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.



2-1-1. GSM General Specification [SM-M105F/G/Y]

ltem		GSM 850	EGSM 900	DCS1800
Freq. Ba	and[MHz]	824~849	880~915	1710~1785
Uplink/[Downlink	869~894	925~960	1805~1880
ARFC	N range	128~251	0~124 & 975~1023	512~885
Tx/Rx :	spacing	45MHz	45MHz	95MHz
Mod. E	Bit rate/	270.833kbps	270.833kbps	270.833kbps
Bit P	eriod	3.692us	3.692us	3.692us
Time Slo	ot Period/	576.9us	576.9us	576.9us
Frame	Period	4.615ms	4.615ms	4.615ms
	GSM/	GMSK/	GMSK/	GMSK/
Modulation	EGPRS	8PSK	8PSK	8PSK
MS F	Power	33dBm~5dBm	33dBm~5dBm	30dBm~0dBm
_		4(GMSK)	4(GMSK)	1(GMSK)
Power	r Class	E2(8PSK)	E2(8PSK)	E2(8PSK)
Sensitivity		-102dBm	-102dBm	-100dBm
TDM	A Mux	8	8	8



2-1-2. GSM General Specification [SM-M105M]

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
ARFCN	N 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
	ot Period/	576.9us	576.9us	576.9us	576.9us 4.615ms
Frame	Period	4.615ms	4.615ms	4.615ms	4.010113
	GSM/	GMSK/	GMSK/	GMSK/	GMSK/
Modulation	EGPRS	8PSK	8PSK	8PSK	8PSK
MS F	Power	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
TDMA	A Mux	8	8	8	8

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2-2-1. GSM Tx Power Class [SM-M105F/G/Y]

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

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2-2-2. GSM Tx Power Class [SM-M105M]

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

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2-3-1. WCDMA General Specification [SM-M105F/G]

ltem	WCDMA2100(B1)	WCDMA850(B5)	WCDMA900(B8)
Freq. Band[MHz]	1920~1980	824~849	880~915
Uplink/Downlink	2110~2170	869~894	925~960
ARFCN range	UL: 9612~9888	UL: 4132~4233	UL: 2712~2868
	DL: 10562~10838	DL: 4357~4458	DL: 2937~3088
Tx/Rx spacing	190MHz	45MHz	45MHz
Mod. Bit rate/	42.2Mbps(DL)	42.2Mbps(DL)	42.2Mbps(DL)
Bit Period	5.42Mbps(UL)	5.42Mbps(UL)	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
Modulation	QPSK 16QAM 64QAM	QPSK 16QAM 64QAM	QPSK 16QAM 64QAM
MS Power (dBm)	25.7 ~ -49(↓)	25.7 ~ -49(↓)	25.7 ~ -49(↓)
Power Class	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)
Sensitivity	-106dBm	-104dBm	-103dBm



2-3-2. WCDMA General Specification [SM-M105M]

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)	25.7 ~ -49(↓)	25.7 ~ -49(↓)	25.7 ~ -49(↓)	25.7 ~ -49(↓)	25.7 ~ -49(↓)
Power Class	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)
Sensitivity	-106dBm	-104dBm	-106dBm	-104dBm	-103dBm

2-3-3. WCDMA General Specification [SM-M105Y]

Item	WCDMA2100(B1)	WCDMA1900(B2)	WCDMA850(B5)	WCDMA900(B8)
Freq. Band[MHz] Uplink/Downlink	1920~1980 2110~2170	1850~1910 1930~1990	824~849 869~894	880~915 925~960
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)	25.7 ~ -49(↓)	25.7 ~ -49(↓)	25.7 ~ -49(↓)	25.7 ~ -49(↓)
Power Class	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)
Sensitivity	-106dBm	-104dBm	-104dBm	-103dBm



2-4. LTE General Specification

Item	LTE Band1	LTE Band3	LTE Band5	LTE Band8
Freq. Band[MHz]	1920~1980	1710~1785	824~849	880~915
Uplink/Downlink	2110~2170	1805~1880	869~894	925~960
ARFCN range	UL:18000~18599	UL:19200~19949	UL:20400~20649	UL:21450-21799
	DL:0~599	DL:1200~1949	DL:2400~2649	DL:3450-3799
Tx/Rx spacing (MHz)	190	95	45	45
Channel Bandwidth (MHz)	5/10/15/20	1.4/3/5/10/15/20	1.4/3/5/10	1.4/3/5/10
Modulation	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity (QPSK, BW 10MHz) (dBm)	-96.3	-93.3	-94.3	-93.3

[SM-M105F]

ltem	LTE Band20	LTE Band38	LTE Band40	LTE Band41
Freq. Band[MHz] Uplink/Downlink	832~862 791~821	2570~2620	2300~2400	2496~2690
ARFCN range	UL:24150~24449 DL:6150~6449	UL/DL:37750 ~ 38249	UL/DL:38650 ~ 39649	UL/DL:39650 ~ 41589
Tx/Rx spacing (MHz)	-41	0	0	0
Channel Bandwidth (MHz)	5/10/15/20	5/10/15/20	5/10/15/20	5/10/15/20
Modulation	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity (QPSK, BW 10MHz) (dBm))	-93.3	-96.3	-96.3	-94.3

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2. Specification



[SM-M105G]

ltem	LTE Band7	LTE Band20	LTE Band38	LTE Band40	LTE Band41
Freq. Band[MHz] Uplink/Downlink	2500~2570 2620~2690	832~862 791~821	2570~2620	2300~2400	2496~2690
ARFCN range	UL:20750~21449 DL:2750~3449	UL:24150~24449 DL:6150~6449	UL/DL:37750 ~ 38249	UL/DL:38650 ~ 39649	UL/DL:39650 ~ 41589
Tx/Rx spacing (MHz)	120	-41	0	0	0
Channel Bandwidth (MHz)	5/10/15/20	5/10/15/20	5/10/15/20	5/10/15/20	5/10/15/20
Modulation	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity (QPSK, BW 10MHz) (dBm))	-94.3	-93.3	-96.3	-96.3	-94.3

2. Specification



[SM-M105M]

Item	LTE Band2	LTE Band4	LTE Band7
Freq. Band[MHz] Uplink/Downlink	1850~1910 1930~1990	1710~1755 2110~2155	2500~2570 2620~2690
ARFCN range	UL:18600~19199 DL:600~1199	UL:19950~20399 DL:1950~2399	UL:20750~21449 DL:2750~3449
Tx/Rx spacing (MHz)	80	400	120
Channel Bandwidth (MHz)	1.4/3/5/10/15/20	1.4/3/5/10/15/20	5/10/15/20
Modulation	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM 256QAM(DL only)
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity (QPSK, BW 10MHz) (dBm)	-94.3	-96.3	-94.3

Item	LTE Band12	LTE Band17	LTE Band28
Freq. Band[MHz] Uplink/Downlink	699~716 729~746	704~716 734~746	703~748 758~803
ARFCN range	UL:23010~23179 DL:5010~5179	UL:23730~23849 DL:5730~5849	UL:27210~27659 DL:9210~9659
Tx/Rx spacing (MHz)	30	30	55
Channel Bandwidth (MHz)	1.4/3/5/10	5/10	3/5/10/15/20
Modulation	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity (QPSK, BW 10MHz) (dBm))	-93.3	-93.3	-94.8

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2. Specification



[SM-M105Y]

ltem	LTE Band7	LTE Band28	LTE Band38	LTE Band40	LTE Band41
Freq. Band[MHz] Uplink/Downlink	2500~2570 2620~2690	703~748 758~803	2570~2620	2300~2400	2496~2690
ARFCN range	UL:20750~21449 DL:2750~3449	UL:27210~27659 DL:9210~9659	UL/DL:37750 ~ 38249	UL/DL:38650 ~ 39649	UL/DL:39650 ~ 41589
Tx/Rx spacing (MHz)	120	55	0	0	0
Channel Bandwidth (MHz)	5/10/15/20	3/5/10/15/20	5/10/15/20	5/10/15/20	5/10/15/20
Modulation	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM
MS Power (dBm)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)	25.7~-39(↓)
Sensitivity (QPSK, BW 10MHz) (dBm))	-94.3	-94.8	-96.3	-96.3	-94.3

3. Product Function



Main Function

Item	Description	
OS	Android V8.1	
SM-M105F RF	GSM850 / GSM900 / DCS1800 WCDMA: B1/ B5/ B8 LTE: B1/ B3/ B5/ B8/ B20 / B38/ B40/ B41	
SM-M105G RF	GSM850 / GSM900 / DCS1800 WCDMA: B1/ B5/ B8 LTE: B1/ B3/ B5/ B7/ B8/ B20 / B38/ B40/ B41	
SM-M105M RF	GSM850 / GSM900 / DCS1800 / PCS1900 WCDMA: B1/ B2 / B4 / B5/ B8 LTE: B1/ B2 / B3/ B4 / B5/ B7/ B8/ B12 / B17 / B28	
SM-M105Y RF	GSM850 / GSM900 / DCS1800 WCDMA: B1/ B2 / B5/ B8 LTE: B1/ B3/ B5/ B7/ B8/ B28 / B38/ B40/ B41	
Battery	3400mAh	
Base Band	1.6GHz Octa	
Other RF	A-GPS (GPS, Glonass, Beidou, Qzss), BT4.2, USB 2.0, WIFI 802.11 b/g/n 2.4Ghz	
Camera	Dual Camera (13M : A/F, F1.9, Wide angle), (5M : F2.2, Ultra Wide angle) with LED Flash, VT Camera (5MP,FF,F2.0)	
LCD	6.22", HD+, 720x1520	
RAM	3GB/2GB	
ROM	3GB+32GB / 2GB+16GB	
Sensor	Accelerometer, Proximity Sensor	
Accessory	Charger: 5V/1A Data cable: 3.0pi, 0.8m(Type B/ USB-A)	

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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)

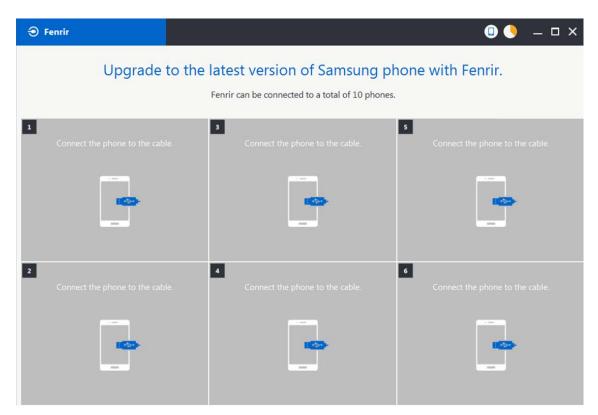
2) Input ID & password

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

⊕ 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 🛛 🔶 🛛 🗆 🗙
Upgrade	to the latest version of Samsung ph Fenrir can be connected to a total of 10 phones.	
1 Connecting to phone.	3 Connect the phone to the cable.	5 Connect the phone to the cable.
2 Connect the phone to the cab	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	The latest version of Samsung pl Fenrir can be connected to a total of 10 phones.	
2 Update to the latest version D1222165300qL2 XSG (3579) Galaxy Note8 (SM-N950F) Nougat(Android 7.1.1) Nougat(Android 7.1.1) Nougat(KorN950F7XU28QKG 0FXU28QKG/N950F7XU28QKG Will begin after 8 seconds SVC Connection S/W Update	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 >



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
Up	20 July 19	est version of Samsung ph ir can be connected to a total of 10 phones.	one with Fenrir.
63 % Nougat(An N950FXXU	ect phone.	Connect the phone to the cable.	Connect the phone to the cable.
2 Connect the phone	e to the cable.	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	to the latest version of Samsung pl Fenrir can be connected to a total of 10 phones	
1 Upgrade finished. Disconnect phone. D1222165552ygx XSG 35797 Salays Note (SM-N950F) Nougat(Android 21.1) N950FXXL28(KG/N950F)XXL21 OK >		S Connect the phone to the cable.
2 Connect the phone to the cab	e. 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





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"

😝 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 CP CP CSC USERDATA
	Mass D/L ►
Colin Community : http://mobilerndhub.sec.samsung.net/hub/site/odim	Start Reset Exit

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- 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.

📮 Odin3 v3.13			
Odin3			
ID:COM			
Log Options Pit	Tips - H	ex) G925F)	HOME binary ownload one binary "(BUILD_VER)_XXX_HOME.tar.md5" =XXU3DPA5_G925FOXA3DPA5_G925FXXU3DPA5_HOME.tar.md5 ownload BL + AP + CP + HOME_CSC
✓ Nand Erase□ Re-Partition		BL	3960FXXU1ARB7_CL13087450_QB17004700_REV01_user_low_ship.tar.md5
F. Reset Time		AP	XXU1ARB7_CL13087450_QB17004700_REV01_user_low_ship_meta.tar.md5
DeviceInfo	V	CP	/出니니리\#CP_G960FXXU1ARB7_CL717541_QB8985489_SIGNED.tar.md5
	V	CSC	960FOXM1ARB7_CL13087450_QB17004700_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/od</u>	<u>lin/</u>		



- 2. Enter into Download Mode
- Press Volume Down button and Volume Up button simultaneously.
- Please connect USB cable.
- Finally, Press Volume up button to Enter into Download mode.





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.

Ddina v3.13		
Odin3		
0:[COM3]		
Log Options Pit <pre> COSM> Please wait </pre> <pre> <pre> COSM> Checking MD5 finished Sucessfully COSM> Enter CS for MD5 COSM> Enter CS for MD5 COSM> Check MD5 Do not unplug the cable COSM> Enter CS for MD5 COSM> Enter CS COSM> E</pre></pre>	E	Tips - How to download HOME binary OLD model : Download one binary "(BUILD_VER)_XXX_HOME.tar.md5" ex) G925FXXU3DPA5_G925F0XA3DPA5_G925F0XU3DPA5_HOME.tar.md5 NEW model : Download BL + AP + CP + HOME_CSC Image: the state of the stat

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.

🖨 Odiu3 v3.13	
Odin3	
PAS S!	
ID:COM	
Log Options Pit <id:0 003=""> system.img <id:0 003=""> vendor.img <id:0 003=""> vendor.img <id:0 003=""> vendor.img <id:0 003=""> vendor.img <id:0 003=""> vendorem.bin <id:0 003=""> Transmission Complete <id:0 003=""> Now Writing Please wait about 2 minutes</id:0></id:0></id:0></id:0></id:0></id:0></id:0></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 BL 3960FXXU1ARB7_CL13087450_QB17004700_REV01_user_low_ship.tar.md W AP XXU1ARB7_CL13087450_QB17004700_REV01_user_low_ship_meta.tar.md
 <id:0 003=""> Receive Response from boot-loader</id:0> <id:0 003=""> modem_debug.bin</id:0> <id:0 003=""> Transmission Complete</id:0> <id:0 003=""> Now Writing Please wait about 2 minutes</id:0> <id:0 003=""> Receive Response from boot-loader</id:0> <id:0 003=""> cache.img</id:0> 	CP #HPOILEEWCP_G960FXXU1AR87_CL717541_Q88985489_SIGNED.tar.md V CSC 960FOXM1AR87_CL13087450_Q817004700_REV01_user_low_ship.tar.md
<pre><id:0 003=""> omr.img <id:0 003=""> odm.img <id:0 003=""> hidden.img <id:0 003=""> RQT_CLOSE !! <id:0 003=""> RES OK !! <id:0 003=""> Remain Port 0 <id:0 003=""> Remain Port 0 <id:0 003=""> Removed!! <osm> All threads completed. (succeed 1 / failed 0)</osm></id:0></id:0></id:0></id:0></id:0></id:0></id:0></id:0></pre>	USERDATA Mass D/L
Odin Community : http://mobilerndhub.sec.samsung.net/hub/site/community/	Start Reset Exit

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"
②Launcher	DASEUL_Launcher_v4.0.0 or higher -Uploaded on HHPsvc Notice
③ Runtime File	1. DASEUL_IMEI_ALL_Runtime_3.1.386.0_r00573.CAB or higher -Uploaded on HHPsvc Notice 2. Make 'ModelName' folder at the same position with launcher & Runtime file. DASEUL_IMEI_ALL_Runtime_3.1.386.0_r00573.CAB ASEUL_Launcher_v4.0.0.exe
Model File	SM-A920F_128DS(CSC)_IMEI_Ver_3.1.385.1.CAB Copy Model File under the 'SM-G8870' folder



6-3-2. IMEI writing Process

1. Run DASEUL_Launcher_v4	4.0.0
🚜 DASEUL_Launcher_v4.0.0.exe	
2. Select Service Mode	22
< Launcher Status >	MODE : Service -
No. Processing 1 ::: Start Normal Mode for Service :::	Status Complete
Select Extract Process [MODEL] Runtime SMD F/T BA F/T Calbration CAL 2d Final Auto Final Auto Final 2nd MEI WILAN CPPS B T 3. Click and Select folder	Extract & Run
DASEUL Launcher for Service Ver 3.0.10 Launcher Status >	
No. Processing Status 1 ::: Start Normal Mode for Service ::: Complete	MODE : Service
물더 잧아보기 Select Model Path	
Select Extract Process [MODEL] Runtime SMD F/T P8A F/T Calbraton CAL 2nd Final Auto Final 2nd PGPS B T	
	Extract & Run Close

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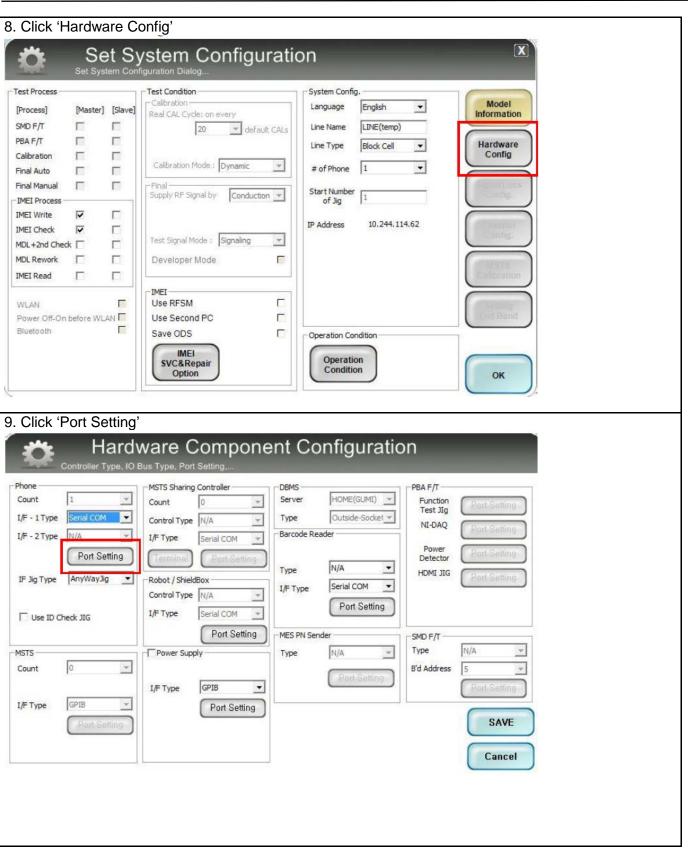
ncher Status	>	MODE :	Service	-
Processing		Status		
et: Extract Pro				
MODEL] Runtime	Model Name -	System	n Setting	
MDF/T BIAF/T				
alibration				
AL 2nd				
Final Auto Final 2nd				
MEI	GT-N7000_COMMON(CSC16G)_IMEI_N	/er_3.1.99.8.CAB		
WLAN				
SPS				
Т				
	MEI and click System	n Setting		uploss th
NCE YOU OM SECO DASEUL Launch	setup the setting, yo nd run of the IMEI pr er for Service Ver 3.0.10	n Setting ou don t have to ogram, check l	o do it again, IMEI and clic	unless th
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6. Check IMEI Write / IMEI Check and click IMEI SVC & Repair Option.						
🚓 Set System Configur	ation					
Set System Configuration Dialog						
Test Process [Master] [Slave] SMD F/T Image: Calibration SMD F/T Image: Calibration PBA F/T Image: Calibration Calibration 2ND Image: Calibration Mode : FDT Calibration 2ND Image: Calibration Mode : FDT Calibration 2ND Image: Calibration Mode : FDT Final Auto 2ND Image: Calibration Mode : FDT Final Auto 2ND Image: Calibration Mode : FDT Final Manual Image: Calibration Mode : FDT IMEI Write Image: Calibration Mode : FDT MDL +2nd Chec Image: Calibration Cou MDL +2nd Chec Image: Calibration Cou IMEI Read Image: Calibration Cou STA Write Image: Calibration Cou STA Write Image: Calibration Cou WLAN Image: Calibration Cou GPS Image: Calibration Cou Bluetooth Image: Calibration Cou Image: Calibration Cou Image: Calibration Cou Merge: Calibration C	Line Type 1Person Cell Smart Cloud Cell Signal Loss Config Signal					
7. Check 'SVC , User Ticket No' and click OK IMEI SVC && Repair Option	23					
FTR N/A Rework N/A	Korean SVC Write					
SVC User Ticket No SELA MIAMI N/A DEVELOPE Repair Board	SVC Factory Reset					
Romania SVC Argentina SKD	i over actory reset					
Initial PGM(SVC) Turkey						
🗌 ATT Rework 🔲 Slovakia SVC						
IMEI Clear (Factory) GED 2nd Inspection	1					
Outgoing Inspection Check SBSC(PBA) SVC						
	OK CANCEL					

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Phone K									
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Parity		No	*						
19553	_								
Stop Bit		1	*						
							SAV	Æ	
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Click Model Info and OK when pop-up shows MEI Write(M) - IMEI Check(M) Service DASEUL_v3.1.213.0 / IMEI(r00338) Phone 01 Status Press [START ALL] Button!!! Result None	
Phone 01 Status Press [START ALL] Button!!!	
Status Press [START ALL] Button!!!	
Result None	
Time 0.0 second (Average : 0.0 second) E-1/(//) Table 1 acts 0. Table 2 acts 0.0 (0)	
Fail(%) Total Test: 0, Test Fail: 0 (Rate: 0.0%)	
Phone 01 [Info] Phone01 [Info] Phone01 [Info] Phone01 [Version Info] [Fail] All	0(0.0%)
I Num, SI Num SI NUMSI N	
El Num(3rd)	
dEPersonal Lock .ock Setting .ode Field	
Network UnLock Key Reset	
IP UnLock Key Model Star	art
sto	op
Res	set
To Recipe Setting Testitem HW Setting Setting(Etc.) Etc. Etc. Data	0
Mto Recipe Setting Test Item HW Setting Setting[Etc.] Etc Func. Data Aturm e Step] :: [Machine Freq:100 ms] [DBMS Type : Outside-WebSVC] Level: [01-Error] [] R 2016-07-0	Help
Click OK	
out ComponentOne VSFlexGrid8 (Light)	
ComponentOne VSFlexGrid8 (Light) Version: 8,0,20101,261	
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	
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 nline http://www.componentone.com Check for online.	
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ComponentOne VSFlexGrid8 (Light) Version: Version: 8,0,20101,261 This dialog box will not be shown if you recompile the program using a licensed version of this Nine http://www.componentone.com Check for online Resellers Newsgroup Web store remail support, please write to: support.vsflex@componentone.com Contact Us	
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 nline http://www.componentone.com Check for online. Newsgroup Web store Resellers or email support, please write to: support, vsflex@componentone.com	

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<image/>		ODE and BUYER, then click Save button.
Image: Burger	Relei lo nnr:	SVC→IMEI Review to check SKU Code and buyer
	EI Writing Items	x
Software2 LPD Contents BM8 SKULCOOE BVVFR Material_Code Pactors Software2 Pactors Software2 Pactors Software3 Pactors	CSC	
LPO Contents BUYER BUYER BUYER Buyter Boot Boot Boot Boot Boot Boot Boot Boo		
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Input IMEI Number and click Apply	Wait for Reboot in SVC Ch	ieck 🗌 Recent List Check(OQC&IBI) 📄 Check IMEI Dupli [RB]
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Network UnLock Key Subet UnLock Key Master Key Master Key	Phone 01 Itusi Phone01 (Resulti Phone01 El Num,	Intel Phone01 [IME] Phone01 [Version Info] [Fail] All
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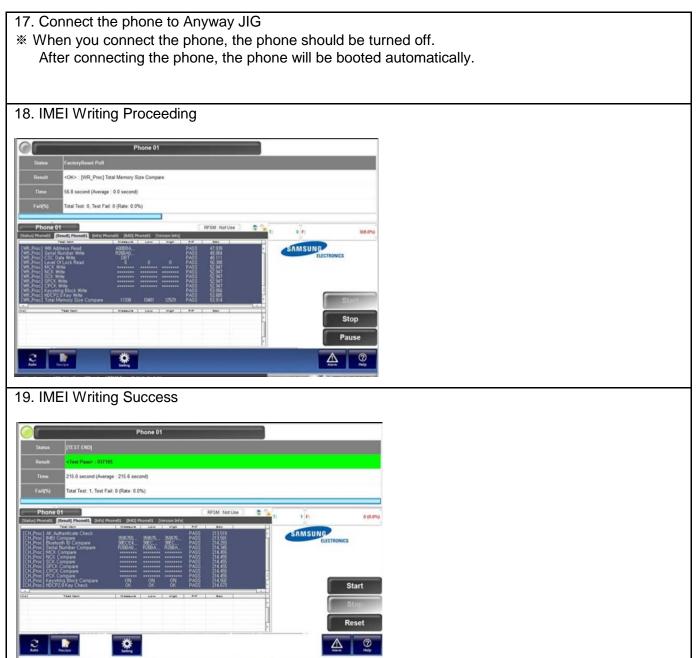
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16. (1) Click Start \rightarrow (2)Input IMEI writing ID and Password & OTP \rightarrow (3)Input Ticket No
DASEUL - GET-N27000 [JB: / Permission: Openfart]
Model Name MVVer REVO.7A SKU GT-N70002ADBT ID8 Serv HOME(GUM) Gel Type Block Cell Model Sky Ver N7000UBKU9 C3C N7000TFGKU7 Beyer DBT PC NO. 1'st
PGM Veri DASEUL_v2.2.3673.49 Process IMELWrite(M) - IMELCheck(M)
Phone 01
Status Press [START ALL] Button!!! Result None
Time 0.0 second (Average : 0.0 second)
Fait(%) Total Test: 0, Test Fait: 0 (Rate: 0.0%) 570 Login [33]
IStatus PhoneOL [Result PhoneOL [Infe] PhoneOL [Inf
MEPropalLuck SAMSUNG Electronics
Network UnLack Key 28 Subset UnLack Key
Master Key Ticket No 22 0
OK CWICE Reset
Auto Rotte Estra
- The Stell - I Marble French Must - CDBMS Type - Outlide Socied 1
※ OTP(One time Password) : OTP is valid for 6 hours.
× Off(One time rassword). Off is value for 0 hours.
After that, you can get new OTP by click the "Forgotten your IMEI OTP PW or
Crete new IMEI OTP PW" button.
\Rightarrow OTP Location : GSPN \rightarrow Knowledge \rightarrow HHP svc \rightarrow Home
HHP svc > HHP svc > HHP svc > HHP svc > HHP svc + HP svc + HHP svc + HP svc +
HOME OS / for Non-NASCA 32/64Bit OS) IMELOTP PASSWORD : Not available
Forgotten your IMELOTP PW or Create new IMELOTP PW
NEW IMELOTP PASSWORD : SLD12HBJ
확인

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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 (GH81-11962T)

✤ Table of test cables

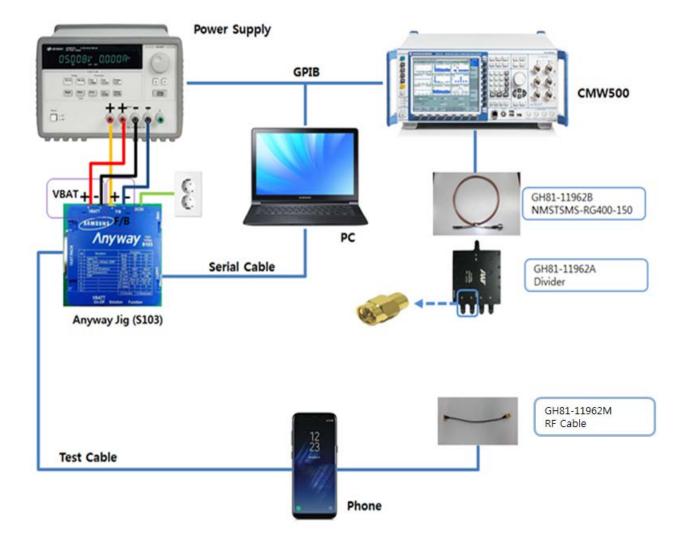
RF Cable (Manual)	GH81-11962M (2ea) 1.2T, 200mm		
4 Port Divider	GH81-11962A	GH81-11962B	GH81-11962E
	Divider	Divider Cable	50Ω terminator

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6. Level 1 Repair

Setting







6-4-2. RF Calibration Program

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

- B DASEUL_CAL_ALL_Runtime_3.1.348.0_r00600.CAB
- DASEUL_Launcher_v4.0.0.exe
- Model Name _OPEN_CALIBRATION_Ver_3.1.347.15.CAB

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

2	DASE	UL Launche	r Ver 4.0.0		8
<	< Launo	cher Status	>		
	No.	Processing		Status	
	1	::: Start N	ormal Mode :::	Complete	
	Select	Extract Pro	0(255		
		Intime	DASEUL_Runtime_Ver_3.1.348.0.CAB		
	V Nu	incine	DASEDE_Kulturite_Vel_3.1.540.0.0AB		
		ID F/T			
0		BA F/T			
		libration	00600 Model Name OPEN_CALIBRATION_V	/er_3.1.347.15.0	2
		L 2nd			_
	Fin	nal Auto			
	Fin	nal 2nd			
	IM	EI			
		LAN			
	GP	S			
	ВТ	Г			
			(2) Extract & I	Run Close	



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

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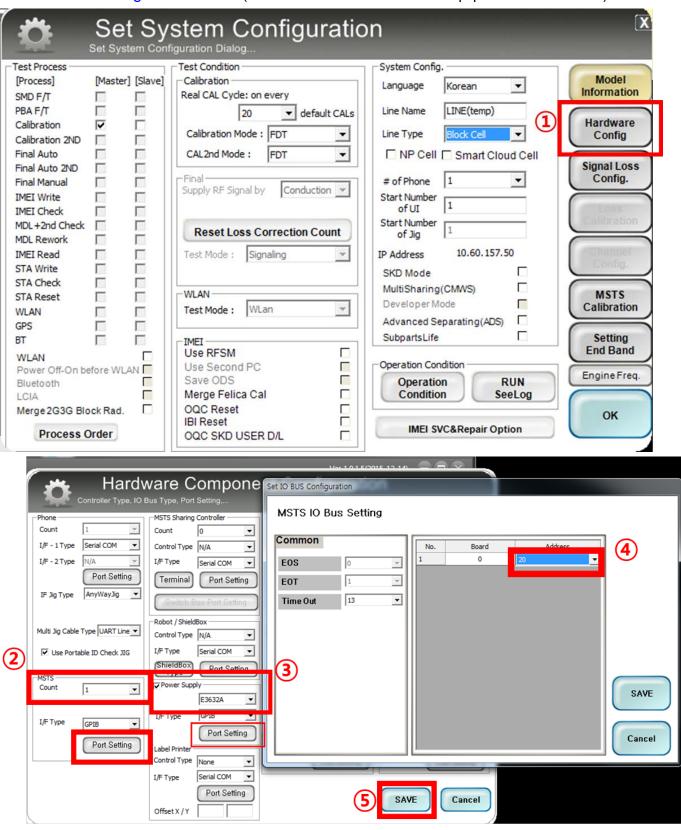
4. Change the Line Type to 'Block Cell' and disable 'Smart Cloud Cell'.

		on	X
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 CALs	Line Name LINE(temp)	
Calibration	Calibration Mode : FDT	Line Type Block Cell 👻	Hardware Config
Calibration 2ND			Comig
Final Auto	CAL2nd Mode : FDT 💌	NP Cell C Smart Cloud Cell	Signal Loss
Final Auto 2ND	- Einal	# of Phone 1	Config.
Final Manual 🔲 🕅 IMEI Write 🔲	Supply RF Signal by Conduction 💌	Start Number	
IMEI Check		of UI 1	Loss
MDL+2nd Check		Start Number	Galibration
MDL Rework	Reset Loss Correction Count	of Jig 1	
IMEI Read	Test Mode : Signaling	IP Address 10.60.157.50	TIRANSET
STA Write		SKD Mode	Config.
STA Check 🔲 🗐		MultiSharing(CMWS)	
STA Reset 🔽	WLAN	Developer Mode	MSTS
WLAN T	Test Mode : WLan	_	Calibration
GPS 🔽		Advanced Separating(ADS)	
вт 🗆 Г	IMEI	SubpartsLife	Setting End Band
WLAN	Use RFSM Use Second PC	Operation Condition	End Dand
Power Off-On before WLAN	Use Second PC Save ODS		Engine Freq.
Bluetooth	Merge Felica Cal	Operation RUN Condition SeeLog	
Merge 2G3G Block Rad.	OQC Reset		
interge 2000 browning.	IBI Reset		ОК
Process Order	OQC SKD USER D/L	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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7			
🕂 📥 Set Sv	stem Configuratio	n	X
	figuration Dialog		
Test Process	Test Condition	System Config.	
[Process] [Master] [Slave]	Calibration		Model
SMD F/T	Real CAL Cycle: on every	Language Korean 💌	Information
PBA F/T	20	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 Supply RF Signal by Conduction	# of Phone 1	Config.
IMEI Write	Soppy for Signarby	Start Number	
IMEI Check		of UI 1 Start Number	Galibration
MDL+2nd Check	Reset Loss Correction Count	of Jig 1	
MDL Rework	Test Made	IP Address 10.60.157.50	Contraction of the
IMEI Read STA Write	Test Mode : Signaling	-	Config.
STA Check		SKD Mode	\leq
STA Reset	WLAN	MultiSharing(CMWS)	MSTS
WLAN	Test Mode : WLan	Developer Mode	Calibration
GPS		Advanced Separating(ADS)	
вт П	IMEI	SubpartsLife	Setting
WLAN 🗖	Use RFSM		End Band
Power Off-On before WLAN	Use Second PC	Operation Condition	Engine
Bluetooth	Save ODS	Operation RUN	Engine Freq.
LCIA	Merge Felica Cal	Condition SeeLog	
Merge 2G3G Block Rad.	OQC Reset		ОК
Process Order	IBI Reset	IMEI SVC&Repair Option	
DASEUL - SM-G960F			
			Cell Tures — Disek Cell
Model Model Name	H/W Ver MP 0.900 SKU S/W Ver None C SC	XX DB Serv HOME(GUMI) 1 Buyer XX	Cell Type Block Cell PC NO. NONE
Model Model Name Process Calibration(M)	HW Ver MP 0.900 SKU SW Ver None CSC		
Model Model Name	HW Ver MP 0.900 SKU SW Ver None CSC		
Model Model Name Process Calibration(M)	HW Ver MP 0.900 SKU SW Ver None CSC	1 Buyer XX	
Model Model Name Process Calibration(M) PGM Ver DASEUL_v3.1.348.0 / Calibration	HW Ver MP 0.900 SKU SW Ver None CSC (r00600)	1 Buyer XX	PC NO. NONE
Model Model Name Process Calibration(M)	HW Ver MP 0.900 SKU SW Ver None CSC (r00600)	1 Buyer XX	PC NO. NONE
Model Model Name Process Calibration(M) PGM Ver DASEUL_v3.1.348.0 / Calibration	HW Ver MP 0.900 SKU SW Ver None CSC (r00600)	1 Buyer XX	PC NO. NONE
Model Moccel Name Process Calibration(M) PGM Ver DASEUL_v3.1.348.0 / Calibration Status Press [START ALL] Result None	HW Ver MP 0.900 SKU SW Ver None CSC (r00600) Phone 01 Button!!!	1 Buyer XX	PC NO. NONE
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Model Mociel Name Process Calibration(M) PGM Ver DASEUL_V3.1.348.0 / Calibration Status Press [START ALL] Result None Time 0.0 second (Average)	HW Ver MP 0.900 SKU SW Ver None CSC (r00600) Phone 01 Button!!!	1 Buyer XX	PC NO. NONE
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Model Mociel Name Process Calibration(M) PGM Ver DASEUL_v3.1.348.0 / Calibration Status Press [START ALL] Result None Time 0.0 second (Average Fail(%) Total Test: 0, Test Fail(%) Phone 01 [Info] Phone01 [Status] Phone01 [Result] Phone01	HW Ver MP 0.900 SKU SW Ver None CSC SW Ver None CSC Phone 01 Button!!!	1 Buyer XX CUR CHK Path Loss M	PC 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