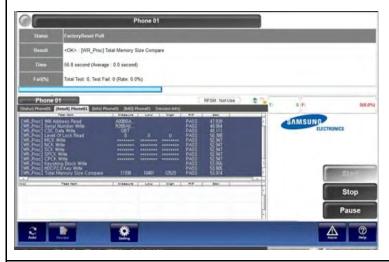




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- 17. Connect the phone to Anyway JIG
- * When you connect the phone, the phone should be turned off.

 After connecting the phone, the phone will be booted automatically.
- 18. IMEI Writing Proceeding



19. IMEI Writing Success



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.x.CAB

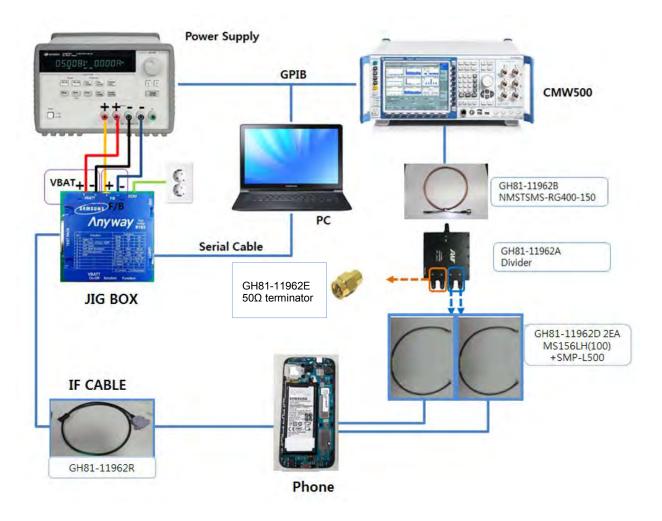
* It is required to use the latest program.

- Mobile Phone
- R&S CMW500
- E3632A Power Supply
- GPIB Cable (2ea)
- JIG BOX (S103)
- Adapter
- UART Serial Cable
- IF Cable (GH81-10952A)

❖ Table of test cables

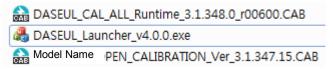
RF Cable (Manual)	GH81-11962D		
	1.35T Short		
4 Port Divider	GH81-11962A	GH81-11962B	GH81-11962E
	Divider	Divider Cable	50Ω terminator

❖ Setting

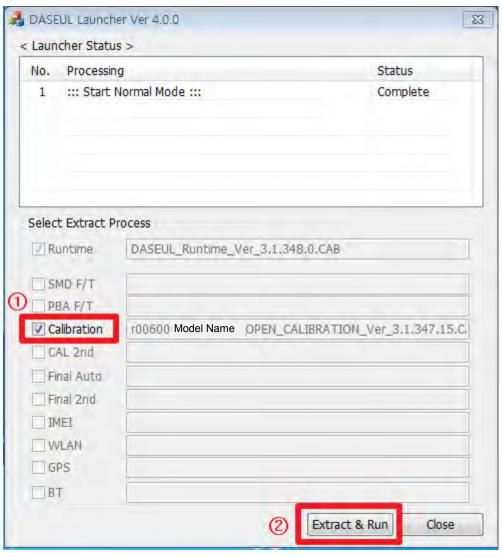


6-4-2. RF Calibration Program

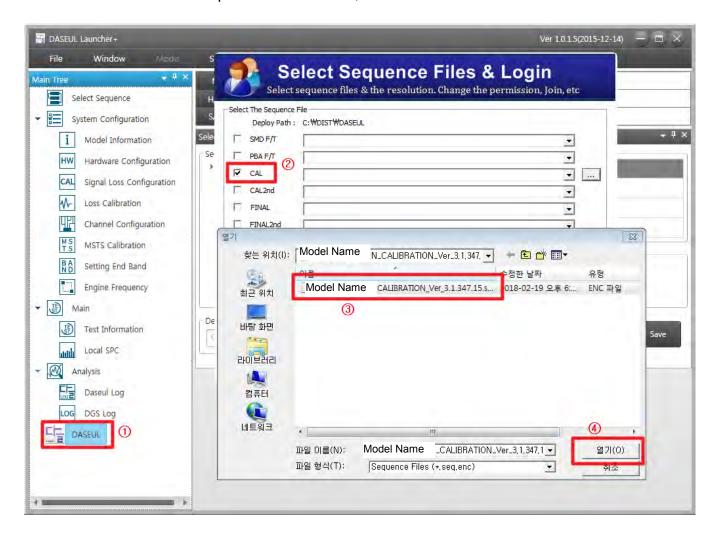
1. Run the RF Calibration Program Launcher, 'DASEUL_Launcher_vx.x.xx.exe'.



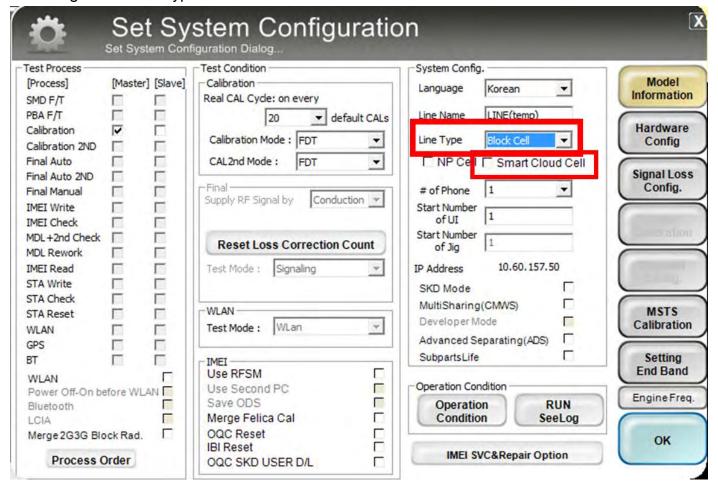
2. Check the 'Calibration' option and Click 'Extract & Run'.



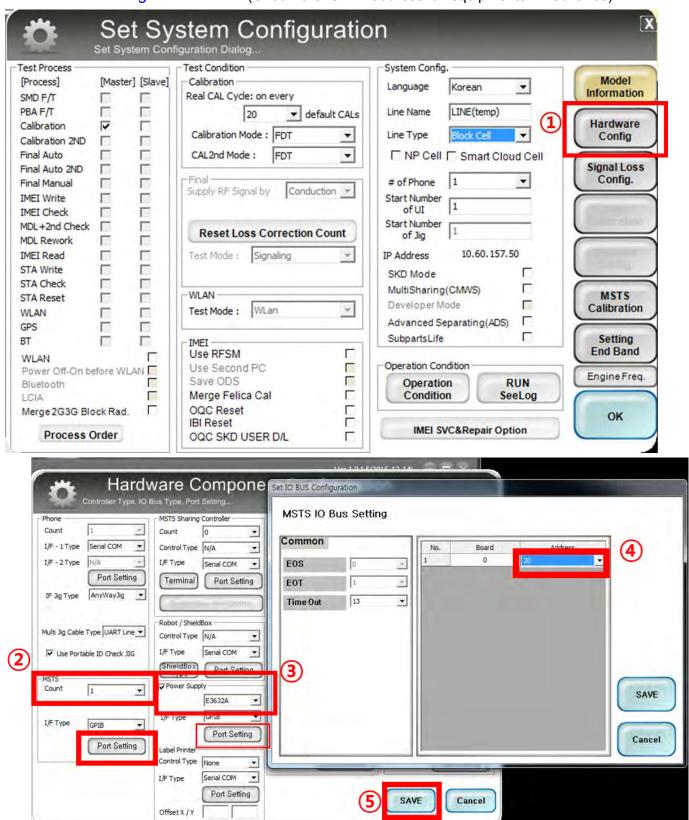
3. Check the 'CAL' and open the model file, then select 'Start' button.



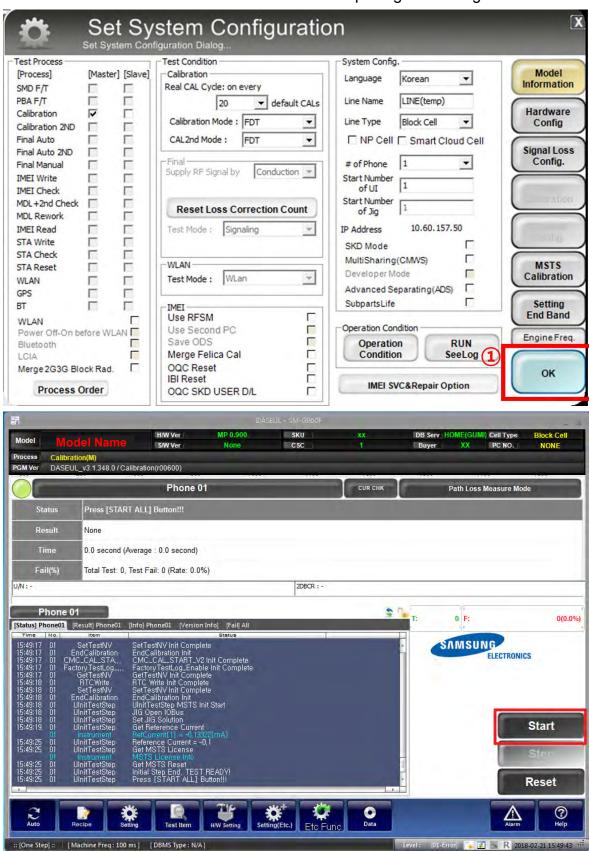
4. Change the Line Type to 'Block Cell' and disable 'Smart Cloud Cell'.



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)



6. Press 'OK' to start RF Calibration after completing all settings.



9. Reference Abbreviation

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 StandardES : 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-SolomonSI : Service Information
- TDM: Time Division Multiplexing
- TS : Transport Stream