2-1. Radio Frequency & Channel

1) LTE BAND frequency

Equa.	Freq. Range	CH Range
	LB1:1920 ~ 1980	18000≤N≤18599
	LB2:1850 ~ 1910	18600≤N≤19199
	LB3:1710 ~ 1785	19200≤N≤19949
	LB4 : 1710 ~ 1755	19950≤N≤20399
	LB5 : 824 ~ 849	20400≤N≤20649
	LB7 : 2500 ~ 2570	20750≤N≤21449
	LB8 : 880 ~ 915	21450≤N≤21799
FUL = FUL_low+0.1(NUL-NOffs-UL)	LB12:699 ~ 716	23010≤N≤23179
	LB13 : 777 ~ 787	23180≤N≤23279
	LB17:704 ~ 716	23730≤N≤23849
	LB20:832 ~ 862	24150≤N≤24449
	LB28 : 703 ~ 748	27210≤N≤27659
	LB38 : 2570 ~ 2620	37750≤N≤38249
	LB40 : 2300 ~ 2400	38650≤N≤39649
	LB66 : 1710 ~ 1780	131972≤N≤132671
	LB1:2110 ~ 2170	0≤N≤599
	LB2:1930 ~ 1990	600≤N≤1199
	LB3:1805 ~ 1880	1200≤N≤1949
	LB4 : 2110 ~ 2155	1950≤N≤2399
	LB5 : 869 ~ 894	2400≤N≤2649
	LB7 : 2620 ~ 2690	2750≤N≤3449
	LB8 : 925 ~ 960	3450≤N≤3799
FDL = FDL_low+0.1(NDL-NOffs-DL)	LB12:729 ~ 746	5010≤N≤5179
	LB13 : 746 ~ 756	5180≤N≤5279
	LB17 : 734 ~ 746	5730≤N≤5849
	LB20:791 ~ 821	6150≤N≤6449
	LB28 : 758 ~ 803	9210≤N≤9659
	LB38 : 2570 ~ 2620	37750≤N≤38249
	LB41 : 2496 ~ 2690	39650≤N≤41589
	LB66 : 2110 ~ 2200	66436≤N≤67335



2) WCDMA BAND frequency

Equa.	Freq. Range	CH Range
	WB1 : 1920 ~ 1980	9612≤N≤9888
	WB2 : 1850 ~ 1910	9262≤N≤9538
Tx = N*0.2	WB4 : 1710 ~ 1755	1312≤N≤1513
	WB5 : 824 ~ 849	4132≤N≤4233
	WB8:880 ~ 915	2712≤N≤2863
	WB1 : 2110 ~ 2170	10562≤N≤10838
	WB2:1930 ~ 1990	9662≤N≤9938
Rx = N*0.2	WB4 : 2110 ~ 2155	1537≤N≤1738
	WB5 : 869 ~ 894	4357≤N≤4458
	WB8 : 925 ~ 960	2937≤N≤3088

3) GSM BAND frequency

Equa.	Freq. Range	CH Range
Tx = 824.2 + 0.2*(N-128)	GSM850 : 824 ~ 849	128≤N≤251
Tx = 890 + 0.2*(N-1024)	GSM900 : 880 ~ 915	975≤N≤1023
Tx = 1710.2+0.2*(N-512)	DCS : 1710 ~ 1785	512≤N≤885
Tx = 1850.2 + 0.2 (N-512)	PCS: 1850 ~ 1910	512≤N≤810
Rx = 869.2 + 0.2*(N-128)	GSM850 : 869 ~ 894	128≤N≤251
Rx = 935 + 0.2*(N-1024)	GSM900 : 925 ~ 960	975≤N≤1023
Rx = 1805.2+0.2*(N-512)	DCS : 1805 ~ 1880	512≤N≤885
Rx = 1930.2+0.2*(N-512)	PCS: 1930 ~ 1990	512≤N≤810



2-2. GSM / WCDMA / LTE General Specification

1) GSM BAND

lte	em	GSM 850	GSM 900	DCS1800	PCS1900
Freq. Ba Uplink/D	nd[MHz] Jownlink	824~849 869~894	880~915 925~960	1710~1785 1805~1880	1850~1910 1930~1990
ARFCN	I range	128~251	0~124 & 975~1023	512~885	512~810
Tx/Rx s	spacing	45 MHz	45 MHz	95 MHz	80 MHz
Mod. Bit rate/ Bit Period	GPRS	GPRS 270.833 Kbps 3.692 us 270.833 Kbps 3.692 us 270.833 Kbps 3.692 us		270.833 Kbps 3.692 us	
Time Slot Po Per		576.9 us 4.615 ms	576.9 us 4.615 ms	576.9 us 4.615 ms	576.9 us 4.615 ms
Modulation	GPRS	0.3 GMSK	0.3 GMSK	0.3 GMSK	0.3 GMSK
MS Power	GPRS	33 dBm~5 dBm	33 dBm~5 dBm	30 dBm~0 dBm	30 dBm~0 dBm
Power Level	GPRS	5 pcl~19 pcl	5 pcl~19 pcl 0 pcl~15 pcl		0 pcl~15 pcl
Sensitivity		-102 dBm	-102 dBm	-100 dBm	-102 dBm
TDMA Mux		8	8	8	8
Cell Radius		3 Km	3 Km	2 Km	2 Km



2) WCDMA BAND

ltem	WCDMA	WCDMA	WCDMA	WCDMA	WCDMA
	BAND1	BAND2	BAND4	BAND5	BAND8
Freq. Band[MHz]	1920~1980	1850~1910	1710~1755	824~849	880~915
Uplink/Downlink	2110~2170	1930~1990	2110~2155	869~894	925~960
ARFCN range	9612~9888	9262~9538	1312~1513	781~4233	2712~2863
	10562~10838	9662~9938	1537~1738	1006~4458	2937~3088
Tx/Rx spacing	190MHz	80MHz	400MHz	45MHz	45MHz
Mod. Bit rate/ Bit Period	3.84 Mcps/s				
Time Slot Period/Frame Period	10ms	10ms	10ms	10ms	10ms
Modulation	UL : HQPSK				
	DL : QPSK				
MS Power	Max:23.0dBm	Max:22.0dBm	Max:21.5dBm	Max:23.0dBm	Max:23.0dBm
	(+1~-3)dBm	(+1~-3)dBm	(+1~-3)dBm	(+1~-3)dBm	(+1~-3)dBm
	Min:<-50dBm	Min:<-50dBm	Min:<-50dBm	Min:<-50dBm	Min:<-50dBm
Power Level	Class3	Class3	Class3	Class3	Class3
Sensitivity	-106.7dBm	-104.7dBm	-104.7dBm	-104.7dBm	-104.7dBm



3) LTE BAND

	Downlink (MHz)			Bandwidth		Uplink (MHz)		Duplex spacing
Band	Low	Middle	High	DL/UL (MHz)	Low	Middle	High	(MHz)
		Earfcn	•		Earfcn			
	2110	2140	2170	60	1920	1950	1980	100
1	0	300	599	60	18000	18300	18599	190
0	1930	1960	1990	00	1850	1880	1910	00
2	600	900	1199	60	18600	18900	19199	80
0	1805	1842.5	1880	75	1710	1747.5	1785	05
3	1200	1575	1949	75	19200	19575	19949	95
	2110	2132.5	2155		1710	1732.5	1755	100
4	1950	2175	2399	45	19950	20175	20399	400
_	869	881.5	894		824	836.5	849	15
5	2400	2525	2649	25	20400	20525	20649	45
	875	880	885	10	830	835	840	
6	2650	2700	2749	10	20650	20700	20749	45
_	2620	2655	2690		2500	2535	2570	
7	2750	3100	3449	70	20750	21100	21449	120
_	925	942.5	960		880	897.5	915	
8	3450	3625	3799	35	21450	21625	21799	45
	729	737.5	746		699	707.5	716	
12	5010	5095	5179	17	23010	23095	23179	30
	746	751	756		777	782	787	
13	5180	5230	5279	10	23180	23230	23279	-31
	734	740	746		704	710	716	
17	5730	5790	5849	12	23730	23790	23849	30
	791	806	821		832	847	862	
20	6150	6300	6449	30	24150	24300	24449	-41
	758	780.5	803		703	725.5	748	
28	9210	9435	9659	45	27210	27435	27659	55
00	2110	2155	2200	00 / 70	1710	1745	1780	400
66	66436	66886	67335	90 / 70	131972	132322	132671	400
38	2570	2595	2620	50				
(TDD)	37750	38000	38249	50	-	-	-	-
40	2300	2350	2400	100				
(TDD)	38650	39150	39649	100	-	-	-	-

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2-3. GSM BAND TX power control level

TX Power Control Level	GSM850	GSM900	TX Power Control level	DCS1800	TX Power Control evel	PCS1900
5	33±2 dBm	33±2 dBm	0	30±2 dBm	0	30±2 dBm
6	31±3 dBm	31±3 dBm	1	28±3 dBm	1	28±3 dBm
7	29±3 dBm	29±3 dBm	2	26±3 dBm	2	26±3 dBm
8	27±3 dBm	27±3 dBm	3	24±3 dBm	3	24±3 dBm
9	25±3 dBm	25±3 dBm	4	22±3 dBm	4	22±3 dBm
10	23±3 dBm	23±3 dBm	5	20±3 dBm	5	20±3 dBm
11	21±3 dBm	21±3 dBm	6	18±3 dBm	6	18±3 dBm
12	19±3 dBm	19±3 dBm	7	16±3 dBm	7	16±3 dBm
13	17±3 dBm	17±3 dBm	8	14±3 dBm	8	14±3 dBm
14	15±3 dBm	15±3 dBm	9	12±4 dBm	9	12±4 dBm
15	13±3 dBm	13±3 dBm	10	10±4 dBm	10	10±4 dBm
16	11±5 dBm	11±5 dBm	11	8±4 dBm	11	8±4 dBm
17	9±5 dBm	9±5 dBm	12	6±4 dBm	12	6±4 dBm
18	7±5 dBm	7±5 dBm	13	4±4 dBm	13	4±4 dBm
19	5±5 dBm	5±5 dBm	14	2±5 dBm	14	2±5 dBm
-	-	-	15	0±5 dBm	15	0±5 dBm



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3. Product Function

Main Function

Item	Description
OS	Android V7.1
SM-J250F RF	2G : 850/900/1800 3G : 850/900/1900/2100 LTE : Band 1/3/5/7/8/20/38/40
SM-J250M RF	2G : 850/900/1800/1900 3G : Band 1/2/4/5/8 LTE : Band 1/2/3/4/5/7/8/12/13/17/28/66
SM-J250G RF	2G : 850/900/1800 3G : 850/900/1900/2100 LTE : Band 1/3/5/7/8/28/38/40
Battery	2,600mAh
Base Band	MSM8917 1.4GHz (Quad-Core)
Other RF	GPS, Glonass, Beidou, BT4.2, USB 2.0, WIFI 802.11 b/g/n 2.4GHz
Camera	8M+5M Camera
LCD	5.0" super AMOLED
RAM	1.5GB RAM + 16GB eMMC
Sensor	Accelerometer, Proximity Sensor
Accessory	Charger: 5V/1A Data cable : 0.8M USB-A Ejection Pin



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.



6-1. S/W installation

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

- Installation program: Downloader Program (Odin3 v3.12.5.exe)
- Mobile Phone
- Data Cable
- Mobile device specific S/W: Binary files

※ Settings



Mobile Phone(with Battery)

PC



Data Cable : GH39-01710D



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

■ Open up the S/W Installation Program by executing the "Odin3 v3.12.5.exe"

🖨 Odin3 v3.12		
Odin3 odin		57
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. NEW model : Download BL + AP + CP + HOME_CSC BL CP CP CCP CSC UMS Binary Size	md5
	Start Reset	Exit



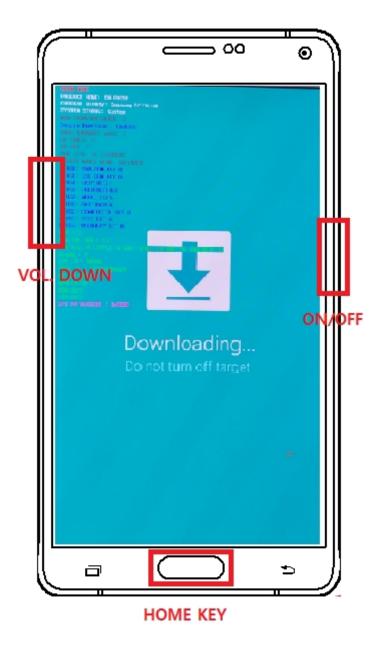
- 1. Enable the check mark by click on the following options,
- Check Auto Reboot, Re-Partition, and F. Reset Time-
- Check PIT
- Check Nand Erase All
- Check BL, AP, CP, and CSC Files
- * Note : "Odin v3.12 or above" checks MD5 checksum just after file selection.

Odin3 odin	
D:COM	
og Options Pit	Tips - How to download HOME binary OLD model : Download one binary "(BUILD_VER)_XXX_HOME.tar.md5" ex) G925FXXU3DPA5_G925FXXU3DPA5_G925FXXU3DPA5_HOME.tar.md5 NEW model : Download BL + AP + CP + HOME_CSC
PIT WHIOILI2IWPFPWGRACELTE_EUR_OPEN_HIDDEN10M.pit	BL
	FXXU1APFP_CL8543799_QB10173995_REV00_user_low_ship_meta.tar.
	CP
	CSC
	Binary Size 4957.4MB Mass D/L
	Start Reset Exit
ng Options Pit	IIps - How to download HUME 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
Nand Erase Re-Partition	N930FXXU1APFP_CL8543799_QB10173995_REV00_user_low_ship.tar.m
V F. Reset Time	FXXU1APFP_CL8543799_Q810173995_REV00_user_low_ship_meta.tar.m
DeviceInfo Flash Lock	CP
T Flash	CSC N930FBTU1APFP_CL8543799_QB10174307_REV00_user_low_ship.tar.m
Phone EFS Clear Phone Bootloader Update	
AutoStart	Binary Size 4957.4MB Mass D/L ►
Autostart	

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2. Enter into Download Mode

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





3. Connect the device to PC via Data Cable.

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

Odin3 v3.12					
Odin3 odin		1			E
ID:COM					
0:[COM346]	-				
Auto Reboot Auto Reboot Auto Rese Re-Partition		NEW model : D	N930FXXU1APFP_CL854379		EV00_user_low_ship.tar.mo
F. Reset Time		AP	FXXU1APFP_CL8543799_QB:	10173995_REV00_0	user_low_ship_meta.tar.mo
DeviceInfo		СР	N930FXXU1APFP_CL854379	9_QB10173995_R	EV00_user_low_ship.tar.m
T Flash		CSC	_N930FBTU1APFP_CL854379	9_QB10174307_RI	EV00_user_low_ship.tar.m
Phone EFS Clear		UMS			
Phone Bootloader Update		UNIS			4
AutoStart 🕞 💌	Bina	ry Size 49	57.4MB		Mass D/L 🕨
Set IMEI condition		ſ	Start)	Parat	Evit
			Start	Reset	Exit



4. Start downloading the binary files into the device by clicking Start button on the screen. The green colored "PASS!" sign will appear on the upper-left box if the binary files have been successfully downloaded into the device.

🗘 Odin3 v3.12		- 50			
Odin3 odin		1	Ę		E.
PASS					
01:37	36				
ID:COM		1			
Log Options Pit	_	ex) G925	ownload one binary "(BU	ILD_VER)_XXX_HOME.tar.m PA5_G925FXXU3DPA5_HOM OME_CSC	
Nand Erase		BL	_N930FXXU1APFP_CL	8543799_QB10173995_REV	100_user_low_ship.tar.md5
Re-Partition F. Reset Time		AP	FXXU1APFP_CL85437	99_Q810173995_REV00_us	er_low_ship_meta.tar.md5
DeviceInfo Flash Lock		CP	_N930FXXU1APFP_CL	8543799_QB10173995_REV	100_user_low_ship.tar.md5
T Flash		CSC	_N930FBTU1APFP_CL	8543799_Q810174307_REV	00_user_low_ship.tar.md5
Phone EFS Clear Phone Bootloader Update		UMS			
AutoStart -	Binar	y Size 49	57.4MB		Mass D/L ►
Set IMEI condition			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 Reset by Settings \rightarrow Accounts \rightarrow Backup and reset

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



6-2. IMEI writing

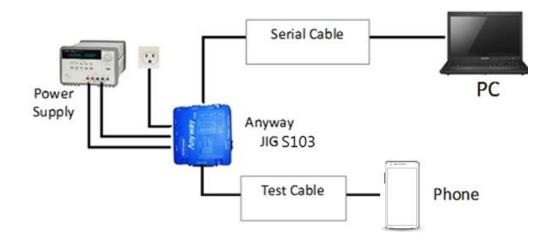
6-2-1. Preparation

- 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	 DASEUL_Runtime_Ver_3.1.299.0.CAB or higher -Uploaded on HHPsvc Notice Make 'ModelName' folder at the same position with launcher & Runtime file.
④Model File	Copy Model File under the 'Model Name' folder



6-2-2. IMEI writing Process

1. F	Run DASEUL_SVC_Launcher_v3.0.10.exe
	A DASEUL_SVC_Launcher_v3.0.10.exe
7	Select Service Mode
	DASEUL Launcher for Service Ver 3.0.10
	No. Processing Status 1 ::: Start Normal Mode for Service ::: Complete
	Select Extract Process [MODEL]
	Runtime
	SMD F/T
	CAL 2nd Final Auto
	Final 2nd IMEI
	WLAN GPS
	Extract & Run Close
	Nick and Colort folder where the Lowreber evicto
3. C	Click and Select folder where the Launcher exists
	No. 1900 1 ms Select Model Path
	■ 195 から © 301112月日 ● 3 20111月月 ● 3 2111月が少いかめくCS世営コ毎(9月)/TX/A日)/は世界内
	(2) 등 김유선 (2) 역권 20 명 개인 명 권 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)
	Select Extr.
	COMPARED SVC_Launcher_v3.0.10
	E Shat AC A Shat
	· 아유율및 영상 F 2411 · · · · · · · · · · · · · · · · · ·
	F 015
	Taty act is Pluz.
	「「 2015AN 」 「 2005」 「 2005 「 2005」

	R DASEUL Launcher for Service Ver 3,0,1	0 🗶	
	< Launcher Status >	MODE : Service	
	No. Processing	Status	
	Select Extract Process [MODEL] [Runting	System Setting	
	SMD F/T FBA F/T		
	Calbration CAL 2nd		
	Final Auto Final 2nd Fina		
	MEI SM-G930F_COMMON(CSC)_IME MLAN G95	_ver_s.1.120.a.CAB	
	E BT		
		Extract & Run Close	
Check IMEL and			
Once you setup	d click System Setting o the setting, you don t have to c /IEI and click Extract & Run.	lo it again, unless there is change. From second	d run of the IN
Once you setup	o the setting, you don t have to c IEI and click Extract & Run.		d run of the IN
Once you setup	o the setting, you don t have to c IEI and click Extract & Run.	MODE : Service	d run of the IN
Once you setup	o the setting, you don t have to c IEI and click Extract & Run.	MODE : Service Status Complete Complete Complete	d run of the IN
Once you setup	o the setting, you don t have to c MEI and click Extract & Run.	MODE : Service Status Complete Complete I29.0.CAB Fleing	d run of the IN
Once you setup	o the setting, you don t have to c AEI and click Extract & Run. CASEUL Launcher for Service Ver 3.0 CASEUL Launcher for Service Ver 3.0	MODE : Service Status Complete Complete 29.0.CAB File ing WDesktopW3MEI 	d run of the IN
Once you setup	o the setting, you don t have to c AEI and click Extract & Run. Image: Construct the setting of the se	MODE : Service Status Complete Complete 29.0.CAB File ing WDesktopW3MEI 	d run of the IN
Once you setup	o the setting, you don t have to c AEI and click Extract & Run. Image: Construct to the setting of the	MODE : Service Status Complete Complete 29.0.CAB File ing WDesktopW3MEI 	d run of the IN
nce you setup	o the setting, you don t have to c AEI and click Extract & Run. Image: Comparison of the setting of th	MODE : Service Status Complete Complete Complete I29.0.CAB File Image I29.0.CAB File Image I29.0.CAB Image	d run of the IN
nce you setup	o the setting, you don t have to c AEI and click Extract & Run. Image: Comparison of the setting of th	MODE : Service Status Complete Complete Complete I29.0.CAB File Image WDesktopWIMEI System.Setting I29.0.CAB	d run of the IN

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<image/> <form></form>	Check IMEI Write / IMEI Che	eck and click IMEI SVC	& Repair Option.	
Browsell Wattell Biver Calibration Calibration Model Hardware Browsell Calibration Calibration Calibration Hardware Hardware Frail Auto 200 Frail Auto 200			on	X
Check SVC , User Ticket No and click OK MEI SVC && Repair Option FTR N/A Rework N/A Korean SVC Write SVC User Ticket No SELA MIAMI N/A Local FOTA Check DEVELOPE Repair Board SVC Factory Reset Romania SVC Initial PGM(SVC) Turkey ATT Rework Slovakia SVC IMEI Clear(Factory) GED 2nd Inspection Outgoing Inspection Check SBSC(PBA) SVC	[Process] [Master] [Slave] Calil SMD F/T Image: Calil Real PBA F/T Image: Calil Calibration Image: Calil Calibration 2ND Image: Calil Calil Calil Final Auto Image: Calil Calil Calil IMEI Write Image: Calil Image: Calil Calil IMEI Read Image: Calil Image: Calil Image: Calil Calil IMEI Read Image: Calil Image: Calil	ration CAL Cycle: on every 20 default CALs bration Mode : FDT 2nd Mode : FDT Iv RF Signal by Conduction eset Loss Correction Count Mode : Signaling N Mode : WLan RFSM Second PC e ODS ge Felica Cal CReset Reset	Language English ▼ Line Name LINE(temp) Line Type IPerson Cell ▼ ✓ Smart Cloud Cell # of Phone 1 ▼ Start Number of UI 1 Start Number 1 IP Address 10.244.246.156 SKD Mode MultiSharing(CMWS) Developer Mode Advanced Separating(ADS) Operation Condition Operation RUN SeeLog	Information Hardware Config Signal Loss Config. Coss Calibration Config. Confi
Image: SVC User Ticket No SELA MIAMI N/A 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	Check SVC , User Ticket No MEI SVC && Repair Option	and click OK		X
DEVELOPE Repair Board SVC Factory Reset Romania SVC Argentina SKD Initial PGM(SVC) Turkey ATT Rework Slovakia SVC IMEL Clear (Factory) GED 2nd Inspection Outgoing Inspection Check SBSC (PBA) SVC	,			_
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Initial PGM(SVC) Turkey ATT Rework Slovakia SVC IMEI Clear (Factory) GED 2nd Inspection Outgoing Inspection Check SBSC(PBA) SVC			SVC Factory Reset	
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Outgoing Inspection Check SBSC(PBA) SVC		Slovakia SVC		
	IMEI Clear(Factory)	GED 2nd Inspection		
OK CANCEL	Outgoing Inspection Check	SBSC(PBA) SVC		
			ОК	CANCEL

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8. Click Hardware Config	
💏 Set Sv	vstem Configuration
Set System Con	figuration Dialog
Test Process [Master] [Slave] SMD F/T Image: SMD F/T PBA F/T Image: SMD F/T Calibration Image: SMD F/T Final Auto Image: SMD F/T IMEI Check Image: SMD F/T MDL Rework Image: SMD F/T IMEI Read Image: SMD F/T MLR Image: SMD F/T STA Check Image: SMD F/T STA Check Image: SMD F/T STA Check Image: SMD F/T BT Image: SMD F/T WLAN Image: SMD F/T WLAN Image: SMD F/T Bluetooth Image: SMD F/T LCIA Image: SMD F/T Werge: 2G3G Block Rad. Image: SMD F/T	Test Condition Calibration Real CAL Cycle: on every 20 Calibration Mode : FDT CAL 2nd Mode : FDT Final Supply RF Signal by Conduction Final Supply RF Signal by Conduction Final Supply RF Signal by Conduction Test Mode : Signaling WLAN Test Mode : WLan MEI Use RFSM Use RFSM Use Second PC Save ODS Merge Felica Cal OQC Reset IBI Reset System Config. WLAN Test Mode : WLan Operation Condition Operation Condition Operation Condition See Logs Ok Operation Condition Reset Ok Ok
9. Click Port Setting	
🔥 Hard	Iware Component Configuration
Phone Count 1 I/F - 1 Type Serial COM I/F - 2 Type N/A Port Setting	MSTS Sharing Controller Count 0 Control Type N/A I/F Type Serial COM Terminal Port Setting Power Detector PBA F/T Function Test JIg Port Setting Power Detector Power Detector Power Setting Power Setting Pot Setting Pot Setting Power Setting Pot Settin
IF Jig Type AnyWayJig	Robot / ShieldBox Type N/A Image: March and the march and
Use ID Check JIG	I/F Type Serial COM Port Setting MES PN Sender Type N/A SMD F/T Type N/A
Count 0 v	I/F Type GPIB Rort-Setting Rort-Setting Rort-Setting
I/F Type GPIB	Port Setting
	Cancel

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Set IO E	BUS Configu	ration								
Pho	one IO E	Bus S	ettin	g						
Cor	nmon				No	Port	#1			
Ba	udRate	11	5200		1			_		
Dat	ta Bit	8								
Pa	rity	No		-						
Sto	op Bit	1		_						
				- 11						
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	ed Test Process [Process]		et Sy terr Conf	Calibration		Iration System C Languag		•	Model	
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	Test Process	[Master]	[Slave]	- Test Condition - Calibration Real CAL Cycl	e: on every 20 💌 defai	System C Languag	e English e LINE(temp)	•	Model	
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Model Model Name	H/W Ver None S/W Ver None	SKU CSC	None None	DB Serv None Buyer None		Block Cell 1'st
Process IMEI Write(M) - IMEI Chec PGM Ver DASEUL_v3.1.213.0 / IME						
	Phone 01					
Status Press [STAR]	ALL] Button!!!					
Result None						
	verage : 0.0 second)					
Fail(%) Total Test: 0, 1	Test Fail: 0 (Rate: 0.0%)					
Phone 01		RFSM : Not	Use 🕄 🏾 📚 💊	5 m		;
[Status] Phone01 [Result] Phone01 [I	info] Phone01 [IME] Phone01 [Version Info		4 k	· .		0(0.0%)
IMEI Num,] - - IMEI Num(Slave) - - -	SN Num			SAMS	UNG ELECTRONICS	
IMEI Num(3rd)			Apply			
Lock Setting Code Field Network UnLock Key			Reset			
Subset UnLock Key SP UnLock Key			Model		S	tart
Master Key			Info			
					S	top
					Re	eset
3		# C	0		\wedge	2
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	ing Test Item H/W Setting Set	ting(Etc.) Etc Func.	Data	evel : [01-Error] 🎴		Help
Auto Recipe Set	ing Test Item H/W Setting Set	ting(Etc.)	Data	evel : [01-Error] 🏠		Help
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Auto Recipe Set	ing Test Item H/W Setting Set	ting(Etc.) Etc Func	Data	evel: (01-Error) 🏊		Help
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Auto Recipe Set	res Test tem HW Setting Set rs] [DBMSType: Outside-WebSVC] entOne VSFlexGrid8 (Light) Com Versi	OMDO ponentOne VSF ion: 8,0,20 This dialog box v the program u	Data It PNENT IexGrid8 (Li D101, 261 vill not be sho using a licens	t One ight) wwn if you reco red version of th	R 2016-07	Help
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Auto Recice Set # [One Step] # [Machine Freq : 100 r About Compone Online	entOne VSFlexGrid8 (Light) entOne VSFlexGrid8 (Light)	OMDO ponentOne VSF ion: 8,0,20 This dialog box v the program u tone.com Web store support.vsflex	Data Concernit IexGrid8 (Li 0101,261 will not be sho using a licens Chec Rese	ight)	R 2016-07	Help
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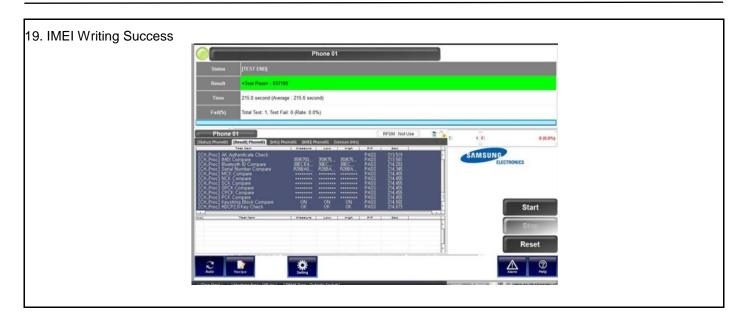
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14. Input SKU_CODE ar ※ Refer to HHPsvc→IM			
	EI Writing Items		x
		2	
	CSC	SM-J250F VPG2	_^^
	PDA Software2	SM-J250F PG2	E
	LPD		
	Contents	-	
	DMB		
	SKU_CODE	SM-J250F FDBT	
	BUYER	DBT	
	Material_Code		
	Boot		
1	Factorii Software		·
Г	FactoryReset+Check Pre Product 2nd Func Test (AT&T)	MDL Rework STA Option Main Repair Sub PBA Repair(Grip) Sta Option Don't DB Upload Packing Rework	
	 Lock Write (OQC) 2nd Check after Pwr Re 	SMD Test NV Write Tizen Download	
		ation) THigh Speed Boot Skip S-PEN is not inserted(Seed)
		Check Recent List Check(OQC&IBI) Check IMEI Dupli [F	
		ave Load Cancel	0]
15. Input IMEI Number a	nd alial Annhy		
TS. Input INLTNumber a			
Model Mod	el Name S/W Ver		ell Type Block Cell C NO. 1'st
	e(M) - IMEI Check(M) Service v3.1.213.0 / IMEI(r00338)		
PGM Ver DASEUL		hone 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		T: 0 F:	0(0.0%)
[Status] Phone01 [Pe	uti Phone01 [Info] Phone01 [IME] P	Phone01 [Version Info] [Fail] All	
[MEI Num(Slave)			ECTRONICS
IMEI Num(3rd)		Apply	
Lock Setting Code Field			
Network UnLock Subset UnLock K SP UnLock Key		Reset	Chart
Master Key		info	Start
			Stop
			Reset
<u> </u>	cipe Setting Test Item chine Freq : 100 ms] [DBMS Type : Out	HW Setting Setting(Etc.) Etc Func, Data	Airm P R 2016-07-06 16:53:28 ##

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16. ① Click Start, and input IMEI writing ID and Password \rightarrow ②input Ticket No	
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%)	
User Login	
Phone 01 [Status] Phone01 [Info] Phone01 [Info] Phone01 [IME]] F E Enter Service Login User ID and Password to Start OK CANCEL	
IMEI Num. 339575 - 04 - 037105 4 User ID : MEPersonal Lock Pessword : Login W ELECTRONICS	
Code Field Network UnLock Key	
Subset UnLock Key Message - Model Info SP UnLock Key Master Key Model Info	
Start	
Stop	
Reset	
Auto Recipe Setting	
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 Phone 01	
Status FactoryReset Poll	
Rosult <or>: [WR_Proc] Total Memory Size Compare Time 56.8 second (Average : 0.0 second)</or>	
Fail(%) Total Test: 0, Test Fail: 0 (Rate: 0.0%)	
Phone 01 RESM: Net Use To Point Of Poin	
WIL-Prec 2 With Advess Read WIL-Prec 2 with Number With RX20A0_PAGS 42,529 WIL-Prec 2 with Number With RX20A0_PAGS 48,644 WIL-Prec 2 With Number With RX20A0_PAGS 48,011	
WIL.Prec. WIL Addess Read (WIL.Prec.) ADDEB.A (WIL.Prec.) PAGS (WIL.Prec.) 4100 (WIL.Prec.) Filter (WIL.Prec.) Filter (WIL.Prec.) <th columnt<="" td=""></th>	
(WE, Prec) CPCK: Write PASS 52 (M7) (WE, Prec) CPCX Status PASS 52 (66) (WE, Prec) CPCX Status PASS 52 (66) (WE, Prec) Text (Amount of the status) PASS 52 (66) (WE, Prec) Text (Amount of the status) PASS 52 (66) (WE, Prec) Text (Amount of the status) Status Status	
COST VER NOT LIVERUNG LAND VIEW STATE AND STOP	
Pause	
🔀 💽 🗱	

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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-J250F_OPEN_CALIBRATION_Ver_3.1.298.3.CAB)

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

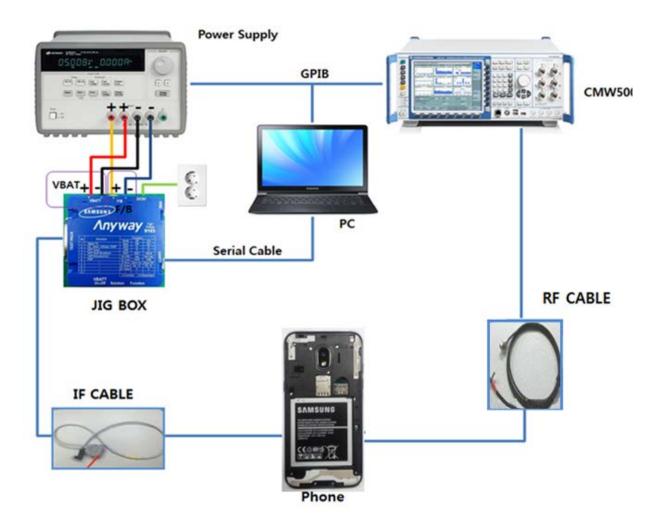
- Mobile Phone
- R&S CMW500
- E3632A Power Supply
- GPIB Cable (2ea)
- JIG BOX (GH81-12520B)
- IF Cable (GH81-10952A)
- Adapter (GH81-11888K)
- UART Serial Cable
- RF Cable (GH81-11962G)

✤ Table of test cables

	GH81-10952A
IF Cable	7 pin (NEW)
	GH81-11962G
RF Cable (Manual)	1.35T, 1750mm



Setting





6-3-2. RF Calibration Program

- 1. Run the RF Calibration Program Launcher, 'DASEUL_Launcher_vx.x.xx.exe'.
 - DASEUL_CAL_ALL_Runtime_3.1.257.0_r00455.CAB
 - BASEUL_Launcher_v4.0.0.exe
 - Model Name PEN_CALIBRATION_Ver_3.1.257.1.CAB
- 2. Check the 'Calibration' menu, and select 'Extract & Run'.

Laun	cher Statu	5 >	
No.	Processin	g	Status
1	::: Start I	Normal Mode :::	Complete
selec	t Extract P	rocess	
RI	untime	DASEUL_Runtime_Ver_3.1.28	88.0.CAB
SI	MD F/T		
	BA F/T		
Ca	alibration	r00492 Model Name _OPEN_C	CALIBRATION_Ver_3.1.291.0T1
C	AL 2nd		
🗌 Fi	nal Auto		
🗌 Fi	nal 2nd		
IN IN	1EI		
	/LAN		
G	PS		
	т		

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

		quence Files &	Control of	
SMD F/T	File C:\UDIST\UDASEUL		•	
✓ CAL CAL2nd 열기	[<u> </u>	
찾는 위치(!): 최근 위치 바탕 화면 라이브러리 컴퓨터 데트워크	이름	.OPEN_CALIBRATION_Ver_3,1,29 • PEN_CALIBRATION_Ver_3.1.291.0T	수정한 날짜	유형 ALZip ENC Fi
	파일 이름(N): 파일 형식(T):	 Sequence Files (*,seq.enc)	•	열기(0) 취소

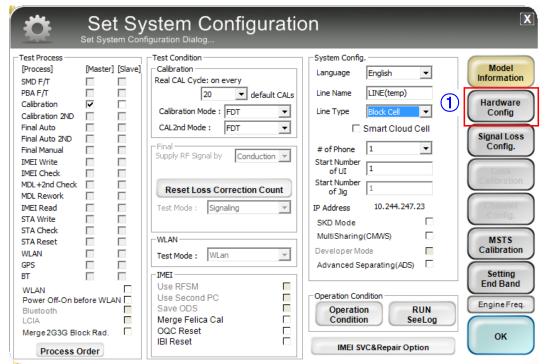


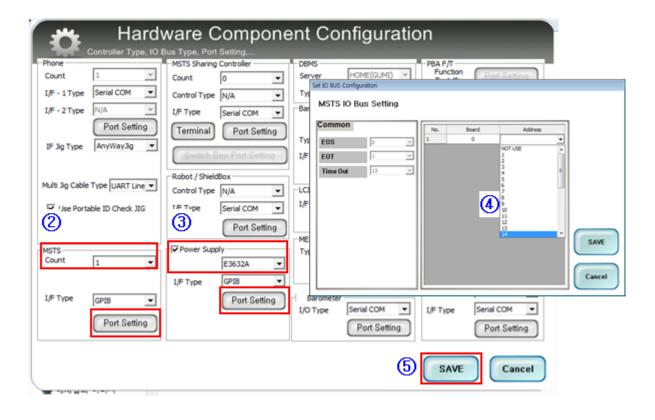
4. Change the Line Type to 'Block Cell' and disable 'Smart Cloud Cell'.

Set System Configuration Dialog	<u>X</u>
[Process] [Master] [Slave] SMD F/T Real CAL Cycle: on every PBA F/T Calibration Calibration 2ND Final Auto Final Auto Final Manual IMEI Write IMEI Check MDL +2nd Check MDL +2nd Check MDL Rework IMEI Read STA Check WLAN WLAN WI AN WI AN WI AN IMEI WI AN IMEI WI AN Calibration IV IMEI Calibration Mode : Final State WI AN IMEI WI AN IMEI VI AN Image: Im	System Config. Language English Line Name Line Type Block Cell I NP Cell Smart Cloud Cell # of Phone 1 Start Number of UI 1 Start Number of Jig 1 P Address 10.253.20.235 SKD Mode MultiSharing(CMWS) Developer Mode Advanced Separating(ADS) SubpartsLife Deration Condition Operation Condition Operation Condition Condition Model Information Hardware Config Signal Loss Config. Signal Los



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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	t System Configur	ation	X
Test Process [Process] [Master] SMD F/T PBA F/T Calibration 2ND Final Auto 2ND Final Auto 2ND Final Auto 2ND Final Manual IMEI Write IMEI Check MDL +2nd Check MDL +2nd Check MDL Rework IMEI Read STA Write STA Check STA Check STA Check STA Reset WLAN GPS BT WLAN Power Off-On before WLA Bluetooth LCIA Merge 2G3G Block Rad. Process Order	Test Condition Calibration Real CAL Cycle: on every 20 default Calibration Mode : FDT CAL2nd Mode : FDT CAL2nd Mode : FDT Final Supply RF Signal by Conduction Test Mode : Signaling WLAN Test Mode : WLan IMEI Use Second PC Save ODS Merge Felica Cal OQC Reset IBI Reset	Line Type Block Cell Smart Cloud Cell # of Phone Start Number of UI Start Number	Model Information Hardware Config Signal Loss Config. Calibration Setting End Band Engine Freq. OK

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

		D. 7 Permission. Admin j	H/W Ver	REV0.2	SKU		DB Serv	HOME(GUMI)	Cell Type		
Model			S/W Ver	None	CSC	xx 1	Buyer	XX	PC NO.	Block Cell NONE	
Process	Calibration(M)										
PGM Ver	DASEUL_v3.1.2	288.0 / Calibration(r00492)								
		Phone 01					Path Loss Measure Mode				
	Status	Press [START ALL] B	utton!!!								
	Result	None									
	Time	0.0 second (Average :)	0.0 second)								
	Fail(%)	Total Test: 0, Test Fail:	0 (Rate: 0.0%)								
U/N : -	N:- 208CR:-										
Phone 01 [Status] Phone01 [Result] Phone01 [Version Info] [Fail] All T: 0 F: 0(0.0%)											
Time			Status					1.0			
23 15:55 23	5 01 UlnitTes 01 Instrum 1 01 UlnitTes 1 01 UlnitTes 01 Instrum 3 01 UlnitTes 5 01 UlnitTes	It.og., Factory TestLo Jp BackUp Init Cr Inrent Sleep Current Stage Current It.og., Factory TestLo It.og., Factory	g_Disable Init Complete implete Init Complete Init Complete Genable Init Complete Complete Init Complete Init Complete SAT-V2 Init Complete Genable Init Complete Complete St Init Complete Complete STS Init Start Is o urrent = -0.12974[mA] ent = -0.2 ents					AMSUNG H		Start Stop Reset	

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