

2. Specification

2-1. GSM General Specification

	GSM850	EGSM 900	DCS1800	PCS1900	WCDMA 2100	WCDMA 1900	WCDMA 900	WCDMA 850
Freq. Band[MHz] Uplink/ Downlink	824~849 869~894	880~915 925~960	1710~1785 1805~1880	1850~1910 1930~1990	1922~1977 2112~2167	1852~1907 1932~1987	880~915 925~960	824~849 869~894
ARFCN range	128~251	0~124 & 975~1023	512~885	512~810	UL: 9612~9888 DL: 10562~10838	UL: 9262~9538 DL: 9662~9938	UL: 2712~2863 DL: 2937~3088	UL: 4132~4233 DL: 4357~4458
Tx/Rx spacing	45MHz	45MHz	95MHz	80MHz	190MHz	80MHz	45MHz	45MHz
Mod. Bit rate/ Bit Period	270.833kbp s 3.692us	270.833kbp s 3.692us	270.833kbp s 3.692us	270.833kbp s 3.692us	3.84Mcps	3.84Mcps	3.84Mcps	3.84Mcps
Time Slot Period/ Frame Period	576.9us 4.615ms	576.9us 4.615ms	576.9us 4.615ms	576.9us 4.615ms	FrameLength: 10ms Slotlength: 0.667ms	FrameLength: 10ms Slotlength: 0.667ms	FrameLength: 10ms Slotlength: 0.667ms	FrameLength: 10ms Slotlength: 0.667ms
Modulation	0.3GMSK	0.3GMSK	0.3GMSK	0.3GMSK	QPSKHQPSK	QPSKHQPSK	QPSKHQPSK	QPSKHQPSK
MS Power	33dBm~5dBm	33dBm~5dBm	30dBm~0dBm	30dBm~0dBm	24dBm~ -50dBm	24dBm~ -50dBm	24dBm~ -50dBm	24dBm~ -50dBm
Power Class	5pcl ~ 19pcl	5pcl ~ 19pcl	0pcl ~ 15pcl	0pcl ~ 15pcl	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)
Sensitivity	-102dBm	-102dBm	-100dBm	-100dBm	-106.7dBm	-106.7dBm	-106.7dBm	-106.7dBm
TDMA Mux	8	8	8	8	8	8	8	8
Cell Radius	35Km	35Km	2Km	2Km	2Km	2Km	2Km	2Km

2. Specification

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±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

2. Specification

2-3. LTE General Specification

	LTE Band1	LTE Band3	LTE Band5	LTE Band7	LTE Band8	LTE Band 28	LTE Band 38	LTE Band 40
Freq. Band[MHz] Uplink/ Downlink	1920~1980 2110~2170	1710~1785 1805~1880	824~849 869~894	2500~2570 1805~1880	2500~2570 1805~1880	703~748 758~803	2570~2620	2300~2400
ARFCN range	UL: 18000~18599 DL: 0~599	UL: 19200~19950 DL: 1805~1880	UL: 20400~20649 DL: 2400~2649	UL: 20750~21449 DL: 2750~3449	UL: 21450~21799 DL: 3450~3799	UL: 21450-21799 DL: 27260~27610	37750~38249	38650~39649
Tx/Rx spacing	190MHz	95MHz	45MHz	120MHz	45MHz	55MHZ	-	-
Channel Bandwidth	5/10/15/20 MHz	1.4/3/5/10/ 15/20 MHz	1.4/3/5/10 MHz	1.4/3/5/10/ 15/20 MHz	5/10/15/20 MHz	1.4/3/5/10 MHz	5/10/15/20 MHz	5/10/15/20 MHz
Modulation	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM	QPSK,16/64QAM
MS Power (MPR)	-35~25.7 dBm	-35~25.7 dBm	-35~25.7 dBm	-35~25.7 dBm	-35~25.7 dBm	-35~25.7 dBm	-35~25.7 dBm	-35~25.7 dBm
Sensitivit (QPSK) (BW 10MHz)	-94 dBm	-92 dBm	-92 dBm	-95dBm	-95dBm	-94dBm	-97dBm	-97dBm
Cell Radius	>5Km	>5Km	>5Km	>5Km	>5Km	>5Km	>5Km	>5Km

3. Operation Instruction and Installation

Main Function

Item	Description
OS	Android V 6.0 (Marshmallow)
RF	LTE Cat.4 (150/50Mbps)
Battery	2,600 mAh
Base Band	1.4 GHz Quad
Other RF	A-GPS, Glonass, BT4.2, USB 2.0, WIFI 802.11 b/g/n 2.4 GHz
Camera	8 MP Main CAM, 5 MP Front CAM
LCD	5.0" qHD, 540x960
RAM	12Gb RAM + 8GB eMMC
Sensor	Accelerometer, Proximity
Accessory	Charger: 5V/ 1.0A Data cable: 3.0pi, 0.8m Ear phone: 3.5pi, 4pin

9. Reference Abbreviate

Reference Abbreviate

- **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

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.

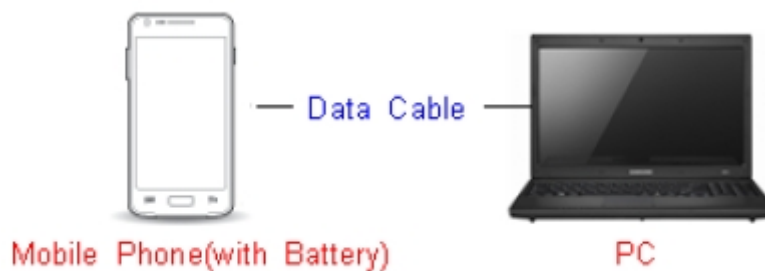
6. Level 1 Repair

6-1. S/W installation

6-1-1. Required items in order to install S/W

- Installation program: Downloader Program ([Odin3 v3.10.6.exe](#))
- SM-G532G Mobile Phone
- Data Cable (GH39-01810A)
- JIG BOX (GH81-11888A)
- JIG Cable (GH81-10952A)
- Adapter (GH81-11888K)
- Serial Cable
- Mobile device specific S/W: Binary files

※ Settings

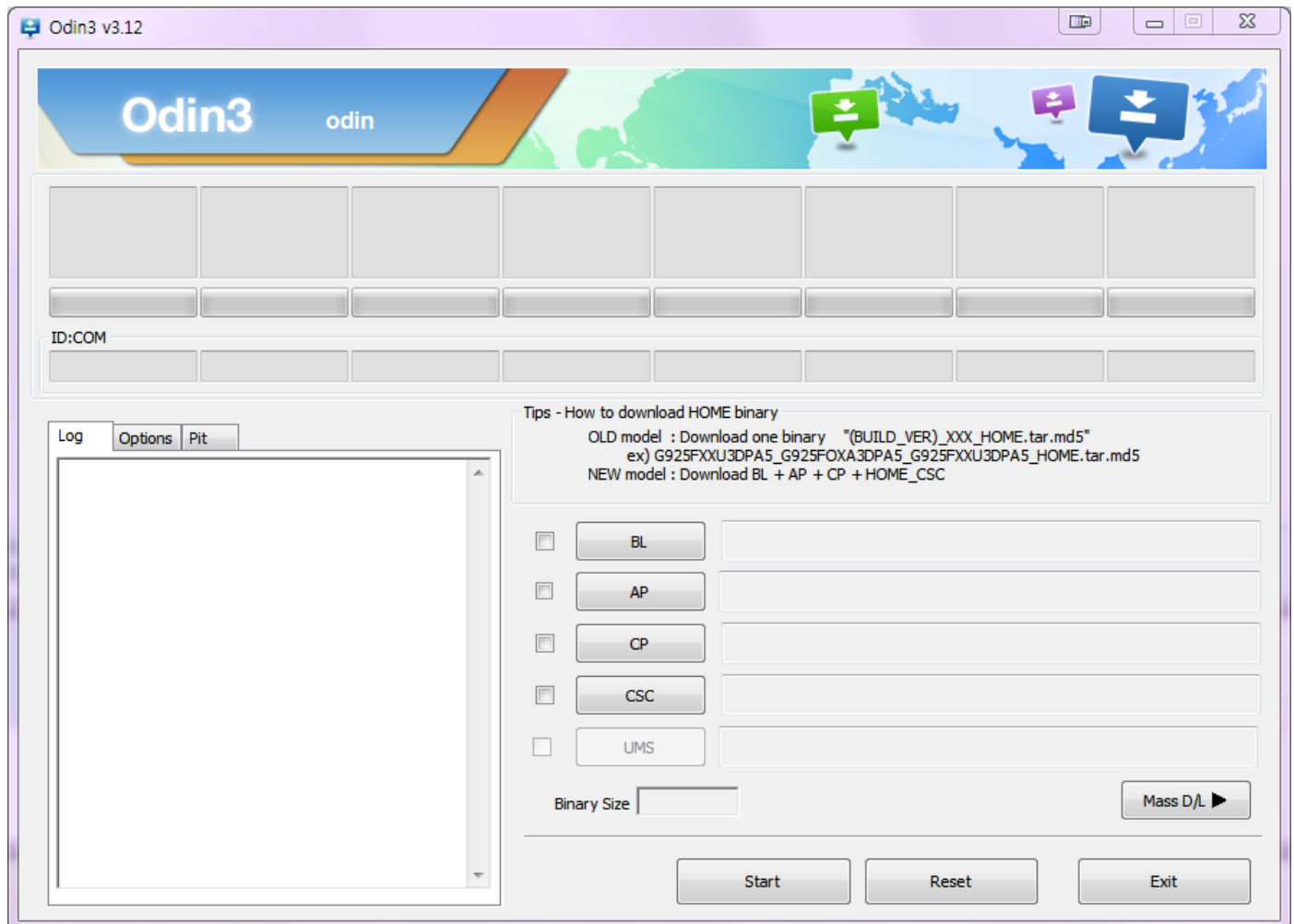


DATA CABLE : GH39-01580N

6. Level 1 Repair

6-1-2. S/W Installation Program (Downloader program)

- Open up the S/W Installation Program by executing the "**Odin3 v3.12.1.exe**"

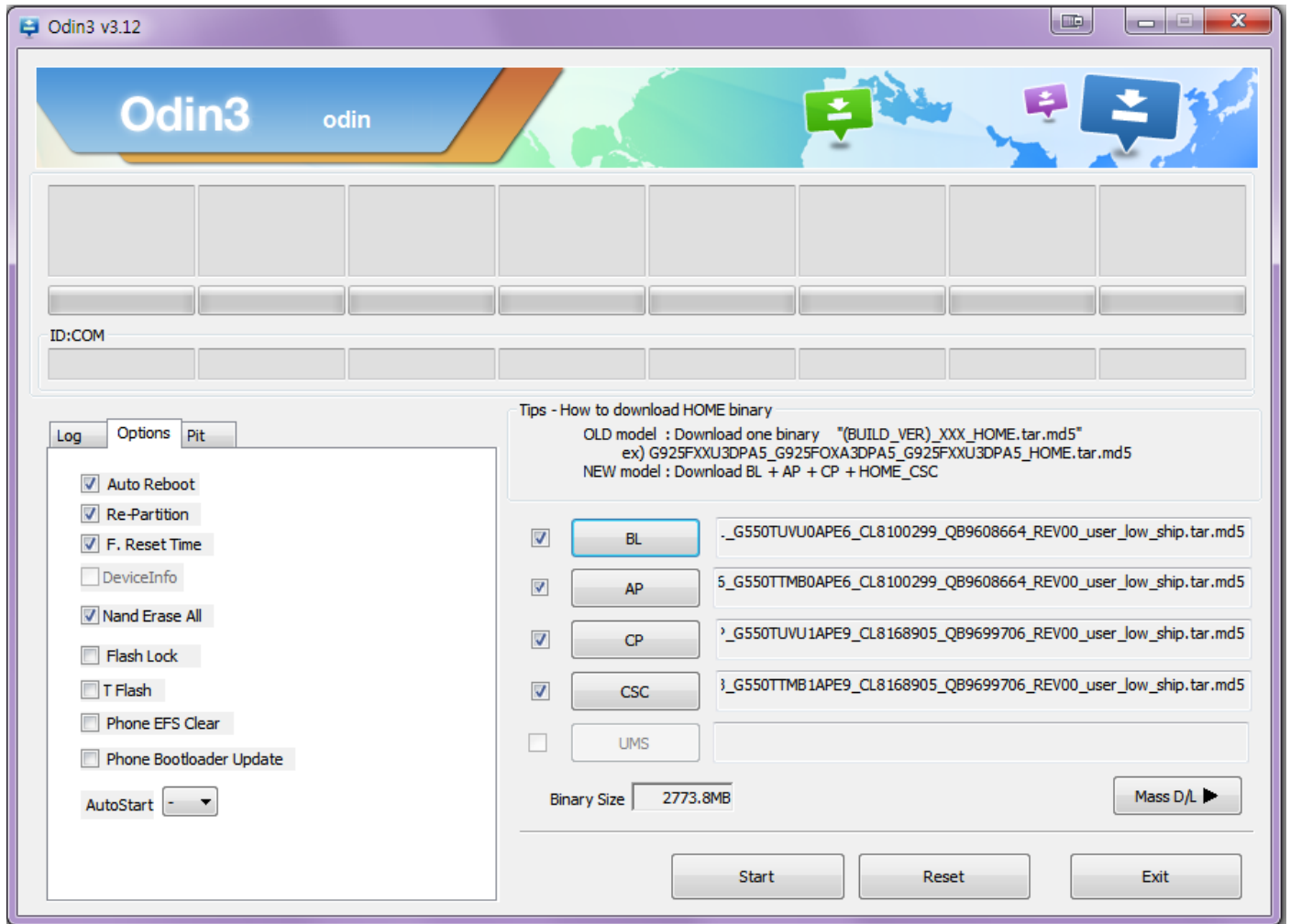


6. Level 1 Repair

1. Enable the check mark by click on the following options,

- Check Auto Reboot, Re-Partition, and F. Reset Time
- Check PIT
- Check BOOTLOADER, PDA, PHONE, and CSC Files

* Note : "Odin v3.10 or above" checks MD5 checksum just after file selection.



6. Level 1 Repair

2. Enter into Download Mode

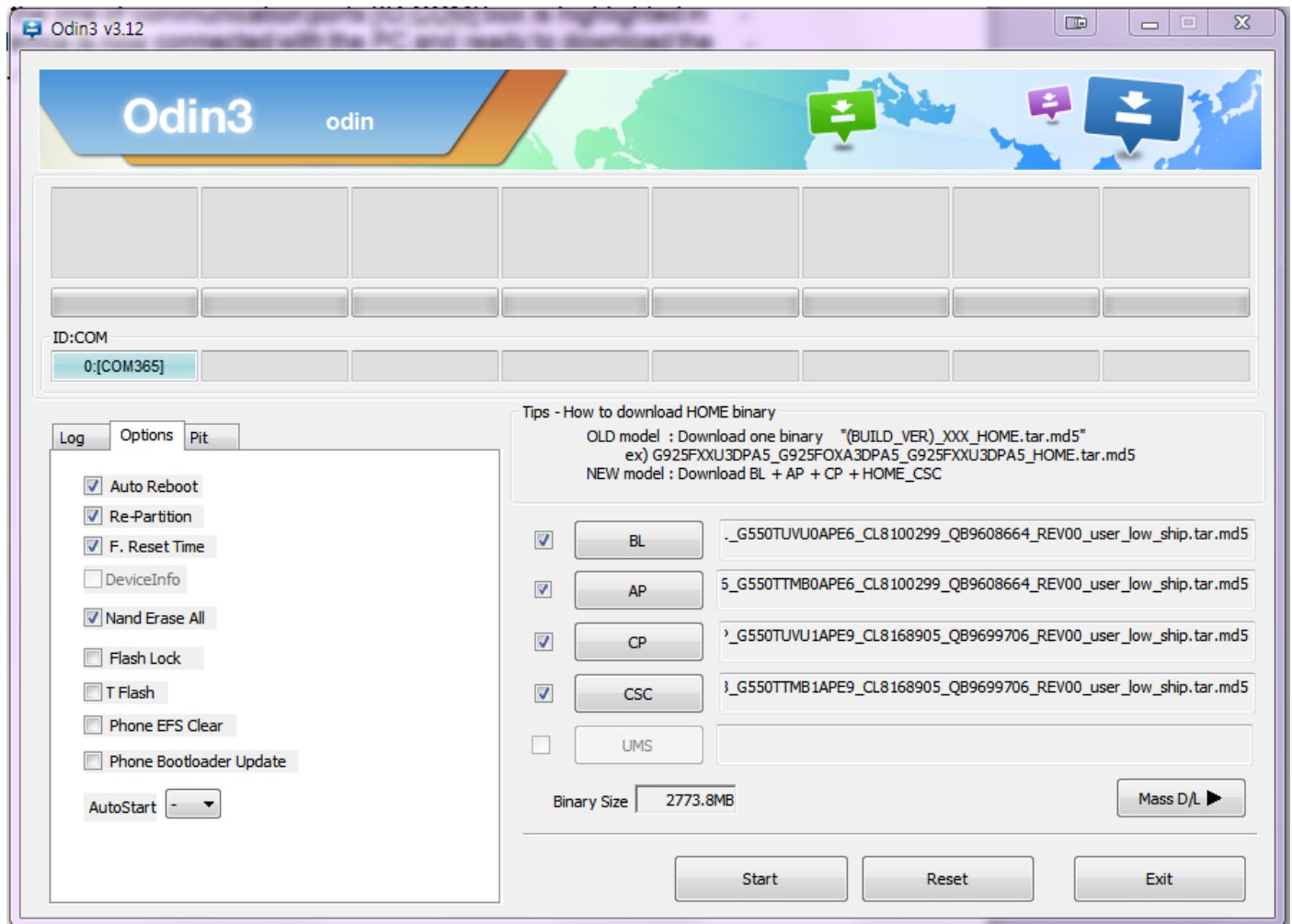
- Enter into Download Mode by pressing Volume Down button, Home button and ON/OFF Button simultaneously followed by pressing Volume up button as a direction of the phone.



6. Level 1 Repair

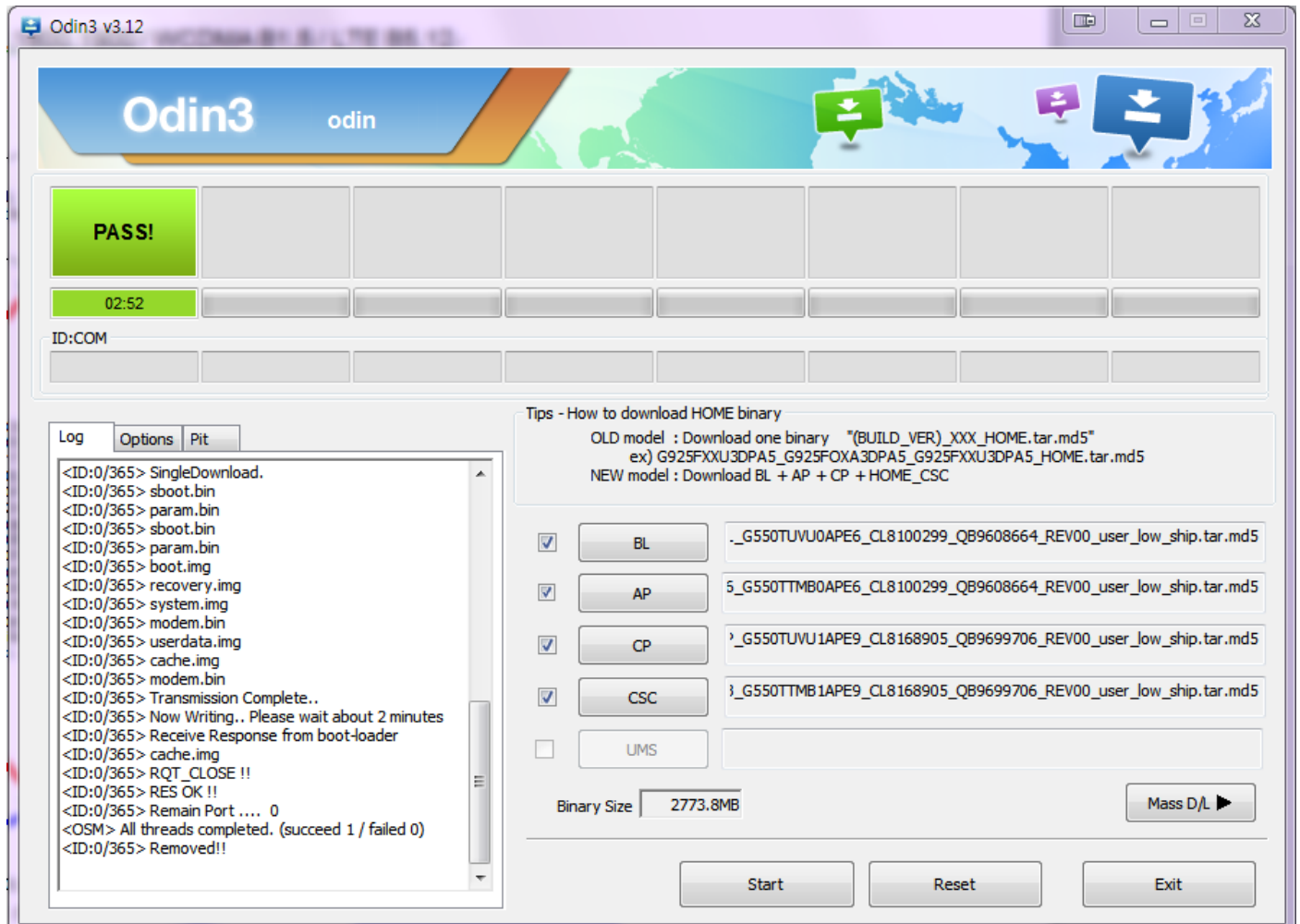
3. Connect the device to PC via Data Cable.

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.



6. Level 1 Repair

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 Reset by Settings → Accounts → Backup and reset

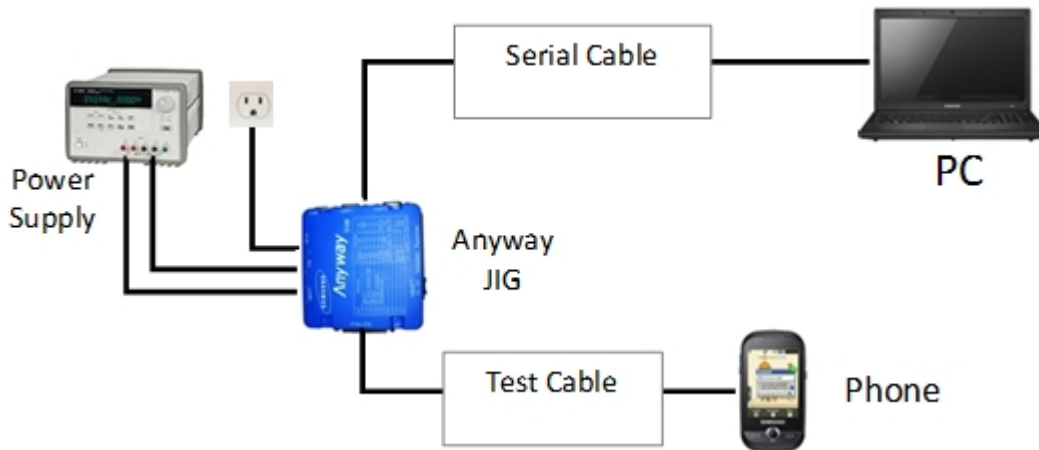
6. Level 1 Repair

6-2 IMEI writing

6-2-1 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



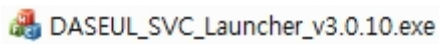
- S/W

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_25 or higher -Uploaded on HHPsvc Notice
③ Runtime File	1. DASEUL_Runtime_Ver_3.1.139.0.CAB or higher -Uploaded on HHPsvc Notice 2. Make 'ModelName' folder at the same position with launcher & Runtime file.
④ Model File	Copy Model File under the 'Model Name' folder

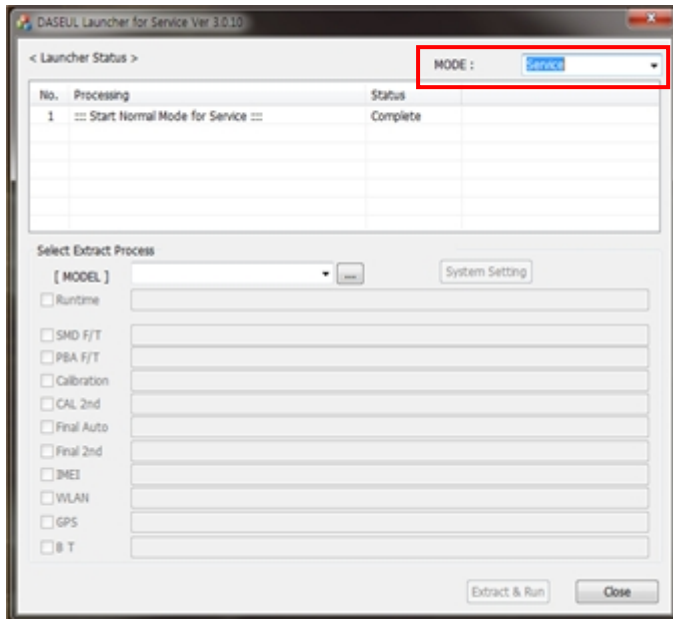
6. Level 1 Repair


6-2-2 IMEI writing Process

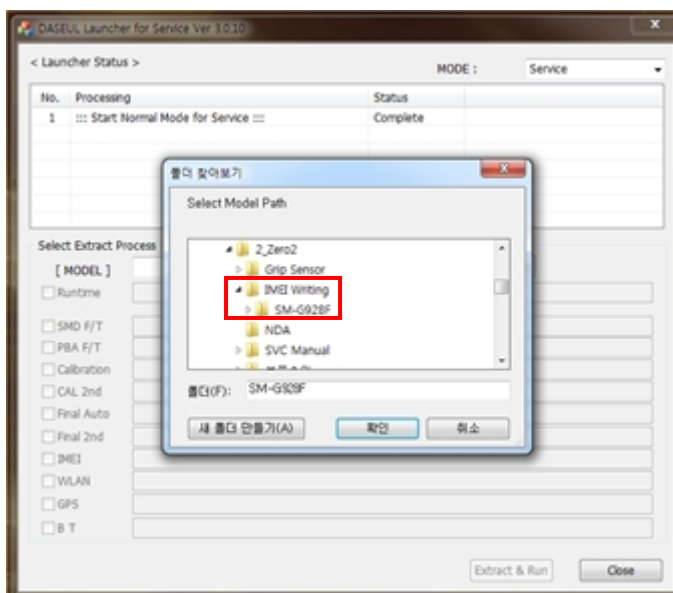
1. Run DASEUL_SVC_Launcher_v3.0.10.exe



2. Select Service Mode

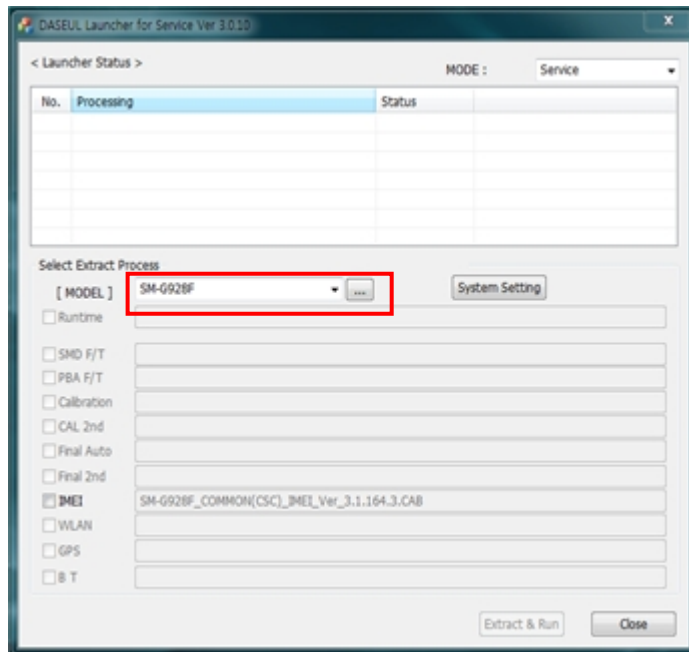


3. Click  and Select folder where the Launcher exists



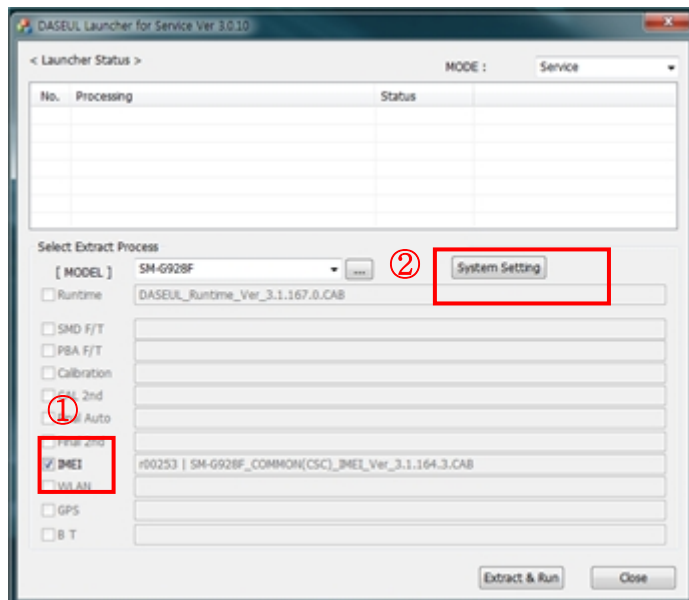
6. Level 1 Repair

4. Select Model



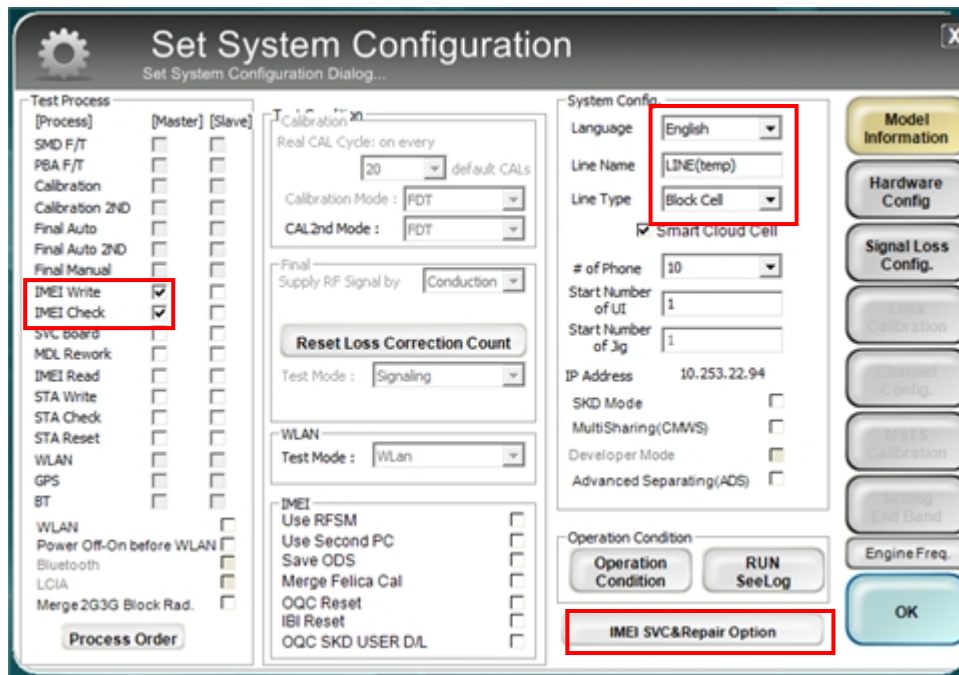
5. Check IMEI and click 'System Setting'

※ Once you setup the setting, you don't have to do it again, unless there is change. From second run of the IMEI program, check IMEI and click 'Extract & Run'.

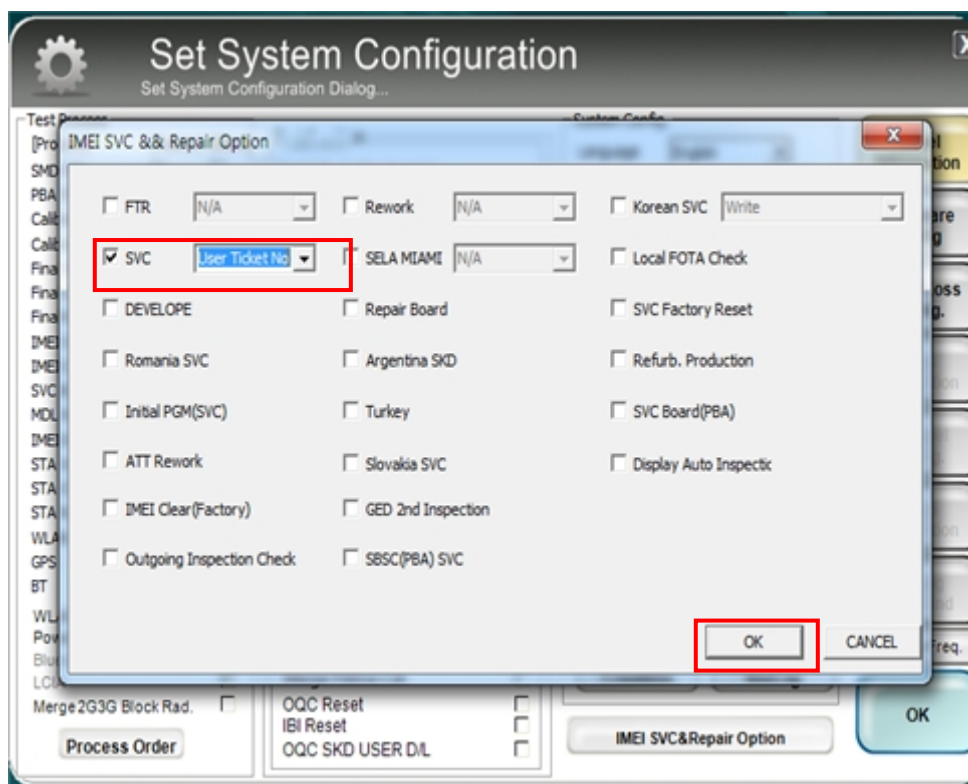


6. Level 1 Repair

6. Check 'IMEI Write / IMEI Check', and disable 'smart cloud cell' and click 'IMEI SVC & Repair Option'

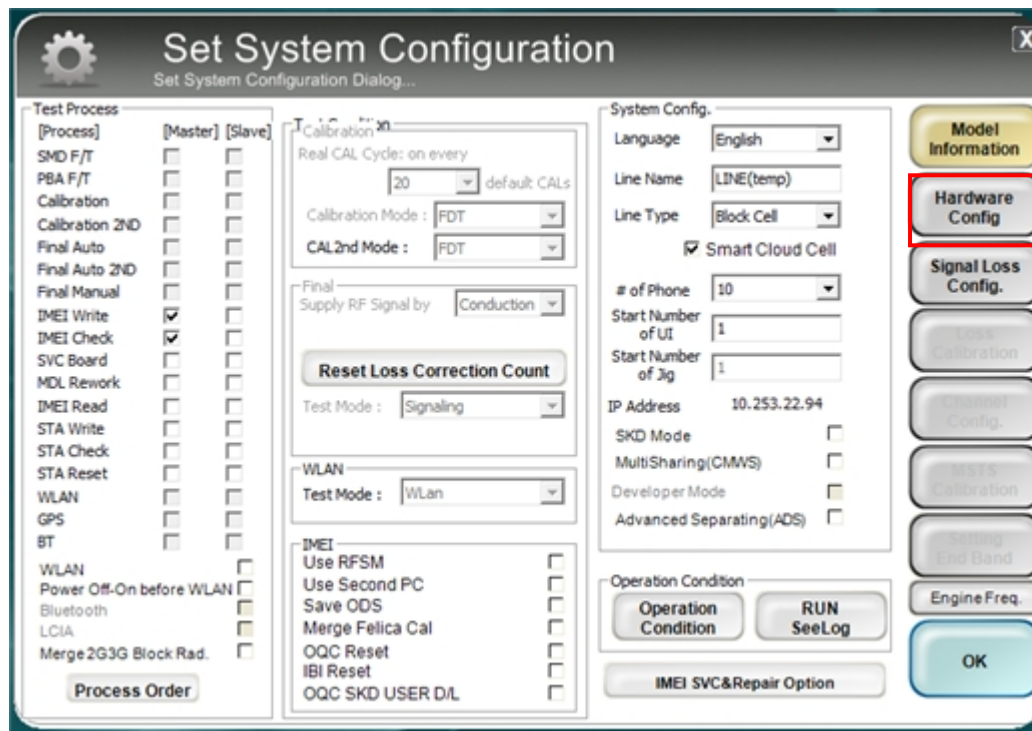


7. Check 'SVC , User Ticket No' and click OK



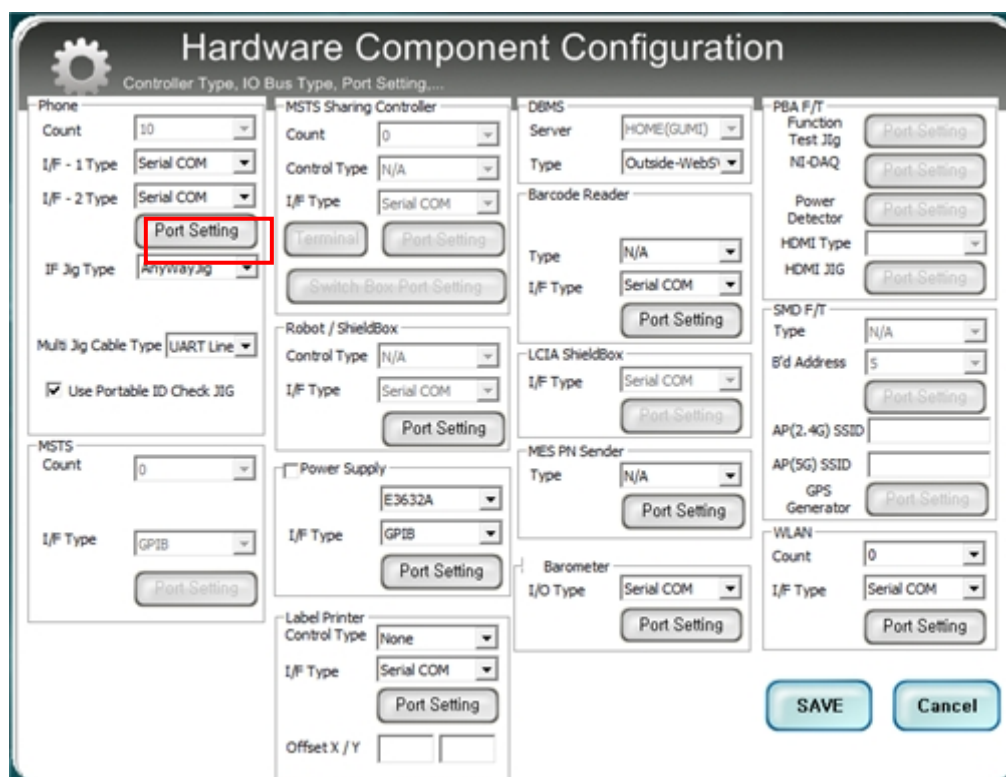
6. Level 1 Repair

8. Click 'Hardware Config'



The 'Set System Configuration' dialog box is shown. It has a title bar with a gear icon and the text 'Set System Configuration Dialog...'. The main area is divided into several sections. On the left, there is a 'Test Process' section with a list of items and checkboxes for 'Master' and 'Slave' modes. The 'Master' column has checkboxes for SMD F/T, PBA F/T, Calibration, Calibration 2ND, Final Auto, Final Auto 2ND, Final Manual, IMEI Write, IMEI Check, SVC Board, MDL Rework, IMEI Read, STA Write, STA Check, STA Reset, WLAN, GPS, BT, WLAN, Power Off-On before WLAN, Bluetooth, LCIA, and Merge 2G3G Block Rad. The 'Slave' column has checkboxes for the same items. Below this is a 'Process Order' button. The 'Calibration' section has a 'Real CAL Cycle: on every' dropdown set to '20', a 'default CALS' label, and 'Calibration Mode' and 'CAL2nd Mode' dropdowns both set to 'FDT'. The 'Final' section has a 'Supply RF Signal by' dropdown set to 'Conduction' and a 'Reset Loss Correction Count' button. The 'Test Mode' dropdown is set to 'Signaling'. The 'WLAN' section has a 'Test Mode' dropdown set to 'Wlan'. The 'IMEI' section has checkboxes for 'Use RFSM', 'Use Second PC', 'Save ODS', 'Merge Felica Cal', 'OQC Reset', 'IBI Reset', and 'OQC SKD USER D/L'. The 'System Config.' section has a 'Language' dropdown set to 'English', a 'Line Name' dropdown set to 'LINE(temp)', a 'Line Type' dropdown set to 'Block Cell', a checked 'Smart Cloud Cell' checkbox, a '# of Phone' dropdown set to '10', 'Start Number of UI' and 'Start Number of Jig' text boxes both containing '1', an 'IP Address' text box containing '10.253.22.94', and checkboxes for 'SKD Mode', 'MultiSharing(CMWS)', 'Developer Mode', and 'Advanced Separating(ADS)'. The 'Operation Condition' section has 'Operation Condition' and 'RUN SeeLog' buttons. Below this is an 'IMEI SVC&Repair Option' button. On the right side, there is a vertical stack of buttons: 'Model Information', 'Hardware Config' (highlighted with a red box), 'Signal Loss Config.', 'Loss Calibration', 'Channel Config.', 'MSTS Calibration', 'Setting End Band', 'Engine Freq.', and 'OK'.

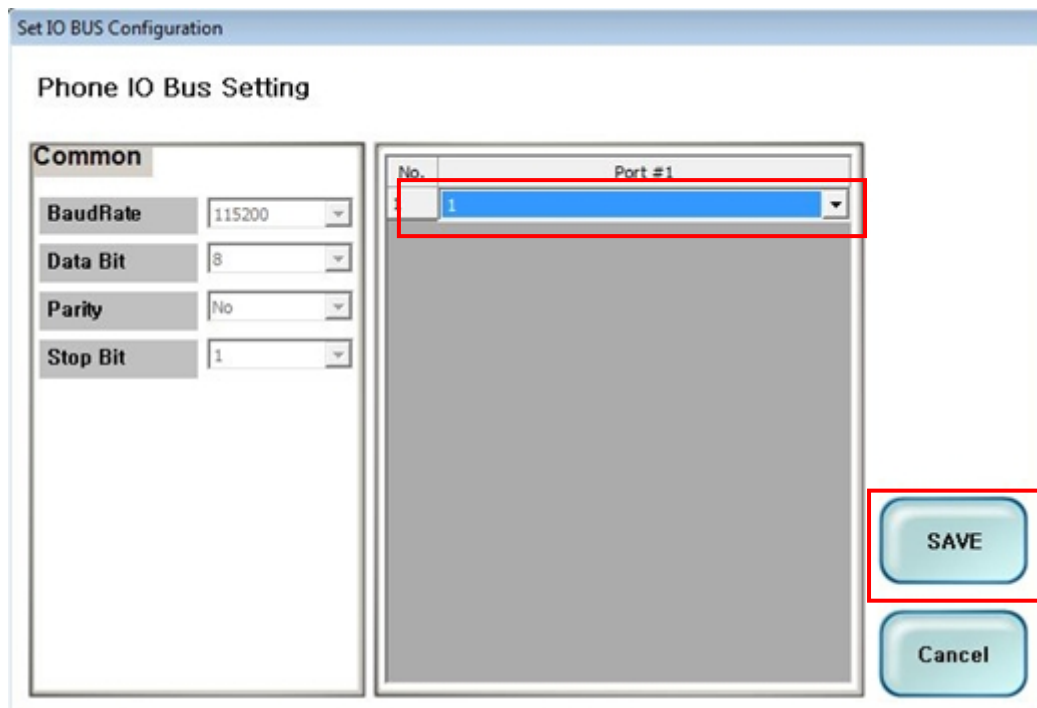
9. Click 'Port Setting'



The 'Hardware Component Configuration' dialog box is shown. It has a title bar with a gear icon and the text 'Hardware Component Configuration'. The main area is divided into several sections. The 'Phone' section has a 'Count' dropdown set to '10', 'I/F - 1 Type' and 'I/F - 2 Type' dropdowns both set to 'Serial COM', and an 'I/F Jig Type' dropdown set to 'AnyWayJig'. Below this is a 'Multi Jig Cable Type' dropdown set to 'UART Line' and a checked 'Use Portable ID Check JIG' checkbox. The 'MSTS' section has a 'Count' dropdown set to '0' and an 'I/F Type' dropdown set to 'GPB'. The 'MSTS Sharing Controller' section has a 'Count' dropdown set to '0', a 'Control Type' dropdown set to 'N/A', and an 'I/F Type' dropdown set to 'Serial COM'. Below this is a 'Terminal' button and a 'Switch Box Port Setting' button. The 'Robot / ShieldBox' section has a 'Control Type' dropdown set to 'N/A' and an 'I/F Type' dropdown set to 'Serial COM'. Below this is a 'Port Setting' button. The 'Power Supply' section has a dropdown set to 'E3632A' and an 'I/F Type' dropdown set to 'GPB'. Below this is a 'Port Setting' button. The 'Label Printer' section has a 'Control Type' dropdown set to 'None' and an 'I/F Type' dropdown set to 'Serial COM'. Below this is a 'Port Setting' button. The 'DBMS' section has a 'Server' dropdown set to 'HOME(GUMI)' and a 'Type' dropdown set to 'Outside-WebS'. Below this is a 'Barcode Reader' section with a 'Type' dropdown set to 'N/A' and an 'I/F Type' dropdown set to 'Serial COM'. Below this is a 'Port Setting' button. The 'LCIA ShieldBox' section has an 'I/F Type' dropdown set to 'Serial COM'. Below this is a 'Port Setting' button. The 'MES PN Sender' section has a 'Type' dropdown set to 'N/A'. Below this is a 'Port Setting' button. The 'Barometer' section has an 'I/O Type' dropdown set to 'Serial COM'. Below this is a 'Port Setting' button. The 'PBA F/T' section has a 'Function Test Jig' dropdown set to 'NI-DAQ', a 'Power Detector' dropdown set to 'HDMI Type', and an 'HDMI JIG' dropdown set to 'HDMI JIG'. Below this is a 'Port Setting' button. The 'SMD F/T' section has a 'Type' dropdown set to 'N/A', an 'B'd Address' dropdown set to '5', and an 'AP(2.4G) SSID' text box. Below this is a 'Port Setting' button. The 'AP(5G) SSID' text box is empty. Below this is a 'Port Setting' button. The 'GPS Generator' section has a 'WLAN' dropdown set to '0' and an 'I/F Type' dropdown set to 'Serial COM'. Below this is a 'Port Setting' button. At the bottom right, there are 'SAVE' and 'Cancel' buttons.

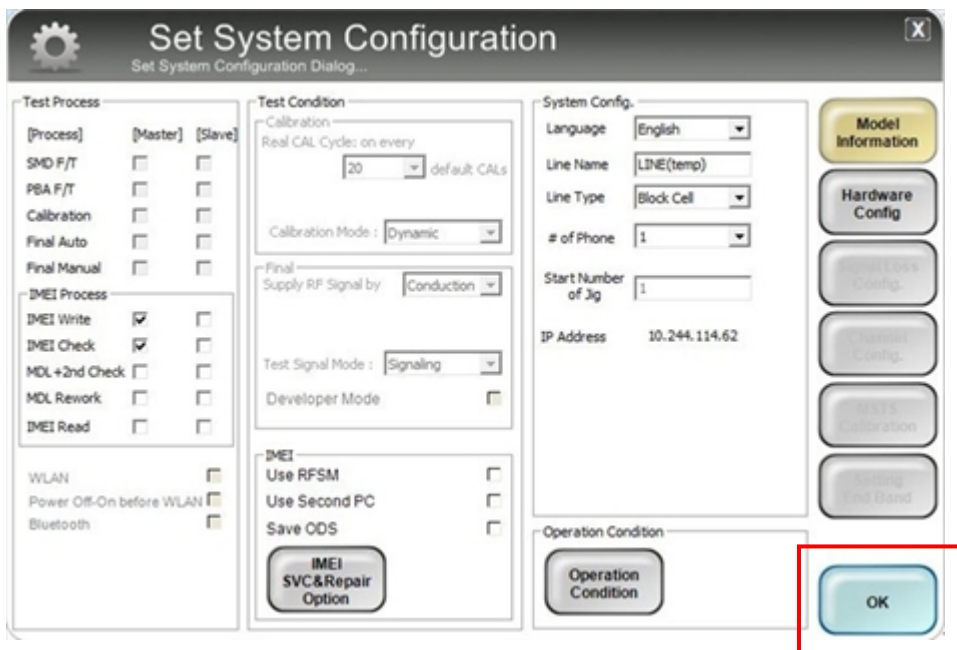
6. Level 1 Repair

10. Select Port Number and SAVE



The image shows a dialog box titled "Set IO BUS Configuration". It has a tab labeled "Phone IO Bus Setting". On the left, under the "Common" tab, there are four settings: "BaudRate" set to 115200, "Data Bit" set to 8, "Parity" set to No, and "Stop Bit" set to 1. On the right, there is a table with two columns: "No." and "Port #1". The first row of the table has the value "1" in the "No." column, which is highlighted with a blue selection bar. A red rectangle is drawn around this selection. At the bottom right of the dialog, there are two buttons: "SAVE" and "Cancel". The "SAVE" button is highlighted with a red rectangle.

11. Click OK to proceed



The image shows a dialog box titled "Set System Configuration". It has a tab labeled "Set System Configuration Dialog...". The dialog is divided into several sections: "Test Process" (with checkboxes for SMD F/T, PSA F/T, Calibration, Final Auto, Final Manual, IMEI Write, IMEI Check, MDL+2nd Check, MDL Rework, IMEI Read, WLAN, Power Off-On before WLAN, and Bluetooth), "Test Condition" (with a dropdown for "Real CAL Cycles on every" set to 20, a dropdown for "Calibration Mode" set to Dynamic, a dropdown for "Final Supply RF Signal by" set to Conduction, a dropdown for "Test Signal Mode" set to Signaling, and a checkbox for "Developer Mode"), "System Config." (with a dropdown for "Language" set to English, a text field for "Line Name" set to LINE(temp), a dropdown for "Line Type" set to Block Cell, a dropdown for "# of Phone" set to 1, a text field for "Start Number of Jig" set to 1, and a text field for "IP Address" set to 10.244.114.62), and "Operation Condition" (with a button labeled "Operation Condition"). On the right side, there is a vertical stack of buttons: "Model Information", "Hardware Config", "Smart Lock Config", "Channel Config", "Auto Calibration", and "Setting End Band". At the bottom right, there is a button labeled "OK", which is highlighted with a red rectangle.

6. Level 1 Repair

12. Click Model Info

DASEUL - SM-G928F

Model: **SM-G928F** H/W Ver: **PV 0.800** SKU: **SM-G928FZKABTU** DB Serv: **HOME(GUM)** Cell Type: **Block Cell**
Process: **IMEI Check(M) Service** PGM Ver: **DASEUL_v3.1.167.0**

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%)

U/N: -

Phone 01 [Status] Phone01 [Result] Phone01 [Info] Phone01 [IMEI] Phone01 [Version Info] [Fail All]

IMEI Num: - - - - - SN Num: - - - - -
IMEI Num(Slave): - - - - -
IMEI Num(3rd): - - - - -

ME Personal Lock
Lock Setting
Code Field
Network UnLock Key
Subset UnLock Key
SP UnLock Key
Master Key

Apply
Reset
Model Info

Start
Stop
Reset

Auto Recipe Setting Test Item H/W Setting Setting(Etc.) Etc Func Data Alarm Help

[One Step] [Machine Freq : 100 ms] [DBMS Type : Outside-WebSVC] Level: [L-Error] 2015-08-20 14:27:20

IMEI Writing Items

CSC	G928FOXAOAEC
PDA	G928FOXUOAEC
Software2	
LPD	
Contents	
DMB	
SKU_CODE	SM-G928FZKABTU
BUYER	BTU
Material_Code	
Boot	
Factory Software	

☐ FactoryReset+Check
☐ Pre Product
☐ 2nd Func Test (AT&T)
☐ Lock Write (OQC)
☒ 2nd Check after Pwr Reset
☐ Use Fulltest(SW Verification)

MDL Rework
☐ Main Repair
☐ Sub PBA Repair(Grip)
☐ SMD Test NV Write
☐ WIFI Addr. Init
☐ High Speed Boot Skip

STA Option
☐ Don't DB Upload
☐ Packing Rework
☐ Tizen Download
☐ Android Download

Save Load Cancel

6. Level 1 Repair

13. Input IMEI Number and click Apply

The screenshot shows the 'Phone 01' configuration screen in the DASEUL - SM-G928F software. The top status bar displays model information: Model SM-G928F, H/W Ver. PV 0.800, SKU SM-G928FZKABTU, DB Serv. HOME(GUM), Cell Type Block Cell, Process IMEI Check(M) Service, and PGM Ver. DASEUL_v3.1.167.0. The main area is divided into sections for Status, Result, Time, and Fail(%). Below these, there are input fields for IMEI Num, IMEI Num(Stave), IMEI Num(3rd), and SN Num. The 'Apply' button is highlighted with a red box. To the right, there are buttons for Start, Stop, and Reset. The bottom toolbar contains icons for Auto, Recipe, Setting, Test Item, H/W Setting, Setting(Etc.), Etc. Func, and Data. The status bar at the bottom indicates the machine frequency and DBMS type.

14. Click Start, and input IMEI writing ID and Password → ②input Ticket No

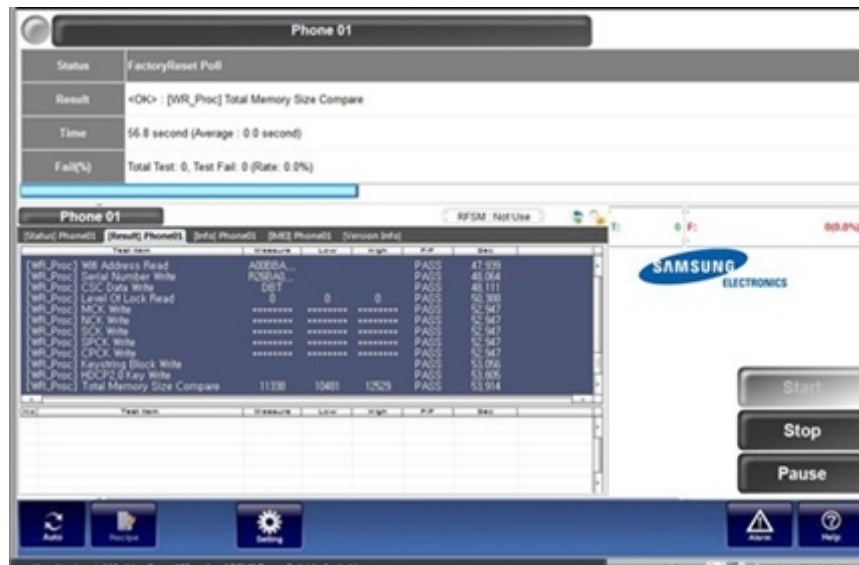
The screenshot shows the 'Phone 01' configuration screen with a 'User Login' dialog box and a 'Ticket No' dialog box. The 'User Login' dialog box prompts the user to enter a Service Login User ID and Password. The 'Ticket No' dialog box prompts the user to enter a Ticket No. The 'Start' button is highlighted with a red box. The background interface shows the same status and input fields as in the previous screenshot, but the 'Apply' button is no longer visible. The bottom toolbar and status bar remain the same.

6. Level 1 Repair

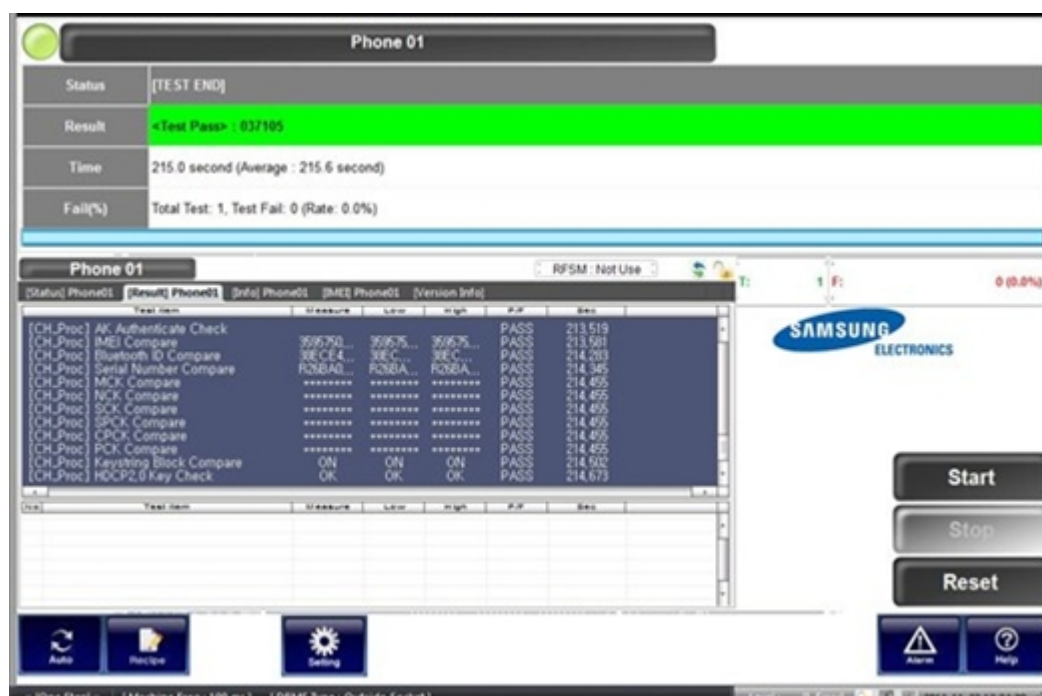
15. Connect the phone to Anyway JIG

- ※ When you connect the phone, the phone should be turned off.
After connecting the phone, the phone will be booted automatically.

16. IMEI Writing Proceeding



17. IMEI Writing Success



6. Level 1 Repair

6-3. RF Calibration

6-3-1. Required items in order to calibrate RF

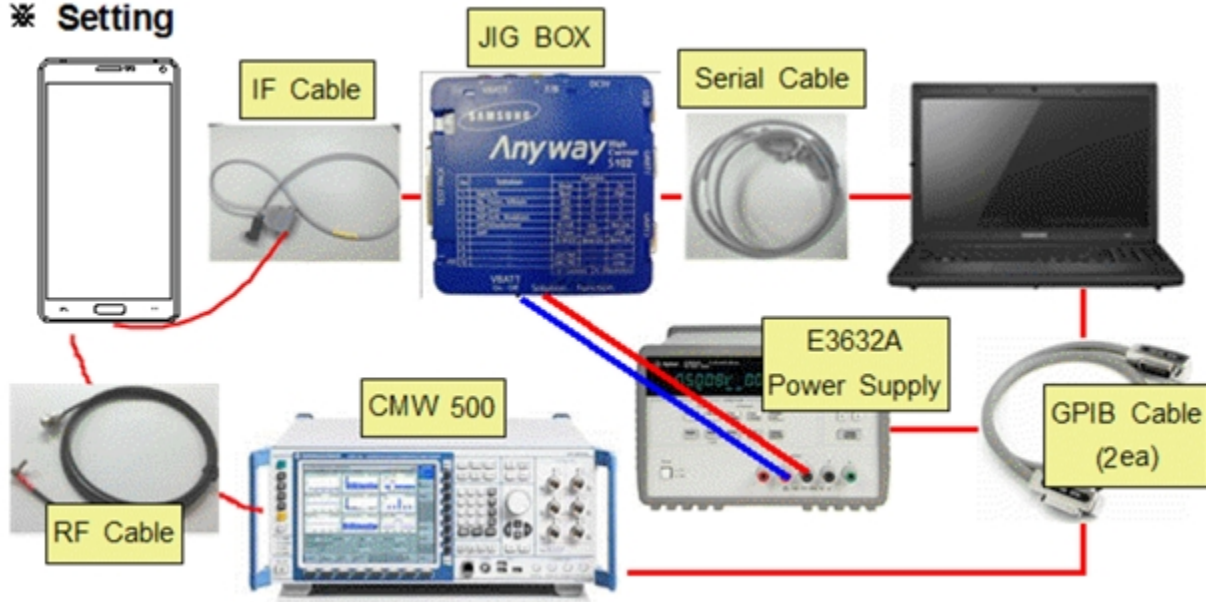
- **Installation program: RF Calibration Program**

- Daseul_Launcher_vx.x.xx.exe
- Daseul_CAL_ALL_Runtime_x.x.xxx.x.CAB
- Model File (SM-G532G_OPEN_CALIBRATION_VER_x.x.xxx.xx.CAB)

※ It is required to use the latest program.

- SM-G532G Mobile Phone
- E3632A Power Supply
- JIG BOX (GH81-11888A)
- Adapter (GH81-11888K)
- 1.35Φ RF Cable (GH81-08797A)
- R&S CMW500
- GPIB Cable (2ea)
- IF Cable (GH81-10952A)
- UART Serial Cable
- RF Cable (GH81-11962G)

※ **Setting**



6. Level 1 Repair

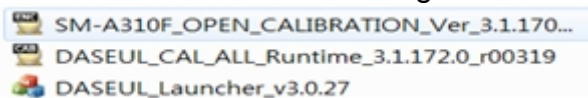
- Table of test cables

IF Cable	GH81-10631A	GH81-10952A	GH81-11171A	
	11 pin	7 pin (New)	7 pin (Old)	
RF Cable (Manual)	GH81-11962D	GH81-11962G	GH81-11962C	GH81-11962F
	1.35T, Short 	1.35T, Long 	1.6T, Short 	1.6T, Long 
4 Port Divider	GH81-11962A	GH81-11962B	GH81-11962E	
	Use / No use 	Divider Cable 	50Ω terminator 	

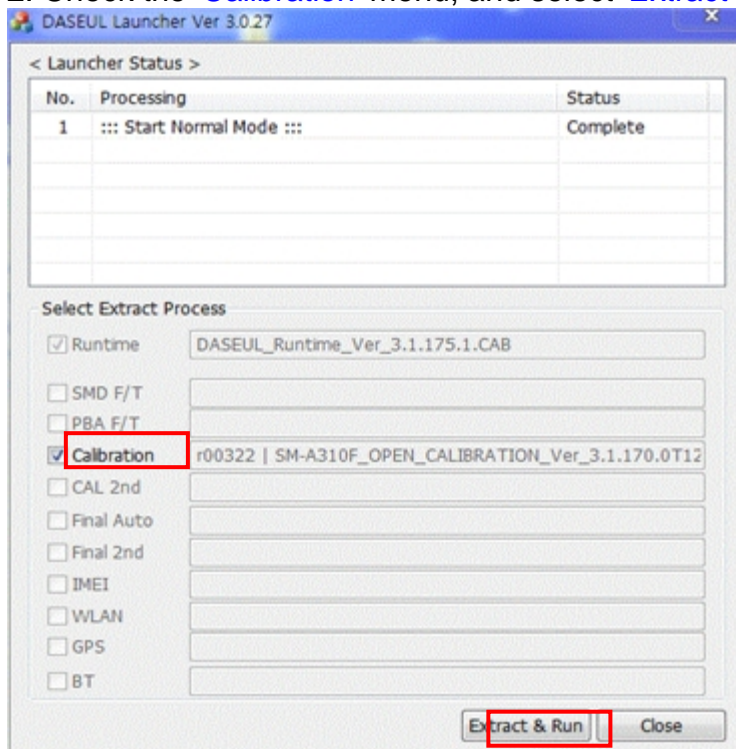
6. Level 1 Repair

6-3-2. RF Calibration Program

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

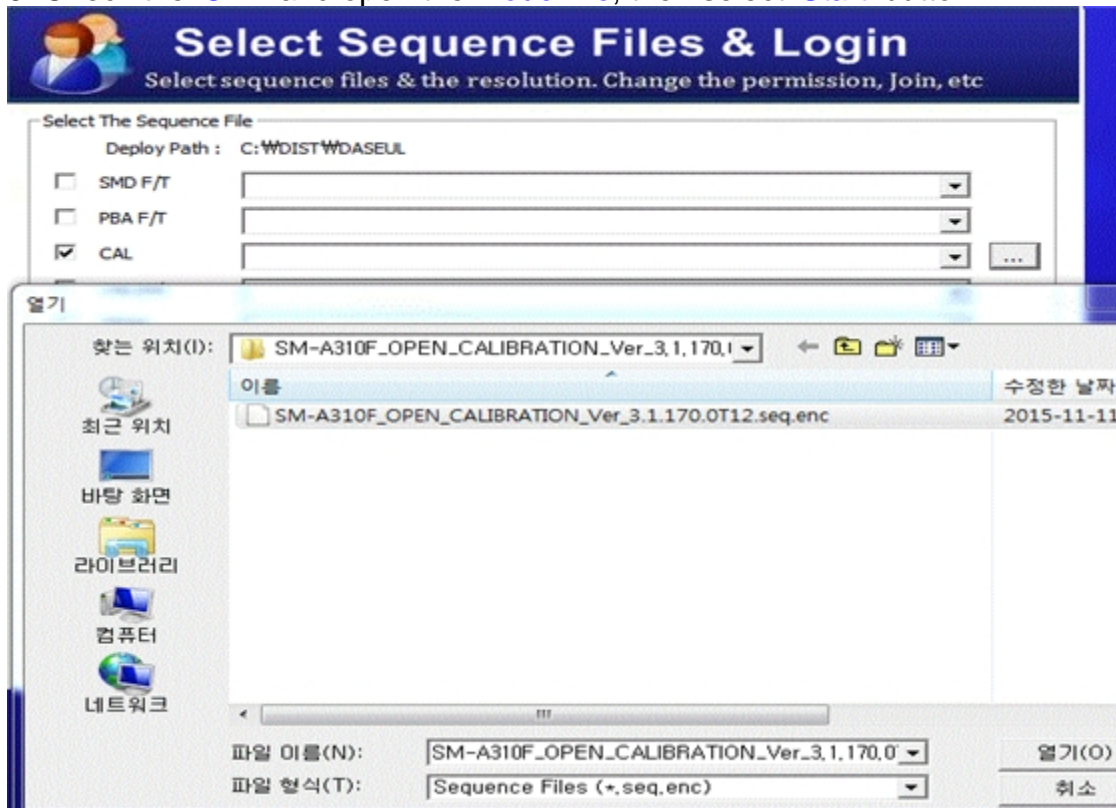


2. Check the 'Calibration' menu, and select 'Extract & Run'.

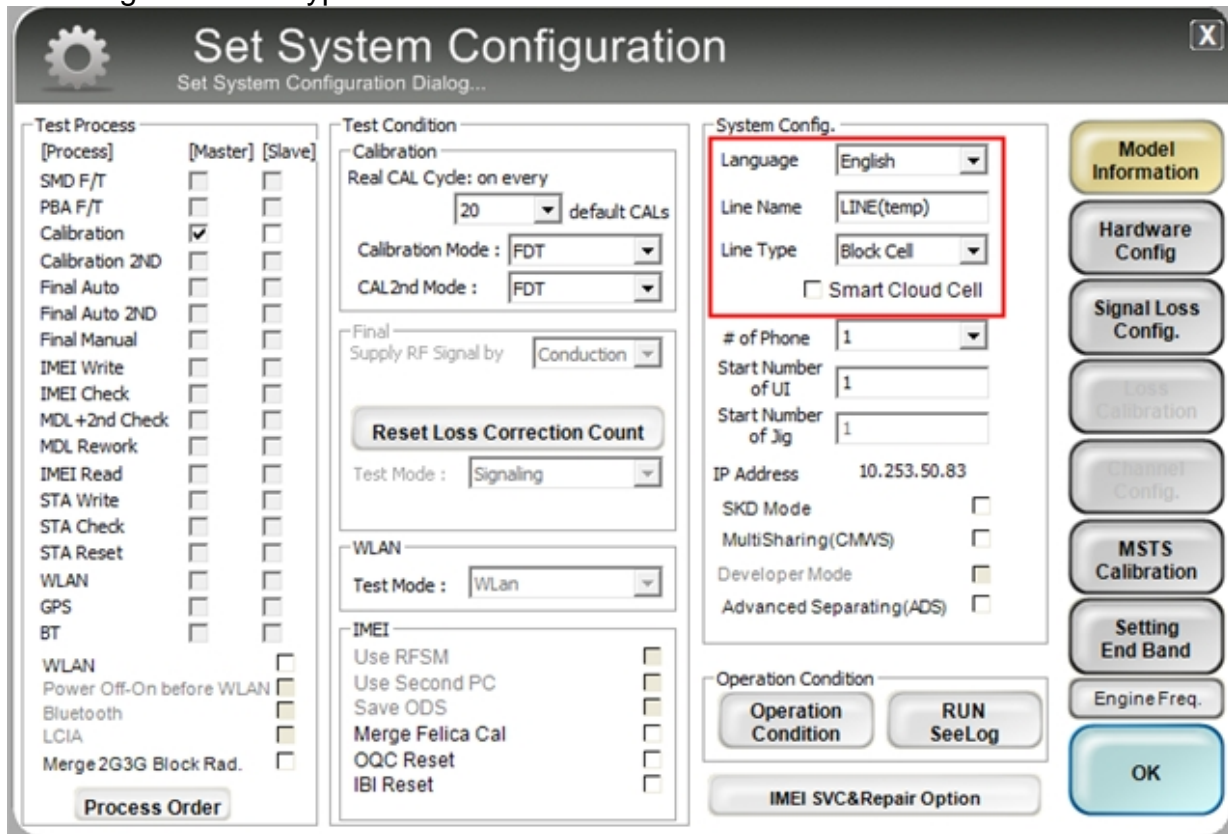


6. Level 1 Repair

3. Check the 'CAL' and open the [model file](#), then select 'Start' button.

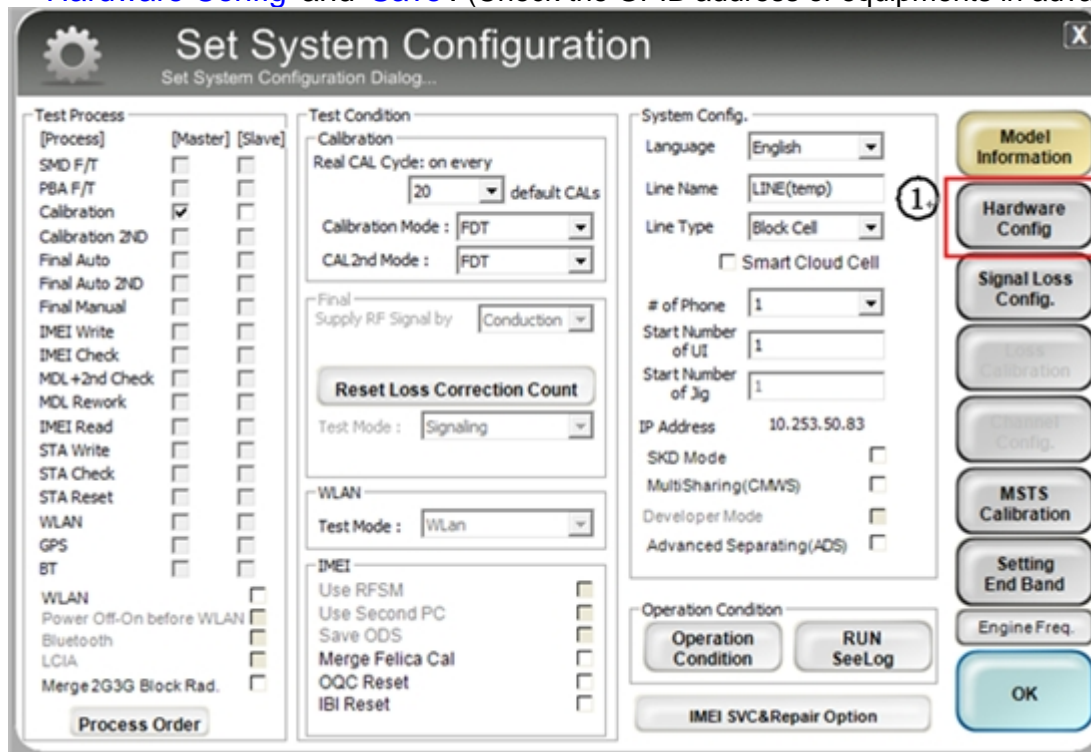


4. Change the Line Type to 'Block Cell' and disable 'Smart Cloud Cell'.

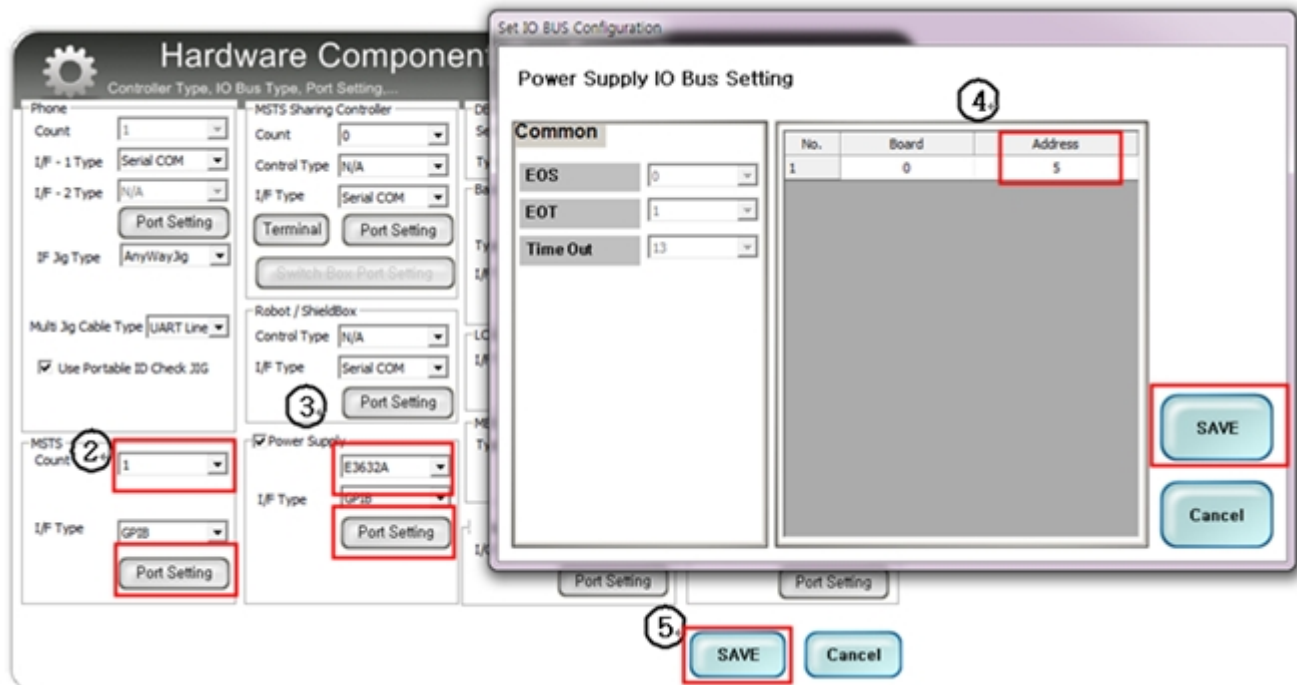


6. Level 1 Repair

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)



The 'Set System Configuration' dialog box is shown. It has several tabs: 'Test Process', 'Test Condition', 'System Config.', 'Model Information', 'Signal Loss Config.', 'Loss Calibration', 'Channel Config.', 'MSTS Calibration', 'Setting End Band', 'Engine Freq.', and 'OK'. The 'System Config.' tab is active. It contains fields for Language (English), Line Name (LINE(temp)), Line Type (Block Cell), Smart Cloud Cell (unchecked), # of Phone (1), Start Number of UI (1), Start Number of Jig (1), IP Address (10.253.50.83), SKD Mode (unchecked), MultiSharing(CMWS) (unchecked), Developer Mode (unchecked), and Advanced Separating(ADS) (unchecked). There are buttons for 'Operation Condition', 'RUN SeeLog', and 'IMEI SVC&Repair Option'. A red box highlights the 'Hardware Config' button in the 'Model Information' tab.

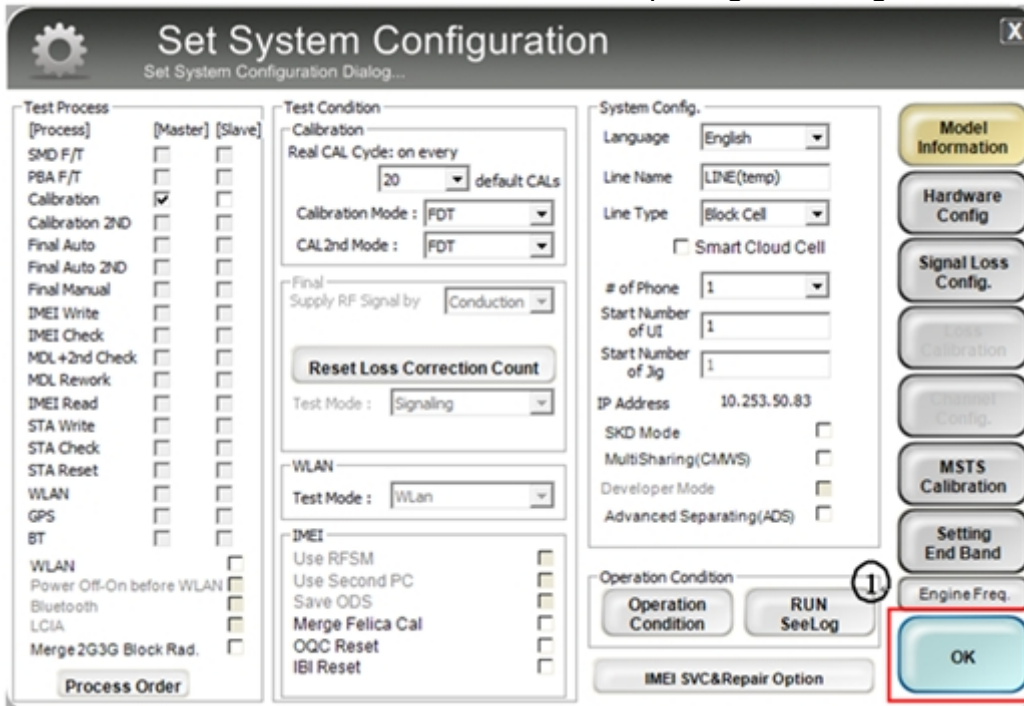


The 'Hardware Component' dialog box is shown. It has tabs for 'Controller Type', 'IO Bus Type', and 'Port Setting...'. The 'IO Bus Type' tab is active. It contains fields for Phone Count (1), I/F - 1 Type (Serial COM), I/F - 2 Type (N/A), I/F Jig Type (AnyWayJig), Multi Jig Cable Type (UART Line), and Use Portable ID Check JIG (checked). There are buttons for 'Port Setting' and 'Switch Base Port Setting'. The 'MSTS' section has a red box around the 'Count' field (1) and a 'Port Setting' button. The 'Power Supply' section has a red box around the 'Count' field (1), a dropdown menu (E3632A), and a 'Port Setting' button. A red box highlights the 'SAVE' button at the bottom.

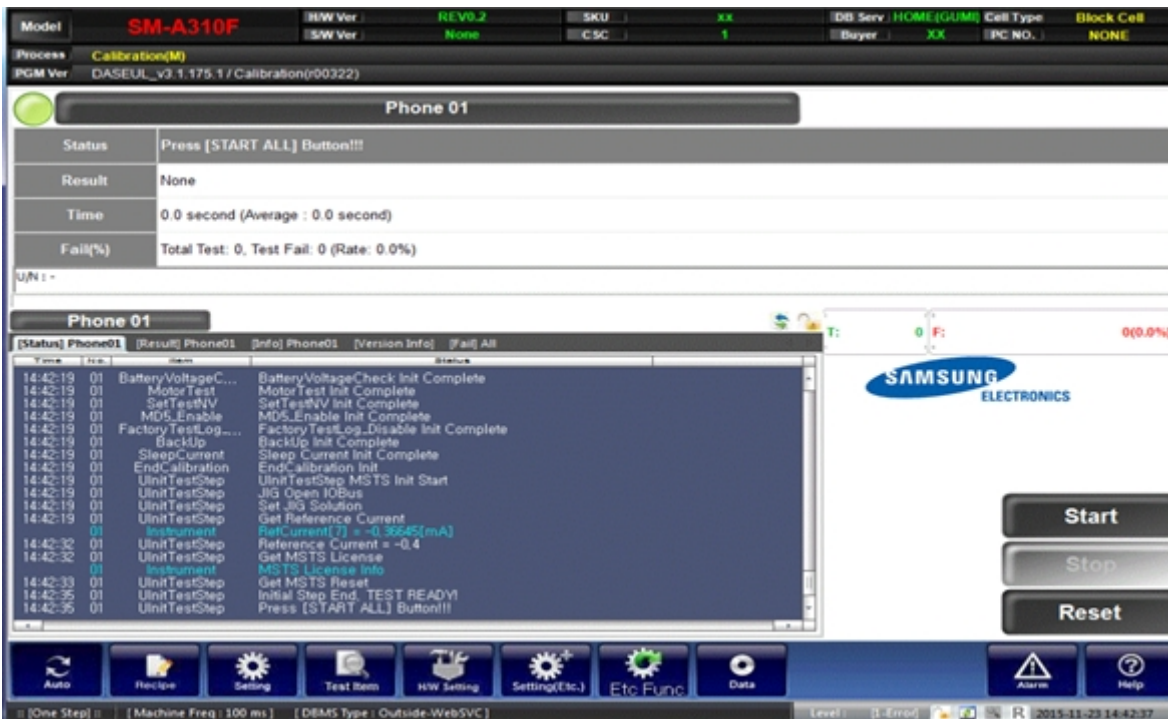
The 'Set IO BUS Configuration' dialog box is shown. It has a 'Common' tab. It contains fields for EOS (0), EOT (1), and Time Out (13). There is a table with columns 'No.', 'Board', and 'Address'. The first row has values 1, 0, and 5. A red box highlights the 'Address' field. There are buttons for 'SAVE' and 'Cancel'.

6. Level 1 Repair

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



The 'Set System Configuration' dialog box is shown with various settings. The 'Test Process' section on the left has 'Calibration' checked under the '[Master]' column. The 'Test Condition' section has 'Real CAL Cycle: on every 20' and 'Calibration Mode: FDT'. The 'System Config.' section has 'Language: English', 'Line Name: LINE(temp)', 'Line Type: Block Cell', and 'Smart Cloud Cell' unchecked. The 'Operation Condition' section has 'RUN SeeLog' selected. The 'OK' button is highlighted with a red box and a circled '1'.



The Samsung Electronics test interface shows the 'Phone 01' status. The 'Status' is 'Press [START ALL] Button!!!'. The 'Result' is 'None'. The 'Time' is '0.0 second (Average : 0.0 second)'. The 'Fail(%)' is 'Total Test: 0, Test Fail: 0 (Rate: 0.0%)'. The 'U/N' is '-'. The 'Phone 01' section shows a list of test steps and their results. The 'Start' button is highlighted.

Time	Item	Status
14:42:19	BatteryVoltageC...	BatteryVoltageCheck Init Complete
14:42:19	MotorTest	MotorTest Init Complete
14:42:19	SetTestNV	SetTestNV Init Complete
14:42:19	MD5.Enable	MD5.Enable Init Complete
14:42:19	FactoryTestLog...	FactoryTestLog_Disable Init Complete
14:42:19	BackUp	BackUp Init Complete
14:42:19	SleepCurrent	Sleep Current Init Complete
14:42:19	EndCalibration	EndCalibration Init
14:42:19	UnitTestStep	UnitTestStep_MSTS Init Start
14:42:19	UnitTestStep	JIG Open IOBus
14:42:19	UnitTestStep	Set JIG Solution
14:42:19	UnitTestStep	Get Reference Current
14:42:32	UnitTestStep	RefCurrent [2] = -0.3645(mA)
14:42:32	UnitTestStep	Reference Current = -0.4
14:42:32	UnitTestStep	Get MSTS License
14:42:33	UnitTestStep	MSTS License Info
14:42:33	UnitTestStep	Get MSTS Reset
14:42:35	UnitTestStep	Initial Step End, TEST READY
14:42:35	UnitTestStep	Press [START ALL] Button!!!