

## 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	270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 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

## 2-2. 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

## 2-3. LTE General Specification

	LTE Band1	LTE Band3	LTE Band5	LTE Band 40	LTE Band8	LTE Band 20
Freq. Band[MHz] Uplink/ Downlink	1920~1980 2110~2170	1710~1785 1805~1880	824~849 869~894	2300~2400	2500~2570 1805~1880	832~862 791~821
ARFCN range	UL: 18000~18599 DL: 0~599	UL: 19200~19950 DL: 1805~1880	UL: 20400~20649 DL: 2400~2649	38650~39649	UL: 21450~21799 DL: 3450~3799	UL: 24150~24449 DL: 6150~6449
Tx/Rx spacing	190MHz	95MHz	45MHz	-	45MHz	41MHz
Channel Bandwidth	60 MHz	75 MHz	25 MHz	100 MHz	35 MHz	30 MHz
Modulation	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
Sensitivit (QPSK) (BW 10MHz)	-94 dBm	-92 dBm	-92 dBm	-95dBm	-95dBm	-95dBm
Cell Radius	>5Km	>5Km	>5Km	>5Km	>5Km	>5Km

### 3. Operation Instruction and Installation

#### Main Function

Item	Description
OS	Android V5.1 (Lollipop)
RF	LTE Cat.6 (300/50Mbps)
Battery	2,600mAh
Base Band	1.2GHz Quad
Other RF	A-GPS, Glonass, Beidou, BT4.0, USB 2.0, WIFI 802.11 b/g/n SISO
Camera	13MP Main CAM 5MP(Front)
LCD	5.0" OCTA HD, 720 x 1280
RAM	8GB RAM + 12Gb eMMC
Sensor	Accelerometer, Proximity
Accessory	Charger: 5V/1A Data cable: 2.7pi, 1.2m Ear phone: 3.5pi, 4pin

## 9. Reference Abbreviate

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### 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

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## 1-1. Repair Precaution

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

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

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

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

We recommend 22-gauge twisted copper wire.

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

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

## 1-2. ESD(Electrostatically Sensitive Devices) Precaution

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

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

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

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

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

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

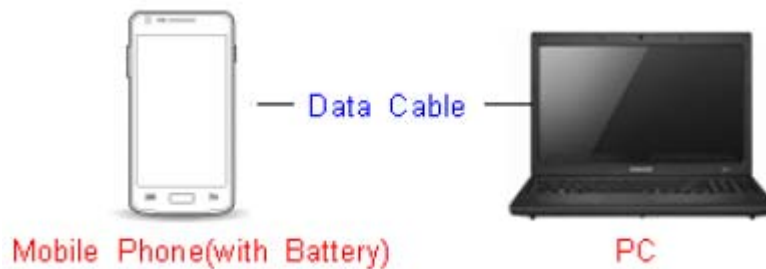
## 6. Level 1 Repair

### 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**)
- Mobile Phone
- Data Cable
- Mobile device specific S/W: Binary files

#### ※ Settings

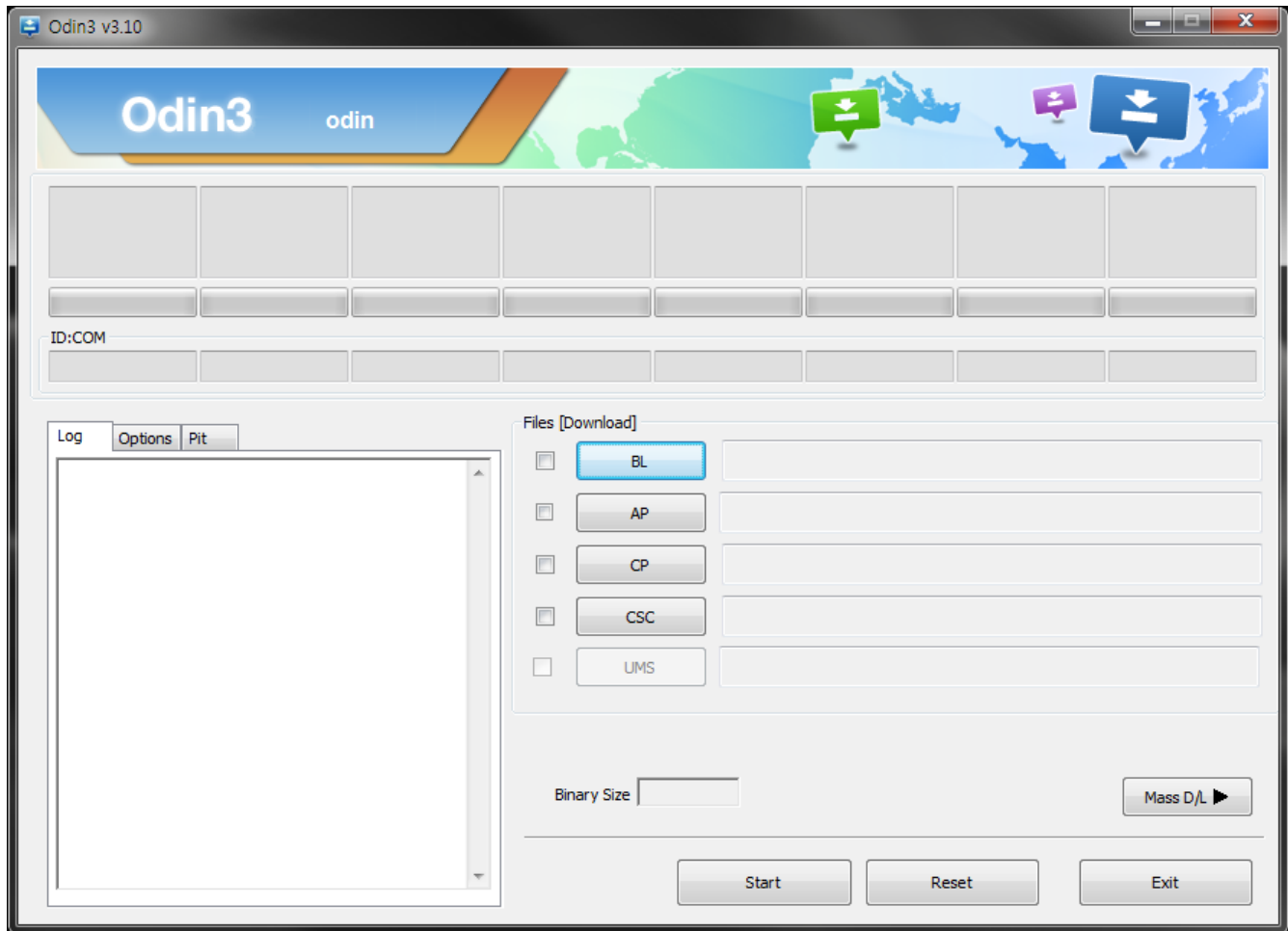


**Data Cable : GH39-01710C**



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

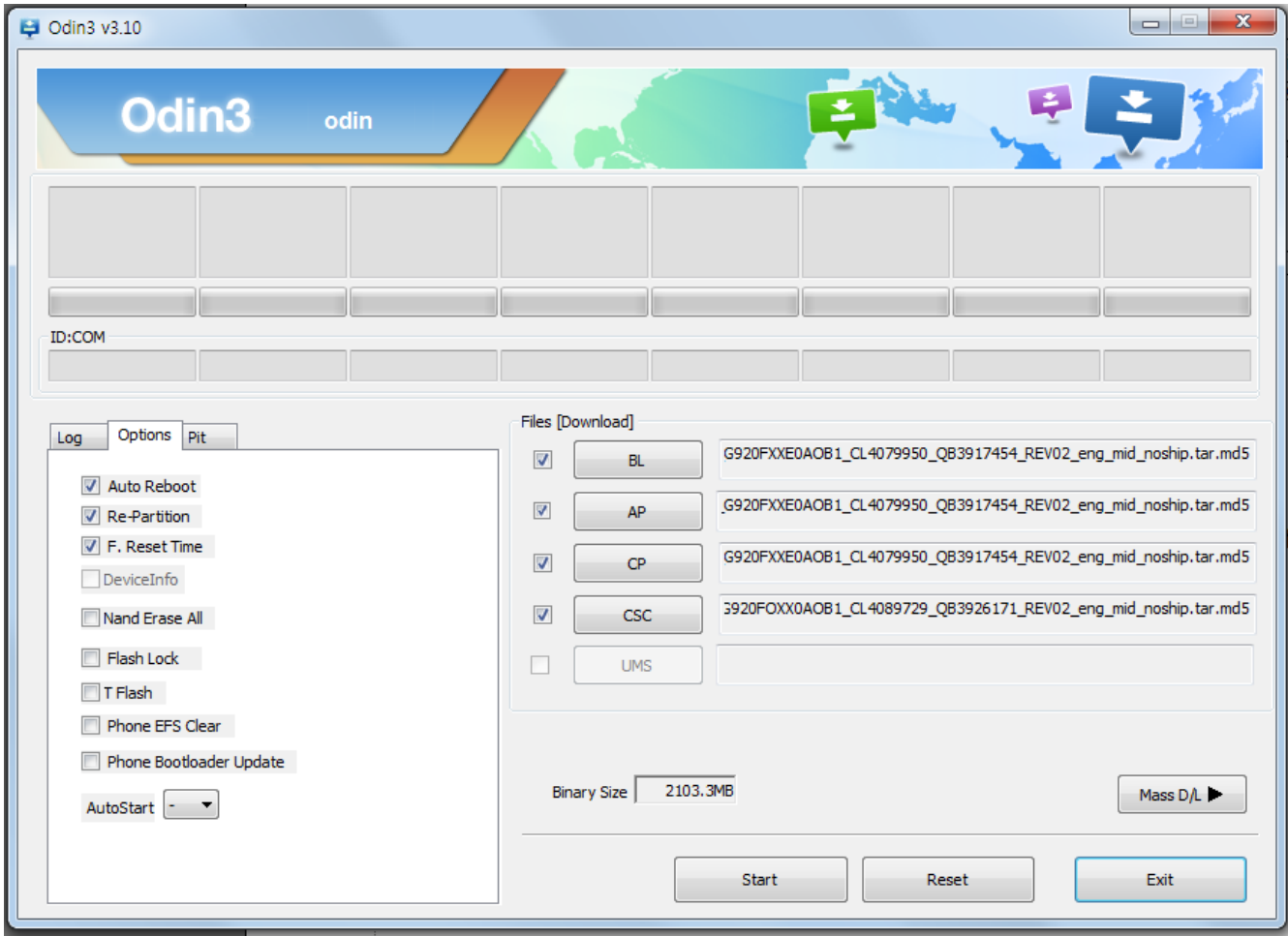
- Open up the S/W Installation Program by executing the "Odin3 v3.10.6.exe"



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.



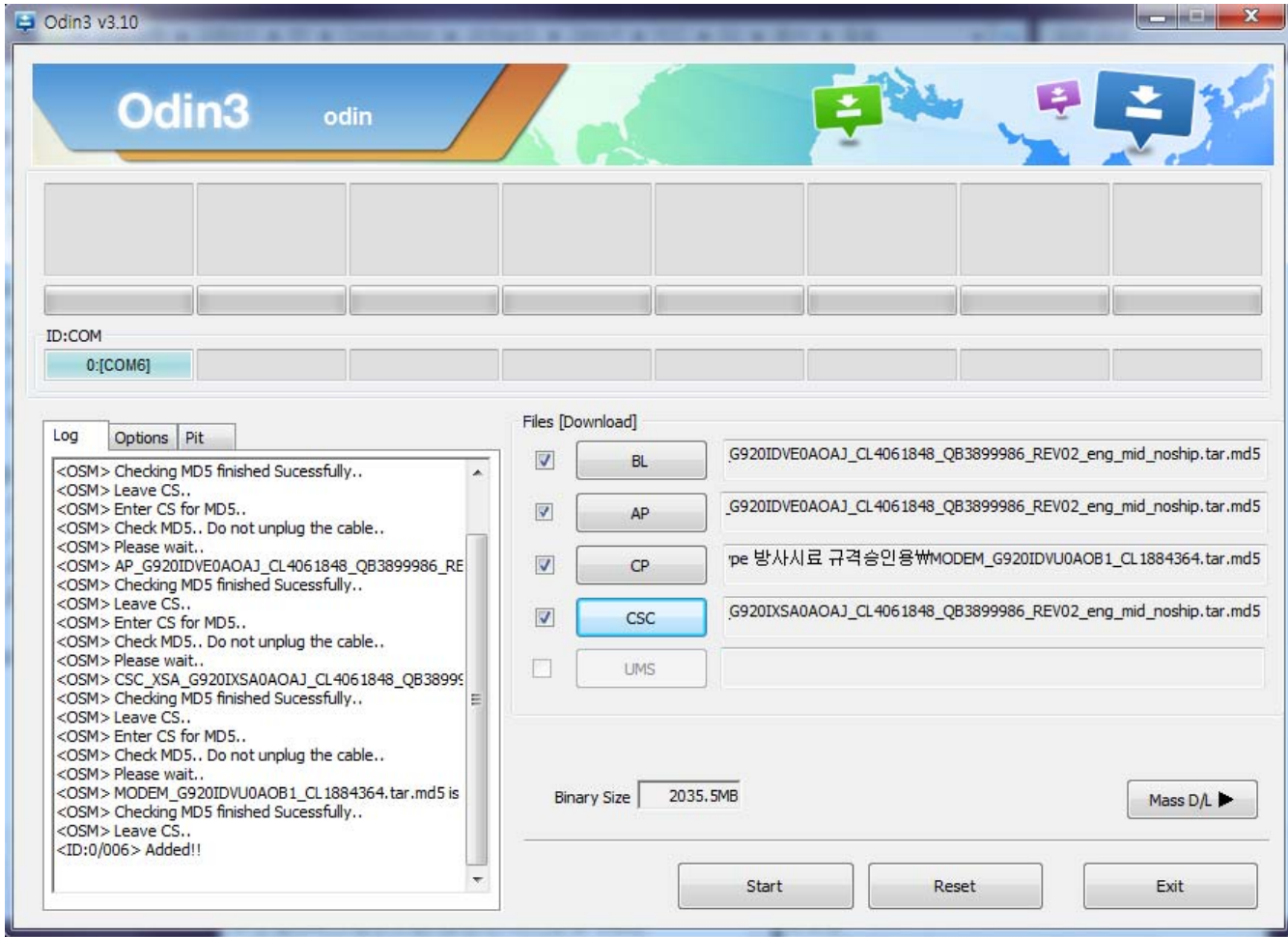
## 2. Enter into Download Mode

- 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.

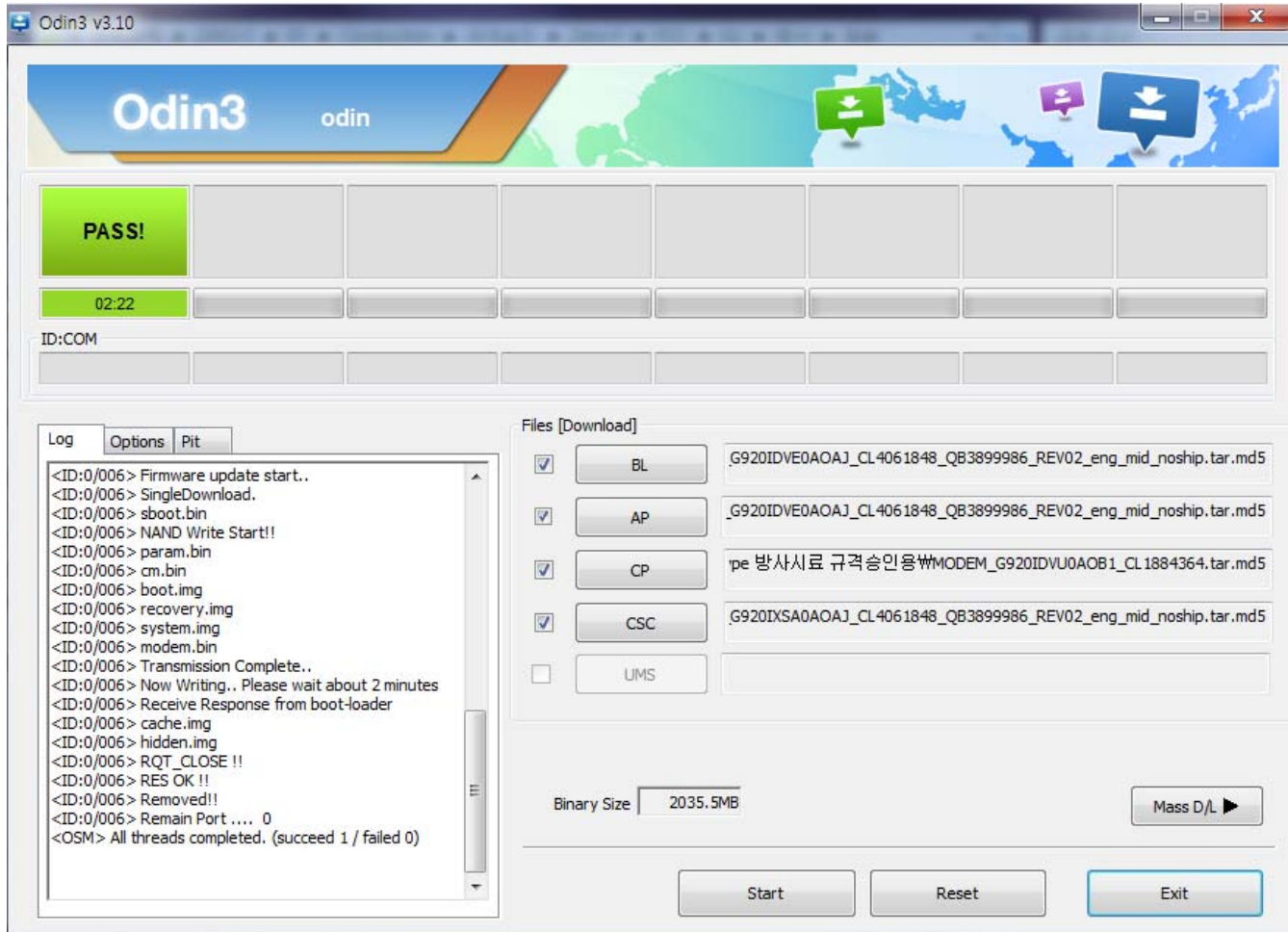


3. Connect the device to PC via Data Cable.

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.



- 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.



- Disconnect the device from the Data cable.
- Once the device boots up, you can check the version of the binary file or name by pressing the following code in sequence;  
**\*#1234#**

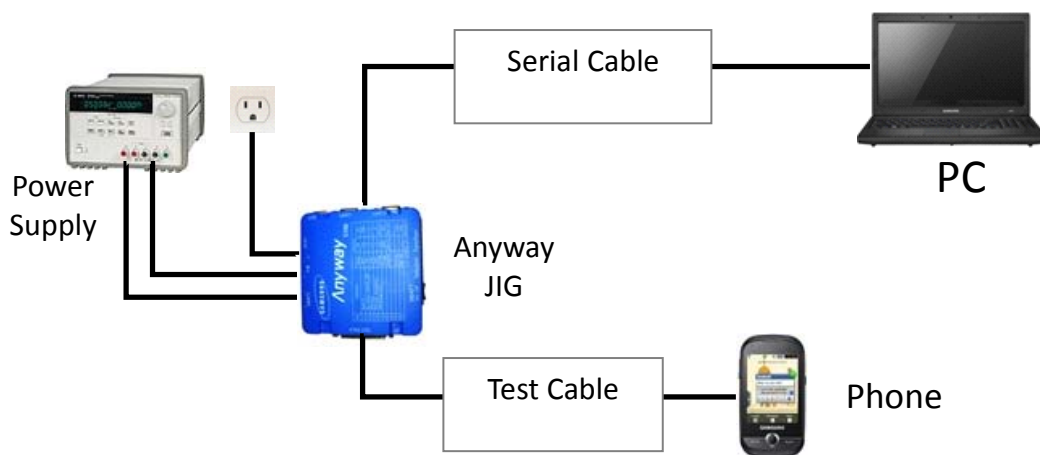
You can perform Factory Reset by Settings → Accounts → Backup and reset

## 6-2 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

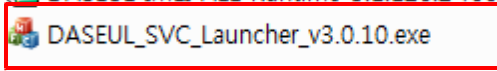


#### - S/W

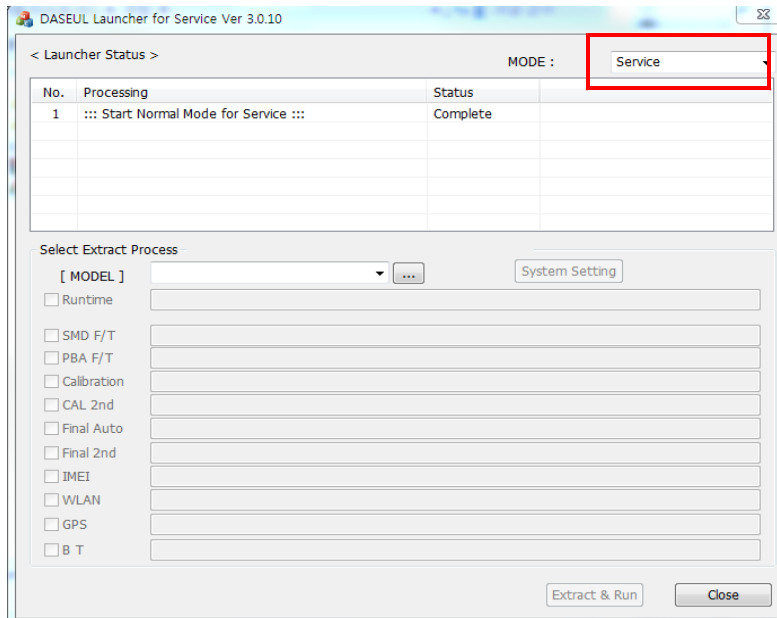
① Library Install	To use Daseul, library files should be installed. Refer to SVC Bulletin “(11-82) Daseul (New IMEI writing Program) Library Install guide_rev1.0”
② Launcher	DASEUL_SVC_Launcher_v3_0_25 or higher -Uploaded on HHPsvc Notice
③ Runtime File	1. DASEUL_Runtime_Ver_3.1.139.0.CAB or higher -Uploaded 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


### 6-2-2 IMEI writing Process

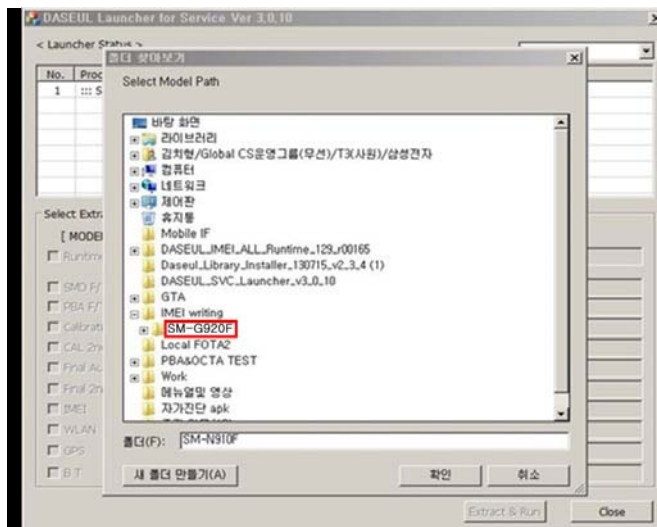
1. Run DASEUL\_SVC\_Launcher\_v3.0.10.exe



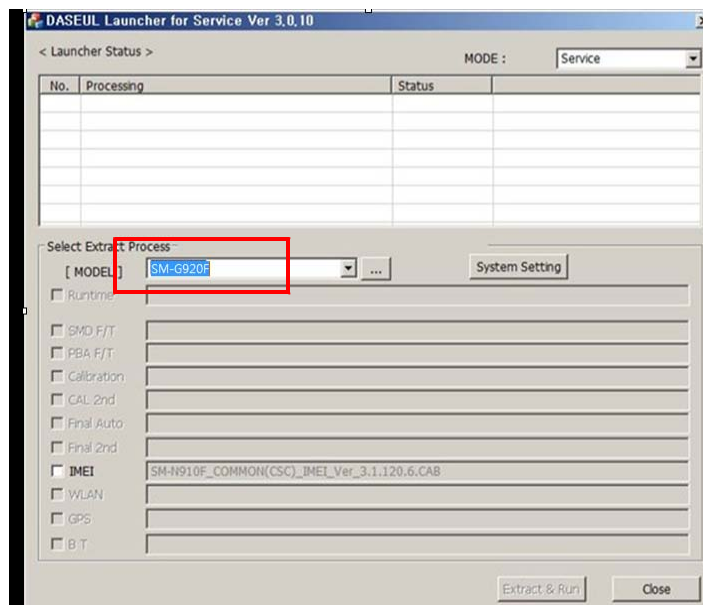
2. Select Service Mode



3. Click  and Select folder where the Launcher exists

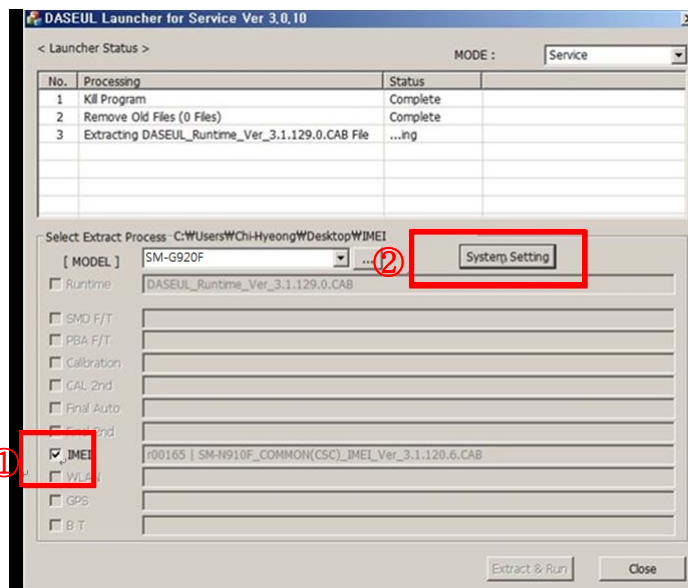


#### 4. Select Model



#### 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. Check 'IMEI Write / IMEI Check', and click 'IMEI SVC & Repair Option'

**Set System Configuration**  
Set System Configuration Dialog...

**Test Process**

[Process]	[Master]	[Slave]
SMD F/T	<input type="checkbox"/>	<input type="checkbox"/>
PBA F/T	<input type="checkbox"/>	<input type="checkbox"/>
Calibration	<input type="checkbox"/>	<input type="checkbox"/>
Calibration 2ND	<input type="checkbox"/>	<input type="checkbox"/>
Final Auto	<input type="checkbox"/>	<input type="checkbox"/>
Final Auto 2ND	<input type="checkbox"/>	<input type="checkbox"/>
Final Manual	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Write	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IMEI Check	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MDL +2nd Check	<input type="checkbox"/>	<input type="checkbox"/>
MDL Rework	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Read	<input type="checkbox"/>	<input type="checkbox"/>
STA Write	<input type="checkbox"/>	<input type="checkbox"/>
STA Check	<input type="checkbox"/>	<input type="checkbox"/>
STA Reset	<input type="checkbox"/>	<input type="checkbox"/>
WLAN	<input type="checkbox"/>	<input type="checkbox"/>
GPS	<input type="checkbox"/>	<input type="checkbox"/>
BT	<input type="checkbox"/>	<input type="checkbox"/>
WLAN	<input type="checkbox"/>	<input type="checkbox"/>
Power Off-On before WLAN	<input type="checkbox"/>	<input type="checkbox"/>
Bluetooth	<input type="checkbox"/>	<input type="checkbox"/>
LCIA	<input type="checkbox"/>	<input type="checkbox"/>
Merge 2G3G Block Rad.	<input type="checkbox"/>	<input type="checkbox"/>

**Test Condition**

Calibration  
Real CAL Cycle: on every  default CALs  
Calibration Mode :   
CAL2nd Mode :

Final  
Supply RF Signal by :

**Reset Loss Correction Count**

Test Mode :

WLAN  
Test Mode :

IMEI  
Use RFSM   
Use Second PC   
Save ODS   
Merge Felica Cal   
OQC Reset   
IBI Reset

**System Config.**

Language :   
Line Name :   
Line Type :   
 Smart Cloud Cell  
# of Phone :   
Start Number of UI :   
Start Number of Jig :   
IP Address : 10.244.246.156  
SKD Mode   
MultiSharing(CMWS)   
Developer Mode   
Advanced Separating(ADS)

**Operation Condition**

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

**IMEI SVC && Repair Option**

FTR   Rework   Korean SVC

SVC   SELA MIAMI   Local FOTA Check

DEVELOPE  Repair Board  SVC Factory Reset

Romania SVC  Argentina SKD

Initial PGM(SVC)  Turkey

ATT Rework  Slovakia SVC

IMEI Clear(Factory)  GED 2nd Inspection

Outgoing Inspection Check  SBSC(PBA) SVC

8. Click 'Hardware Config'

**Set System Configuration**  
Set System Configuration Dialog...

**Test Process**

[Process]	[Master]	[Slave]
SMD F/T	<input type="checkbox"/>	<input type="checkbox"/>
PBA F/T	<input type="checkbox"/>	<input type="checkbox"/>
Calibration	<input type="checkbox"/>	<input type="checkbox"/>
Calibration 2ND	<input type="checkbox"/>	<input type="checkbox"/>
Final Auto	<input type="checkbox"/>	<input type="checkbox"/>
Final Auto 2ND	<input type="checkbox"/>	<input type="checkbox"/>
Final Manual	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Write	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IMEI Check	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SVC Board	<input type="checkbox"/>	<input type="checkbox"/>
MDL Rework	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Read	<input type="checkbox"/>	<input type="checkbox"/>
STA Write	<input type="checkbox"/>	<input type="checkbox"/>
STA Check	<input type="checkbox"/>	<input type="checkbox"/>
STA Reset	<input type="checkbox"/>	<input type="checkbox"/>
WLAN	<input type="checkbox"/>	<input type="checkbox"/>
GPS	<input type="checkbox"/>	<input type="checkbox"/>
BT	<input type="checkbox"/>	<input type="checkbox"/>
WLAN	<input type="checkbox"/>	<input type="checkbox"/>
Power Off-On before WLAN	<input type="checkbox"/>	<input type="checkbox"/>
Bluetooth	<input type="checkbox"/>	<input type="checkbox"/>
LCIA	<input type="checkbox"/>	<input type="checkbox"/>
Merge 2G3G Block Rad.	<input type="checkbox"/>	<input type="checkbox"/>

**Test Condition**

Calibration  
Real CAL Cycle: on every  default CALs

Calibration Mode :

CAL2nd Mode :

Final  
Supply RF Signal by :

**Reset Loss Correction Count**

Test Mode :

WLAN  
Test Mode :

IMEI  
Use RFSM   
Use Second PC   
Save ODS   
Merge Felica Cal   
OQC Reset   
IBI Reset

**System Config.**

Language :

Line Name :

Line Type :

Smart Cloud Cell

# of Phone :

Start Number of UI :

Start Number of Jig :

IP Address : 10.244.246.165

SKD Mode

MultiSharing(CMWS)

Developer Mode

Advanced Separating(ADS)

**Operation Condition**

9. Click 'Port Setting'

**Hardware Component Configuration**  
Controller Type, IO Bus Type, Port Setting....

**Phone**

Count :

I/F - 1 Type :

I/F - 2 Type :

IF Jig Type :

Use ID Check JIG

**MSTS**

Count :

I/F Type :

**MSTS Sharing Controller**

Count :

Control Type :

I/F Type :

Robot / ShieldBox

Control Type :

I/F Type :

**Power Supply**

I/F Type :

**DBMS**

Server :

Type :

**Barcode Reader**

Type :

I/F Type :

**MES PN Sender**

Type :

**PBA F/T**

Function Test Jig

NI-DAQ

Power Detector

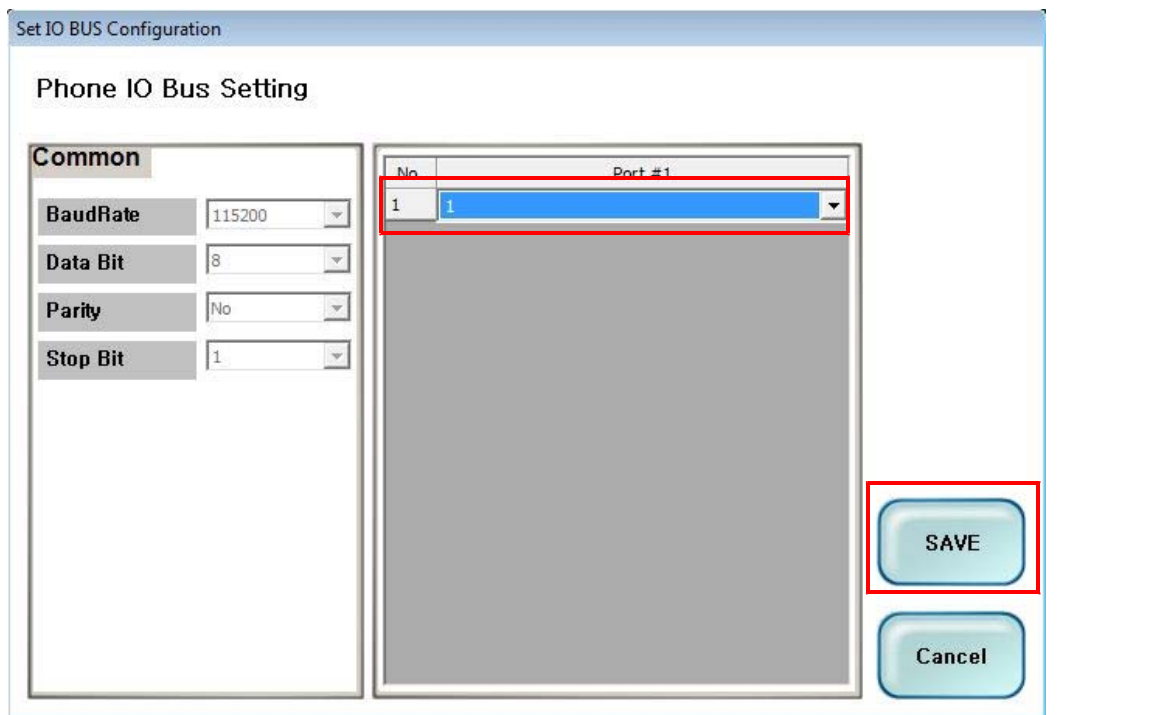
HDMI JIG

**SMD F/T**

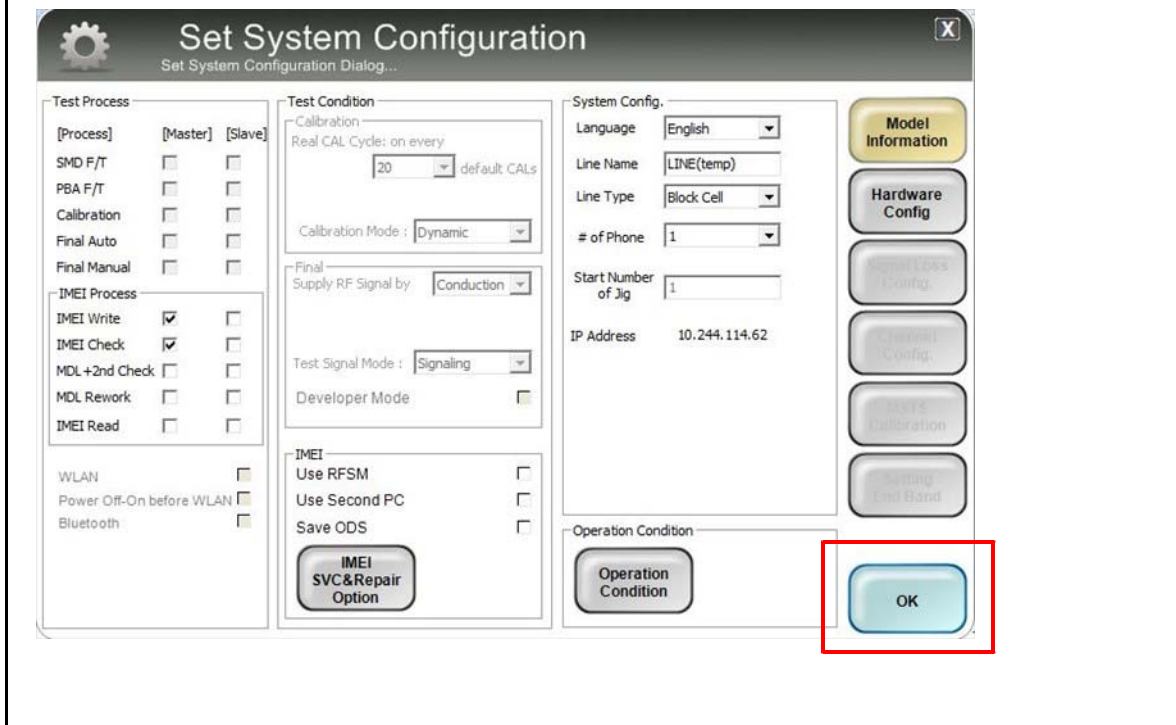
Type :

B'd Address :

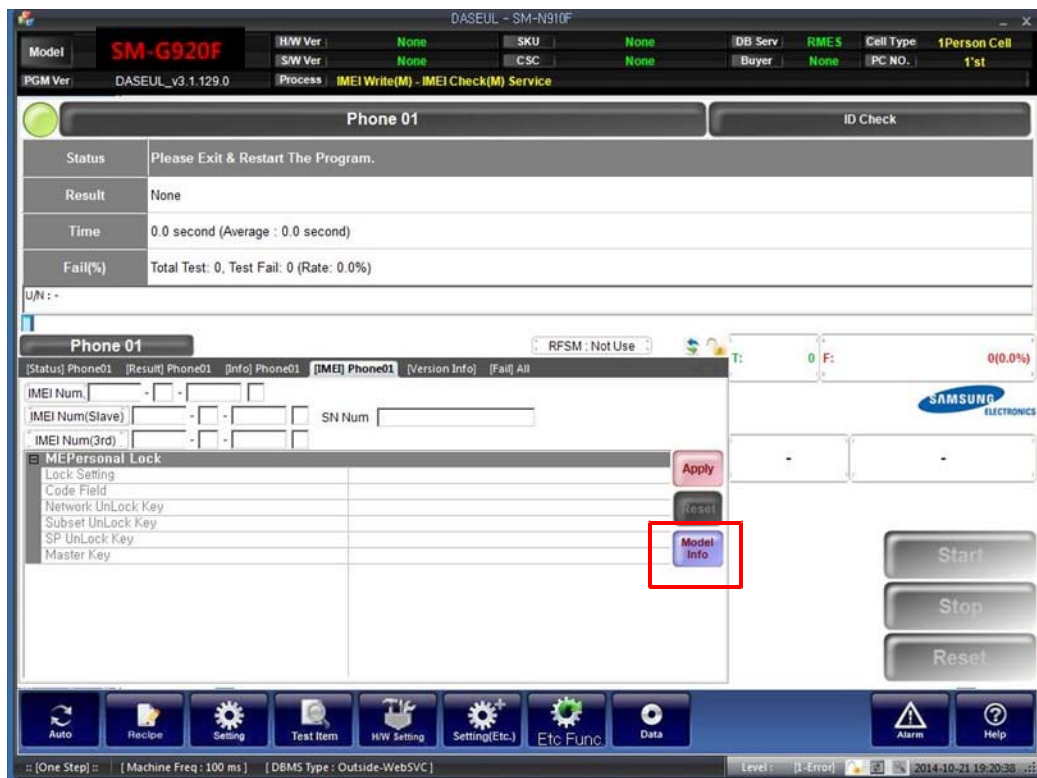
10. Select Port Number and SAVE



11. Click OK to proceed



12. Click Model Info and OK when pop-up shows



13. Click OK



14. Input SKU\_CODE and BUYER, then click Save button.

※ Refer to HHPsvc→IMEI Review to check SKU Code and buyer

CSC	N098DCM1ANB5
PDA	N098OMU1ANB5
Software2	1
LPD	
Contents	
DMB	
SKU_CODE	SM-G920XXXXEUR
BUYER	DBT
Material_Code	
Boot	
Factory Software	N098OMU1ANB5

2nd Func Test (AT&T)  
 FactoryReset+Check  
 Pre Product  
 Main Repair

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

15. Input IMEI Number and click Apply

Model: SM-G920F    HW Ver: None    SKU: None    DB Serv: RMES    Cell Type: 1Person Cell  
 PGM Ver: DASEUL\_v3.1.129.0    Process: IMEI Write(M) - IMEI Check(M) Service

Status: Please Exit & Restart The Program.  
 Result: None  
 Time: 0.0 second (Average : 0.0 second)  
 Fail(%): Total Test: 0, Test Fail: 0 (Rate: 0.0%)

UN: -

Phone 01    ID Check

IMEI Num: 111111

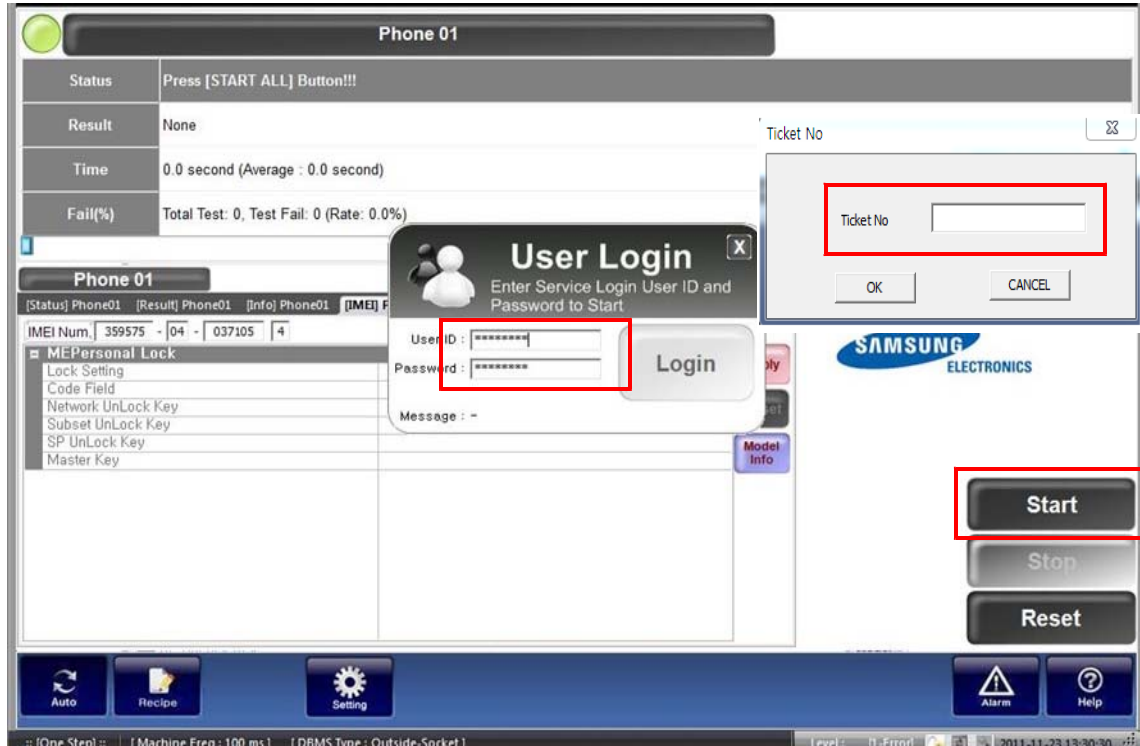
Start    Stop    Reset

Auto    Recipe    Setting    Test Item    HW Setting    Setting(Etc.)    Etc Func    Data

[One Step]    [Machine Freq: 100 ms]    [DBMS Type: Outside-WebSVC]    Level: [Error]    2014.10.21 19:21:38



16. ① Click Start, and input IMEI writing ID and Password → ② input Ticket No

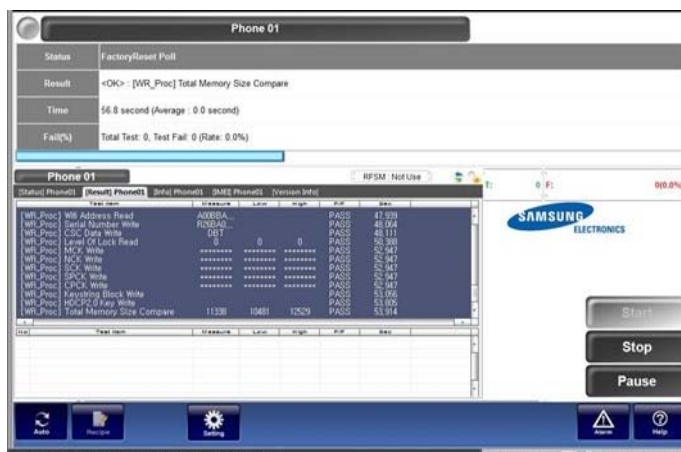


17. Connect the phone to Anyway JIG

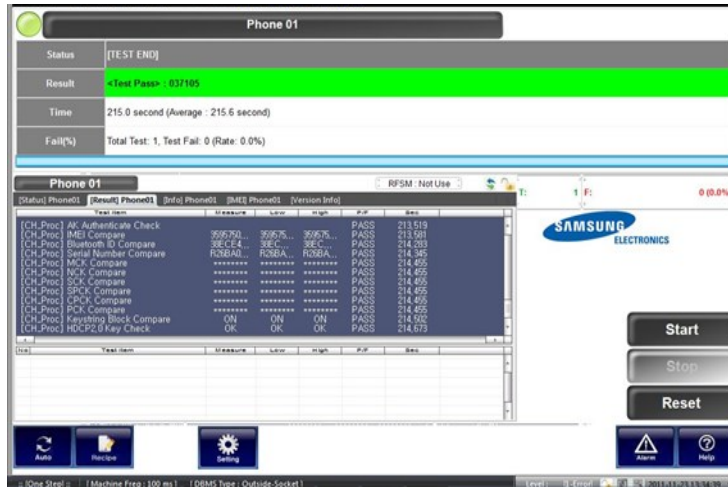
※ When you connect the phone, the phone should be turned off.

After connecting the phone, the phone will be booted automatically.

18. IMEI Writing Proceeding



## 19. IMEI Writing Success



The screenshot displays the Samsung Electronics diagnostic interface for 'Phone 01'. The top summary section shows:

- Status: [TEST END]
- Result: <Test Pass> - 037105
- Time: 215.0 second (Average : 215.6 second)
- Fault(%): Total Test: 1, Test Fail: 0 (Rate: 0.0%)

The main diagnostic table shows the following results:

Test Item	Measure	Actual	Sign	P/F	Seq
CH_Proc IM_Authenticate Check				PASS	213.519
CH_Proc IMEI Compare	369670...	369675...	369675...	PASS	213.581
CH_Proc Bluetooth ID Compare	3EECE4...	3EEC...	3EEC...	PASS	214.033
CH_Proc Serial Number Compare	R028A0...	R028A...	R028A...	PASS	214.285
CH_Proc MCK Compare	*****	*****	*****	PASS	214.455
CH_Proc NCK Compare	*****	*****	*****	PASS	214.455
CH_Proc SCC Compare	*****	*****	*****	PASS	214.455
CH_Proc SPCK Compare	*****	*****	*****	PASS	214.455
CH_Proc PCK Compare	*****	*****	*****	PASS	214.455
CH_Proc Keyboard Back Compare	ON	ON	ON	PASS	214.552
CH_Proc H0CP2.0 Key Check	OK	OK	OK	PASS	214.673

Control buttons on the right include Start, Stop, and Reset. The Samsung Electronics logo is visible in the background.

## 6-4. RF Calibration

## 6-1-1. 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-XXXXX\_OPEN\_CALIBRATION\_VER\_x.x.xxx.xx.CAB)

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

- Mobile Phone ÿ R&S CMW500
- E3632A Power Supply ÿ GPIB Cable (2ea)
- JIG BOX (GH81-11888A) ÿ Adapter (GH81-11888K)

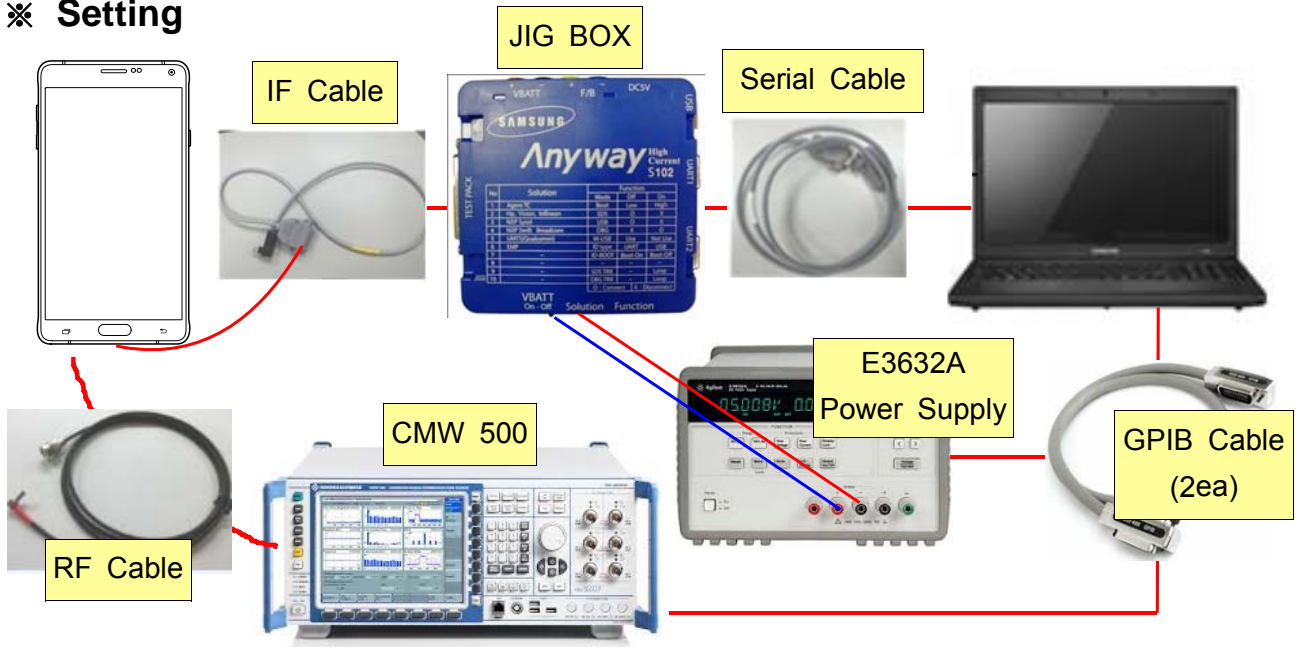
ÿ UART Serial Cable

- Table of test cables

IF Cable	GH81-10952A
	7 pin, Short
RF Cable	GH81-11962G
	1.35T, Long

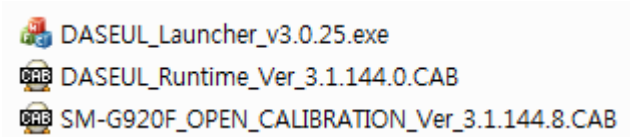


※ Setting

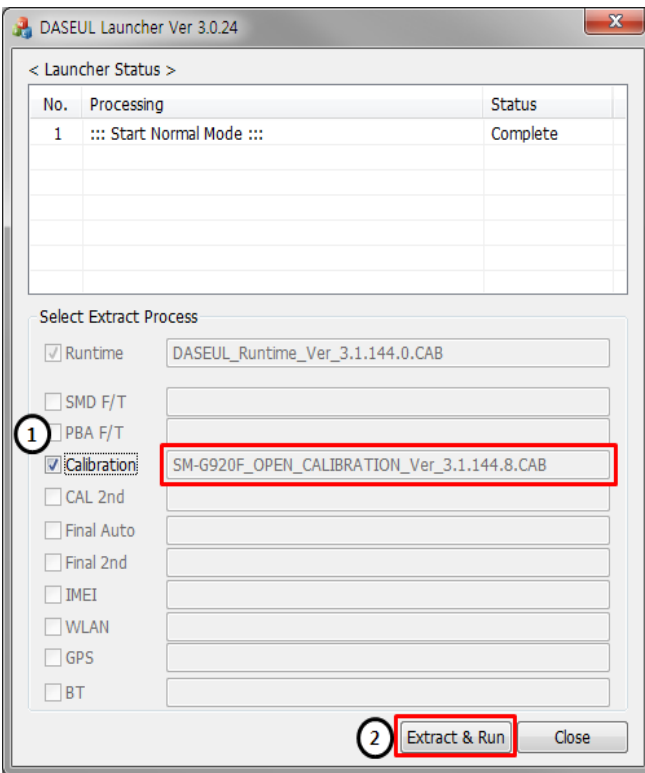


### 6-1-2. RF Calibration Program

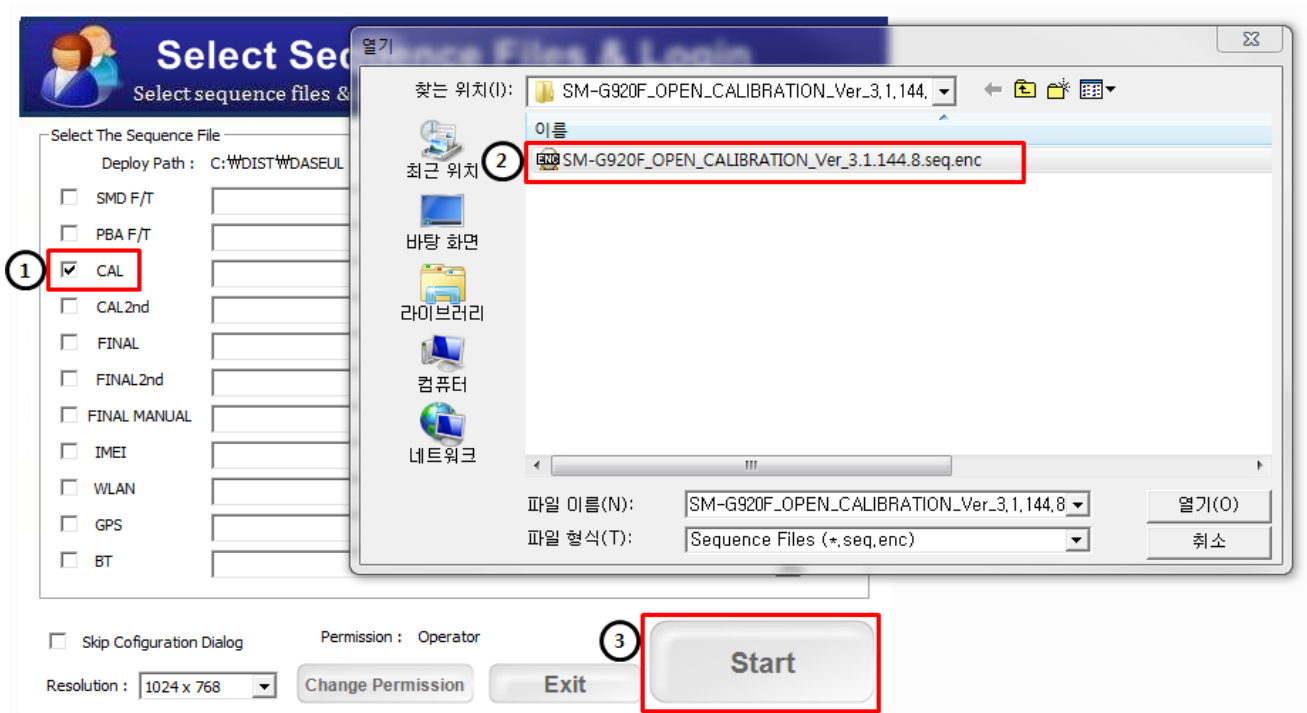
1. Run the RF Calibration Program Launcher, '[DASEUL\\_Launcher\\_vx.x.xx.exe](#)'.



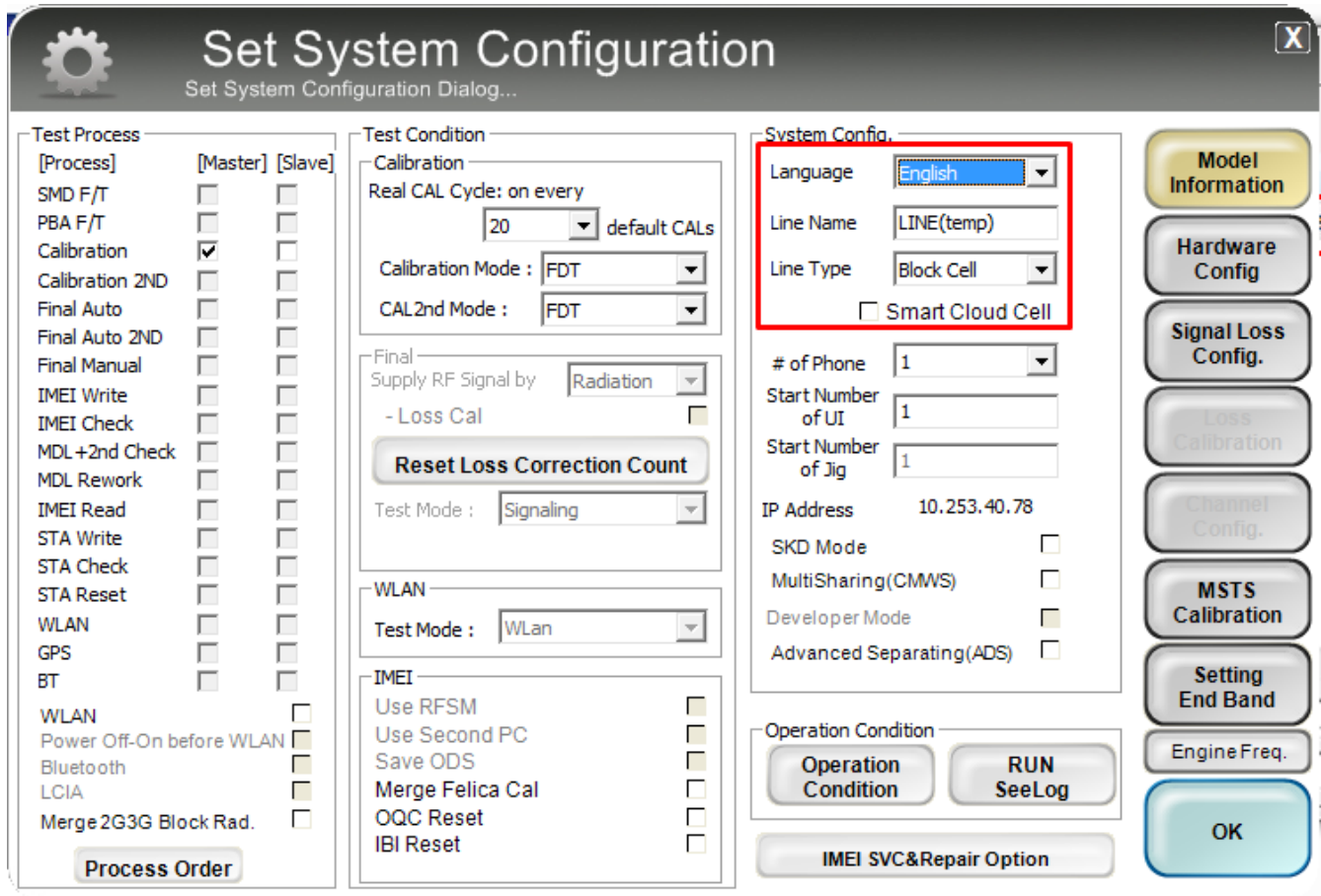
2. Check the 'Calibration' menu, and select 'Extract & Run'.



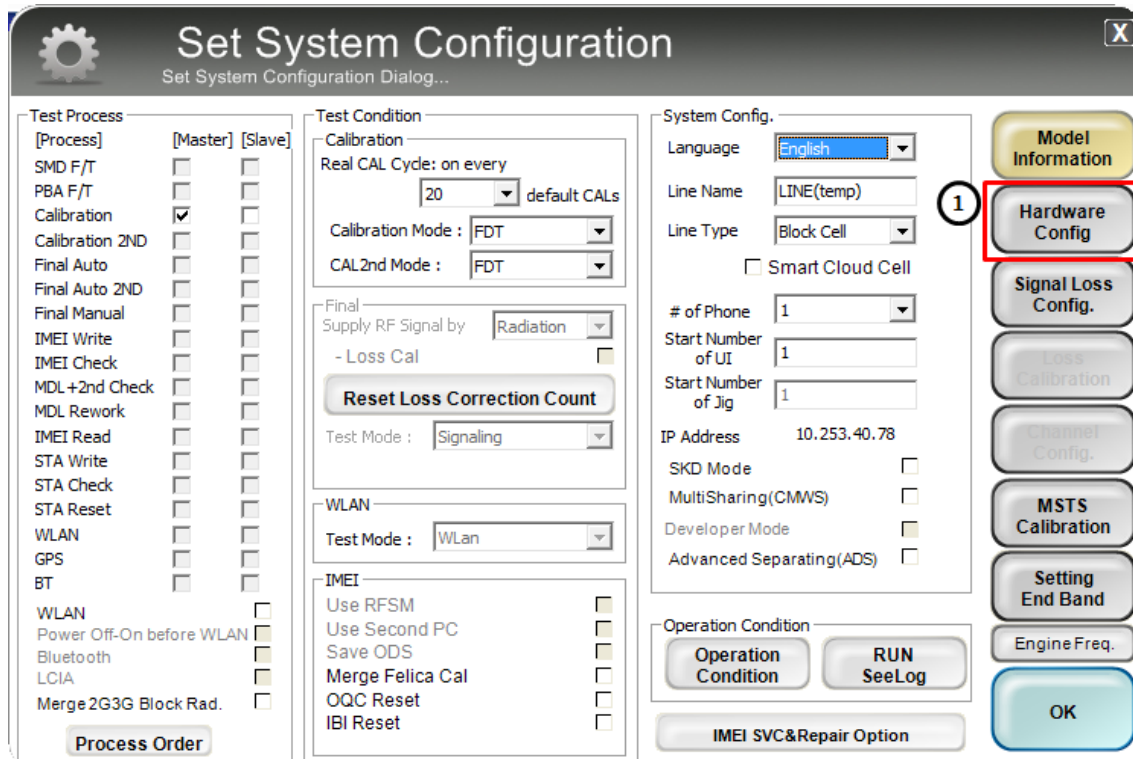
3. Check the 'CAL' and open the model file, then select 'Start' button.



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



- 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)



**Set System Configuration**  
Set System Configuration Dialog...

**Test Process**

[Process]	[Master]	[Slave]
SMD F/T	<input type="checkbox"/>	<input type="checkbox"/>
PBA F/T	<input type="checkbox"/>	<input type="checkbox"/>
Calibration	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Calibration 2ND	<input type="checkbox"/>	<input type="checkbox"/>
Final Auto	<input type="checkbox"/>	<input type="checkbox"/>
Final Auto 2ND	<input type="checkbox"/>	<input type="checkbox"/>
Final Manual	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Write	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Check	<input type="checkbox"/>	<input type="checkbox"/>
MDL+2nd Check	<input type="checkbox"/>	<input type="checkbox"/>
MDL Rework	<input type="checkbox"/>	<input type="checkbox"/>
IMEI Read	<input type="checkbox"/>	<input type="checkbox"/>
STA Write	<input type="checkbox"/>	<input type="checkbox"/>
STA Check	<input type="checkbox"/>	<input type="checkbox"/>
STA Reset	<input type="checkbox"/>	<input type="checkbox"/>
WLAN	<input type="checkbox"/>	<input type="checkbox"/>
GPS	<input type="checkbox"/>	<input type="checkbox"/>
BT	<input type="checkbox"/>	<input type="checkbox"/>
WLAN	<input type="checkbox"/>	<input type="checkbox"/>
Power Off-On before WLAN	<input type="checkbox"/>	<input type="checkbox"/>
Bluetooth	<input type="checkbox"/>	<input type="checkbox"/>
LCIA	<input type="checkbox"/>	<input type="checkbox"/>
Merge 2G3G Block Rad.	<input type="checkbox"/>	<input type="checkbox"/>

**Test Condition**

Calibration  
Real CAL Cycle: on every 20 default CALs  
Calibration Mode: FDT  
CAL2nd Mode: FDT

Final  
Supply RF Signal by: Radiation  
- Loss Cal   
**Reset Loss Correction Count**  
Test Mode: Signaling

WLAN  
Test Mode: WLAN

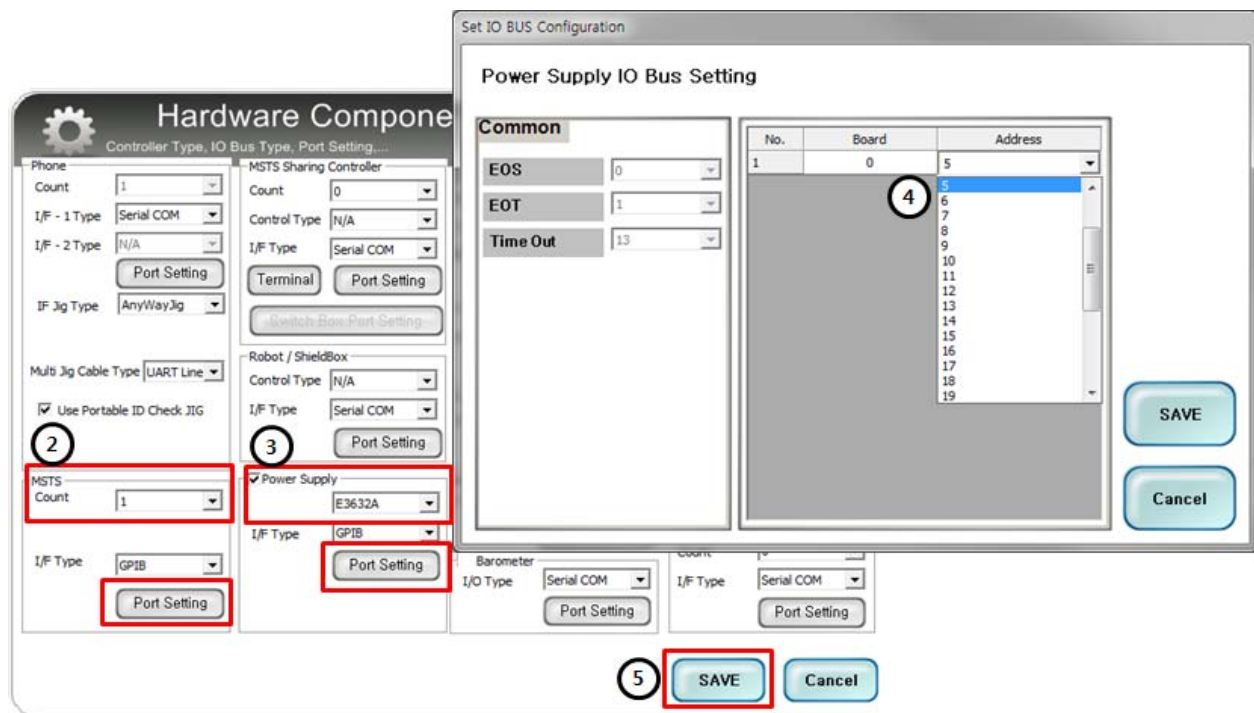
IMEI  
Use RFSM   
Use Second PC   
Save ODS   
Merge Felica Cal   
OQC Reset   
IBI Reset

**System Config.**

Language: English  
Line Name: LINE(temp)  
Line Type: Block Cell  
 Smart Cloud Cell  
# of Phone: 1  
Start Number of UI: 1  
Start Number of Jig: 1  
IP Address: 10.253.40.78  
SKD Mode   
MultiSharing(CMWS)   
Developer Mode   
Advanced Separating(ADS)

**Operation Condition**  
Operation Condition   
IMEI SVC&Repair Option

**Model Information**  
**Hardware Config**  
Signal Loss Config.  
Loss Calibration  
Channel Config.  
MSTS Calibration  
Setting End Band  
Engine Freq.



**Hardware Component**  
Controller Type, IO Bus Type, Port Setting...

Phone  
Count: 1  
I/F - 1 Type: Serial COM  
I/F - 2 Type: N/A  
IF Jig Type: AnyWayJig  
Multi Jig Cable Type: UART Line  
 Use Portable ID Check: JIG

MSTS Sharing Controller  
Count: 0  
Control Type: N/A  
I/F Type: Serial COM  
Robot / ShieldBox  
Control Type: N/A  
I/F Type: Serial COM

**2** MSTS Count: 1  
**3**  Power Supply: E3632A  
I/F Type: GPIB

**4**

No.	Board	Address
1	0	5
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		

**5**

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

