

2-1. GSM General Specification

lto	em	GSM850	EGSM 900	DCS1800	PCS1900
-	and[MHz] Downlink	824~849 869~894	880~915 925~960	1710~1785 1805~1880	1850~1910 1930~1990
ARFC	N range	128~251	0~124 & 975~1023	512~885	512~810
Tx/Rx	spacing	45MHz	45MHz	95MHz	80MHz
	Bit rate/ Period	270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 3.692us
	ot Period/ Period	576.9us 4.615ms	576.9us 4.615ms	576.9us 4.615ms	576.9us 4.615ms
Modulation	GSM/ GPRS	0.3GMSK	0.3GMSK	0.3GMSK	0.3GMSK
MSI	Power	33dBm ∼5dBm	33dBm ~5dBm	30dBm ~0dBm	30dBm ~0dBm
Powe	r Class	5pcl ~ 19pcl	5pcl ~ 19pcl	0pcl ~ 15pcl	0pcl ~ 15pcl
Sens	sitivity	-102dBm	-102dBm	-102dBm	-102dBm
TDM	A Mux	8	8	8	8
Cell F	Radius	35Km	35Km	2Km	2Km

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2-2. GSM Tx Power Class

GSM850	TX Power control level	EGSM900	TX Power control level	DCS1800	TX Power control level	PCS1900	TX Power control level
33±2 dBm	5	33±2 dBm	5	30±3 dBm	0	30±3 dBm	0
31±2 dBm	6	31±2 dBm	6	28±3 dBm	1	28±3 dBm	1
29±2 dBm	7	29±2 dBm	7	26±3 dBm	2	26±3 dBm	2
27±2 dBm	8	27±2 dBm	8	24±3 dBm	3	24±3 dBm	3
25±2 dBm	9	25±2 dBm	9	22±3 dBm	4	22±3 dBm	4
23±2 dBm	10	23±2 dBm	10	20±3 dBm	5	20±3 dBm	5
21±2 dBm	11	21±2 dBm	11	18±3 dBm	6	18±3 dBm	6
19±2 dBm	12	19±2 dBm	12	16±3 dBm	7	16±3 dBm	7
17±2 dBm	13	17±2 dBm	13	14±3 dBm	8	14±3 dBm	8
15±2 dBm	14	15±2 dBm	14	12±4 dBm	9	12±4 dBm	9
13±2 dBm	15	13±2 dBm	15	10±4 dBm	10	10±4 dBm	10
11±3 dBm	16	11±3 dBm	16	8±4 dBm	11	8±4 dBm	11
9±3 dBm	17	9±3 dBm	17	6±4 dBm	12	6±4 dBm	12
7±3 dBm	18	7±3 dBm	18	4±4 dBm	13	4±4 dBm	13
5±3 dBm	19	5±3 dBm	19	2±5 dBm	14	2±5 dBm	14
				0±5 dBm	15	0±5 dBm	15

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2-3. WCDMA General Specification

	WCDMA2100	WCDMA1900	WCDMA850	WCDMA900
Freq. Band[MHz] Uplink/Downlink	1922~1977 2112~2167	1852~1907 1932~1987	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:2712~2863 DL:2937~3088
Tx/Rx spacing	190MHz	80MHz	45MHz	45MHz
Mod. Bit rate/ Bit Period	3.84 Mcps	3.84 Mcps	3.84 Mcps	3.84 Mcps
Time Slot Period /Frame Period	Frame Length: 10ms Slot length: 0.667ms	Frame Length: 10ms Slot length: 0.667ms	Frame Length: 10ms Slot length: 0.667ms	Frame Length: 10ms Slot length: 0.667ms
Modulation	QPSK/HQPSK	QPSK/HQPSK	QPSK/HQPSK	QPSK/HQPSK
MS Power	24dBm~-50dBm	24dBm~-50dBm	24dBm~-50dBm	24dBm~-50dBm
Power Class	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)	3(max+24dBm)
Sensitivity	-106.7dBm	-104.7dBm	-104.7dBm	-103.7dBm
TDMA Mux	8	8	8	8
Cell Radius	2Km	2Km	2Km	2Km

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2. Specification



2-4. LTE General Specification

	LTE Band1	LTE Band3	LTE Band5	LTE Band7	LTE Band8	LTE Band 20	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	704~716 734~746	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: 24150~24449 DL: 6150~6449	38650~39649
Tx/Rx spacing	190MHz	95MHz	45MHz	120MHz	45MHz	41MHz	
Channel Bandwidth	60 MHz	75 MHz	25 MHz	70 MHz	35 MHz	30 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
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	- 35~25.7dBm
Sensitivit (QPSK) (BW 10MHz)	-94 dBm	-92 dBm	-92 dBm	-95dBm	-95dBm	-95dBm	-97dBm
Cell Radius	>5Km	>5Km	>5Km	>5Km	>5Km	>5Km	>5Km



3. Operation Instruction and Installation

Main Function

Item	Description
OS	Android 6.0.1
RF	2G GSM, 3G WCDMA, 4G LTE FDD,
Battery	3100mAh
Base Band	1.2GHz Quad core
Other RF	Bluetooth 4.1, WIFI 802.11 b/g/n 2.4GHz,USB2.0, GPS, Glonass ,NFC
Camera	13MP AF with LED Flash, 5MP Front camera with LED Flash
LCD	5.2" / 720*1280(Super AMOLED)
Memory	16GB eMMC,2Gb DDR
Sensor	Accelerometer, Proximity, Hall IC, Grip,
	Charger: 5V/1.55A, White
Accessory	Data Cable : 3.0PI, 0.8M, White
	Ear phone: 3.5PI, 4Pin



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



1-1. 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.

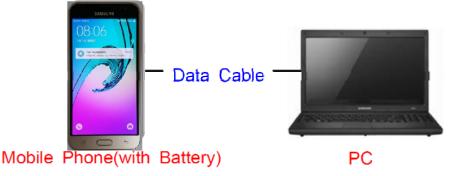
The potential for static electricity discharge may be increased in low humidity environments, such as air-conditioned rooms. Increase the airflow to the working area to decrease the chance of accidental static electricity discharges.



6-1. S/W Download

6-1-1. Prepare for S/W Downloading

- Diagram of connection



6-2-2. How to download S/W

1) Downloading Binary Files

- Binary file for downloading SM-J510FN
 - AP_XXXX.tar.md5
 - BL_XXXX.tar.md5
 - CP_XXXX.tar.md5
 - CSC_XXXX.tar.md5
 - (file size is about 2.2GB)

2) Prepare for Downloading

- Downloader Program (Odin3 v3.10.exe)
- SM-J510FN Mobile Phone
- Data Cable
- · Binary files

3) Boot the mobile phone by pressing 'Home + Vol Down + Power key at the same time, If you do properly, you can see the following message on the main LCD as the following.





4) Press the Vol Up Key again, and you will see below message on Main LCD.



5) Load the binary download program.



din3 v3.10.7 Odin3 odin				PC)
0:[COM680]				
og Options Pit	Files [Download]			
Auto Reboot	BL			
Re-Partition	AP			
F. Reset Time	СР			
	CSC			
Flash Lock				
T Flash				
Phone EFS Clear				
Phone Bootloader Update	Binary Size			
AutoStart -	Binary Size			Mass D/L
		Start	Reset	Exit

6) Choose "RTN for Sprint"

Odin3 v310.7 Odin3 odin			
D-COM			
Log Options Pit	Pies [Download]		
Phone Bootloader Update AutoStart	Bnery Sze	tart Reset	Mass D/L +

7) Slect the file as above:

- AP_XXXX.tar.md5
- BL_XXXX.tar.md5
- CP_XXXX.tar.md5
- CSC_XXXX.tar.md5

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▶ 문서 ▶ 2016 J5 ▶ 바이너리 ▶ PC4	▼ 🍫 PC4 검색	1		
새 풀더				je •
문서 라이브러리 PC4				정렬 순서
이름	수정한 날짜	유형	크기	
J5XNLTE_EUR_OPEN.pit	2016-03-11 오후 1:58	PIT 파일	5KB	
AP_J510FNXXE0APC4_CL7468788_QB8887385_REV00_eng_mid_noship_MULTI_CERT.tar.md5	2016-03-11 오후 2:01	MD5 파일	1,813,041	
BL_J510FNXXE0APC4_CL7468788_QB8887385_REV00_eng_mid_noship_MULTI_CERT.tar.md5	2016-03-11 오후 2:01	MD5 파일	14,411KB	
CSC_OXY_J510FNOXY0APC4_CL7468788_QB8887385_REV00_eng_mid_noship_MULTI_CERT.tar.md5	2016-03-11 오후 2:02	MD5 파일	106,971KB	
CP_J510FNXXE0APC4_CL7468788_QB8887385_REV00_eng_mid_noship_MULTI_CERT.tar.md5	2016-03-11 오후 2:02	MD5 파일	45,671KB	

7) Connect mobile and computer. The program show as follow.

📮 Odin3 v3.10.7	
Odin3 odin	
ID:COM	
Log Options Pit	Files [Download]
	BL K3_CL6236492_QB7076947_REV00_user_low_noship_MULTI_CERT.tar.md5
Auto Reboot RTN for Sprint Re-Partition	AP K3_CL6236492_QB7076947_REV00_user_low_noship_MULTI_CERT.tar.md5
F. Reset Time DeviceInfo	CP CP CP CP C2_QB7076947_REV00_user_low_noship_MULTI_CERT.tar.md5
Nand Erase All	CSC
Flash Lock	
Phone EFS Clear	
Phone Bootloader Update	
AutoStart 🕘 💌	Binary Size 2490.7MB Mass D/L ►
	Start Reset Exit

8) Now press the button "Start".

9) Now it's time to take a rest and finish the downloading.

10) After finished downloading of phone binary, the mobile phone will restart automatically.





 11) Once the device boots up, you can check the version of the binary file or name by pressing the following code in sequence;
 *#1234#

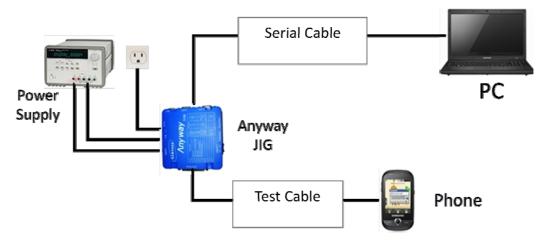
You can perform Factory Reset by Settings \rightarrow Accounts \rightarrow Backup and reset

% 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"
②Launcher	DASEUL_SVC_Launcher_v3_0_25 or higher -Uploaded on HHPsvc Notice
③ Runtime File	 DASEUL_IMEI_ALL_Runtime_3.1.136_r00183 .CAB or higher -Uploaded on HHPsvc Notice Make 'ModelName' folder at the same position with launcher & Runtime file. DASEUL_IMEI_ALL_Runtime_3.1.136.0_r00183.CAB DASEUL_Launcher_v3.0.25.exe SM-J510FN_IMEI_Ver_3.1.132.0.CAB
④Model File	Copy Model File under the 'Model Name' folder



6-2-2 IMEI writing Process

Select Service Mode		ĩ		
auncher Status >	MODE :	Service -		
o. Processing 1 ::: Start Normal Mode for Service :::	Status Complete			
elect Extract Process	System	letting		
Runtime _SMD F/T PBA F/T				
Calibration				
CAL 2nd Final Auto				
Final 2nd				
WLAN				
WLAN	Ext	act & Run Close		
SEUL Launcher for Service Ver 3.0.10 auncher Status > 2년 것이보기 5. Proc 1 :::: S Select Model Path 1 :::: S E 바망 화면 10 ::: 2리 의의 브리리 10 ::: 2월 기월 /Slobal CS운영그룹(무선)/T3(t folder where	the Launcher e	xists	
WLAN GPS B I Click and Select SEUL Launcher for Service Ver 3.0.10 under Status > Select Model Path Image 2019221 Select Model Path Image 2019221	ct folder where দষ্ঠা/৫৫৫০ফ	the Launcher e	xists	

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cher Status >		MODE :	Service	-			
Processing		Status		_			
EXUACT PIOCESS							
MODEL] SM-J5	LOFN .	System	Setting				
untime MD F/T							
BA F/T							
albration AL 2nd				_			
nal Auto							
IEI SM-N910	F_COMMON(CSC)_IMEI_Ver_3.	1.120.6.CAB					
PS							
T							
		Ext	tract & Run	Close			
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nge. From	second run	of the IME	El prograr				
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DASEUL Laur DASEUL Laur < Launcher Statu No. Processi 1 Kil Progr 2 Remove 3 Extraction Select Extract P [MODEL] F Runtme F SMD F/T F PBA F/T F Celbraton F CAL 2nd F Final Auto F Calmand F JIMEL F VILA F GPS	a second run cher for Service Ver s > g am Old Files (0 Files) g DASEUL_Runtime_Ver, SM-J510FN DASEUL_Runtime_Ver	of the IME 3.0.10 _3.1.129.0.CAB File yeongWDesktopWIMI 	El progran	n, che	eck IME		

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6. Check 'IMEI Write / IM	IEI Check', and click 'IM	EI SVC & Repair Option'	
Set System Set System Configuration	em Configuration	X	
[Process] [Master] [Slave] Calib SMD F/T Image: Calibration Image: Calibration Calibration 2ND Image: Calibration Image: Calibration Calibration 2ND Image: Calibration Image: Calibration Final Auto 2ND Image: Calibration Image: Calibration Final Manual Image: Calibration Image: Calibration IMEI Check Image: Calibration Image: Calibration MDL Rework Image: Calibration Image: Calibration MDL Rework Image: Calibration Image: Calibration ML Rework Image: Calibration Image: Calibration MUL Rework Image: Calibration Image: Calibration WLAN Image: Calibration Image: Calibration Image: Calibration WLAN Image: Calibration	Aration CAL Cycle: on every 20 v default CALs bration Mode : FDT 2nd Mode : FDT ily RF Signal by Conduction v Hode : Signaling v Mode : Signaling v RFSM Second PC e ODS ge Felica Cal C Reset Reset 20 v default CALs ine N tine T # of i Startion Devel Adva 20 v 20 v default CALs ine N ine N Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 Startion 0 St	Name LINE(temp) Type 1Person Cell ▼ IV Smart Cloud Cell Phone 1 ▼ Number f UI 1 Number 1 Signal Loss Config.	
IMEI SVC && Repair Option		22	
FTR N/A	Rework	☐ Korean SVC Write	
SVC User Ticket No 👻	SELA MIAMI	🔲 Local FOTA Check	
	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		2
		OK CANCEL	
		100100 1 2	

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Set System Co	Test Condition	System Cont	ìa.		
[Process] [Master] [Slave	Calibration	Language	English		Model
SMD F/T	Real CAL Cycle: on every	HeFeult CALC Line Name			formation
PBA F/T F			LINE(temp)		ardware
Calibration 2ND 🔲 🔲	Calibration Mode : FDT	Line Type	1Person Cell		Config
Final Auto	CAL2nd Mode : FDT		Smart Cloud C	Cell	gnal Loss
Final Manual	Final	# of Phone	1		Config.
IMEI Write	Supply RF Signal by Cond	duction Start Number	r 1		
IMEI Check 🔽 🗖 SVC Board		Start Numbe	r		alibration
MDL Rework	Reset Loss Correction	n Count of Jig	1		$ \rightarrow $
IMEI Read	Test Mode : Signaling	IP Address	10.244.246.1	.65	Config.
STA Write F		SKD Mode			$ \rightarrow$
STA Reset	WLAN	MultiSharin			ALSTS alloration
WLAN C C	Test Mode : WLan	Developer M	Aode Separating(ADS)		
	_IMEI		Separating(ADS)		Samag
WLAN	Use RFSM Use Second PC	C C Peration Co	ndition		ndBand
Power Off-On before WLAN	Save ODS	C Operat			igine Freq.
	Merge Felica Cal	Condit	ion Se	eLog 🦳 🦳	
Merge 2G3G Block Rad.					
Merge 2030 Block Rad.	OQC Reset IBI Reset				ОК
Process Order	IBI Reset	IME	SVC&Repair Opt	ion (ок
Process Order	o' are Componer	IME		ion (ок
Click 'Port Setting Click 'Controller Type, 10 Bus	o' are Componer Type, Port Setting	IME		ion	ок
Process Order	D' are Componer Type, Port Setting ISTS Sharing Controller	nt Configurat	ion PBA F/T Function	ion	ок
Click 'Port Setting Hardw Controller Type, 10 Bus Phone Count	D' are Componer Type, Port Setting ISTS Sharing Controller	nt Configurat	ION PBA F/T Function Test JIg	Port Setting-	ок
Process Order	BI Reset	nt Configurat	PBA F/T Function Test Ja		ок
Process Order	IBI Reset	DBMS Server HOME(GUMI) Type Outside-Socket	PBA F/T Function Test JIg NI-DAQ Power	Port Setting-	ок
Process Order	IBI Reset	DBMS Server HOME(GUMI) Type Outside-Socket	PBA F/T Function Test JIg NI-DAQ Power Detector	Rort Setting Port Setting Port Setting	ок
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Process Order	IBI Reset	DBMS Server HOME(GUML) Type Outside-Socket Barcode Reader	PBA F/T Function Test JIg NI-DAQ Power Detector HDMI JIG	Rort Setting Port Setting Port Setting	ок
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Process Order	IBI Reset	DBMS Server HOME(GUMI) Type Outside-Socket Barcode Reader Type N/A L/F Type Serial COM Port Setting	PBA F/T Function Test JIg NI-DAQ Power Detector HDMI JIG SMD F/T Type	Port Setting Port Setting Port Setting Port Setting	ок
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Process Order	IBI Reset	DBMS Server HOME(GUMI) Type Outside-Socket Barcode Reader Type N/A I/F Type Serial COM Port Setting MES PN Sender Type N/A	PBA F/T Function Test JIg NI-DAQ Power Detector HDMI JIG SMD F/T Type	Port Setting Port Setting Port Setting Port Setting	ок
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Process Order	IBI Reset	DBMS Server HOME(GUMI) Type Outside-Socket Barcode Reader Type N/A I/F Type Serial COM Port Setting MES PN Sender Type N/A	PBA F/T Function Test JIg NI-DAQ Power Detector HDMI JIG SMD F/T Type	Port Setting Port Setting Port Setting Port Setting	ок
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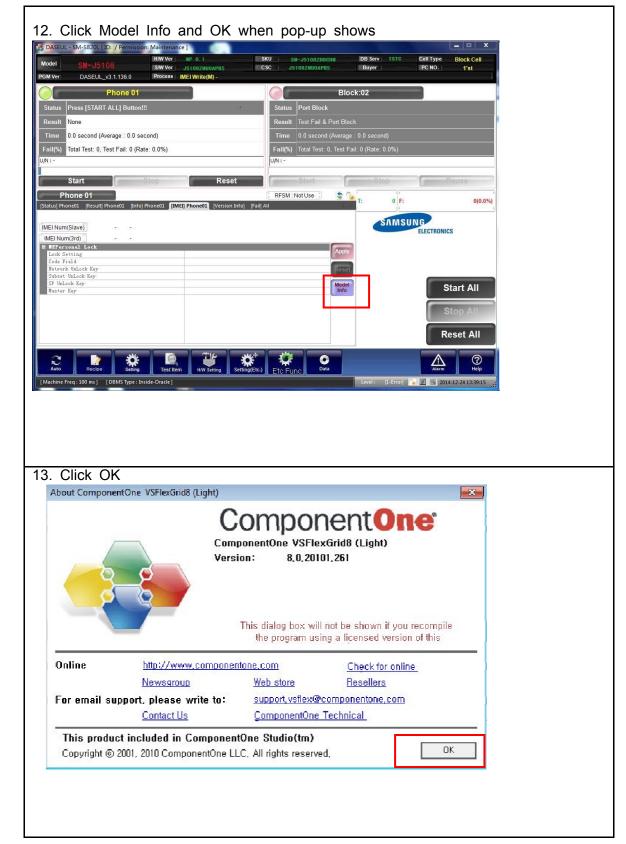
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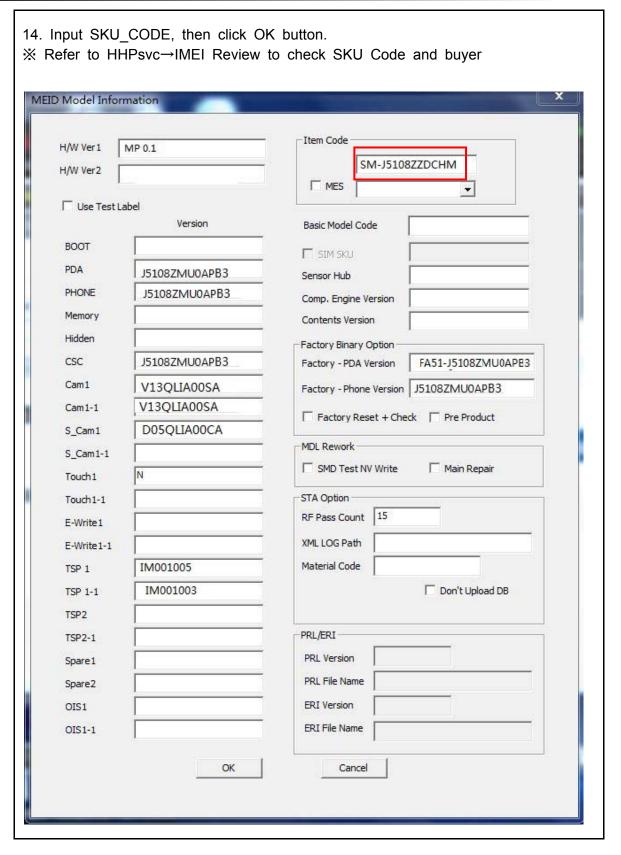
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[Process] [Master] [Slave] SMD F/T	17	Set	Syst	tem C	Configu	uration					X	
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Calbration Calbration Mode : Dynamic Final Auto Calbration Mode : Dynamic Final Manual Calbration Mode : Dynamic IMEI Process IMEI Supply RF Signal by Conduction IMEI Conduction IMEI Calbration Mode : Signaling Developer Mode IMEI Use RFSM Use Second PC Save ODS Operation Condition Operation Condition Ope	Test Process	Set Set System		tem C ation Dialog. at Condition — albration —		Sy	-	English 💌	3		del	
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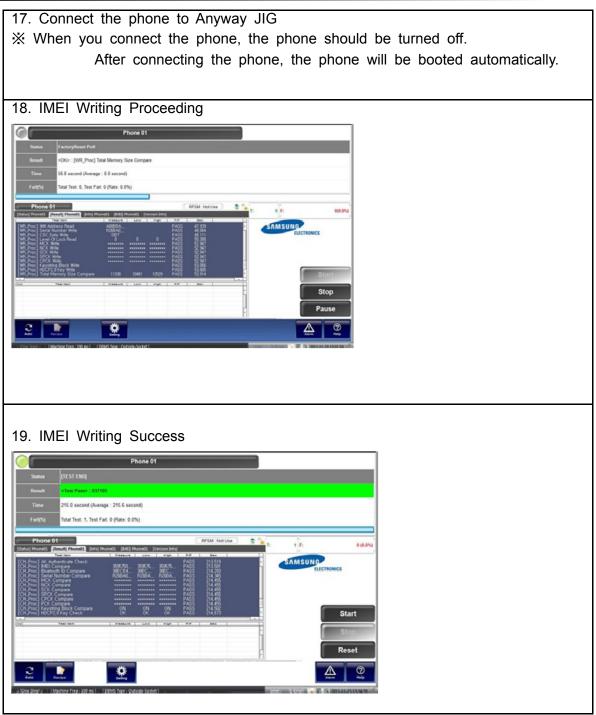




DASEUL - SM-N910F x Model SN-J5108 MW Ver J31027W0A785 Disc Cell Model SN-J5108 MW Ver J31027W0A785 Disc Cell Disc Cell Nodel SN-J5108 MW Ver J31027W0A785 Disc Cell Disc Cell Disc Cell PSM Ver DASEUL_C Status Please Exit & Restart The Program. ID Check Status Please Exit & Restart The Program. ID Check ID Check ID Check Time 0.0 second (Average : 0.0 second) ERISM: Not Use : Image: Cell Test: 0, Test Fail: 0 (Rate: 0.0%) Image: Cell Test: 0, Test Fail: 0 (Rate: 0.0%) UNX:- Phone 01 Image: Cell Test: 0, Test Fail: 0 (Rate: 0.0%) Image: Cell Test: 0, Test Fail: 0 (Rate: 0.0%) Image: Cell Test: 0, Test Fail: 0 (Rate: 0.0%) UNX:- Image: Cell Test: 0, Test Fail: 0 (Rate: 0.0%) Image: Cell Test: 0, Test Fail: 0 (Rate: 0.0%) Image: Cell Test: 0, Test Fail: 0 (Rate: 0.0%)
Phone 01 ID Check 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: -
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Fail(%) Total Test: 0, Test Fail: 0 (Rate: 0.0%) U/N : -
U/N : - Phone 01 Statusj Phone01 [Info] Phone01 [Version Info] [Fall] All T: 0 F: 0(0.0%)
[Status] Phone01 [Result] Phone01 [Info] Phone01 [Version Info] [Fail] All
SAMSONO
IMEI Num(Slave) SN Num ILLCHONCS
Lock Setting Code Code Field Network UnJock Key
Subset UnLock Key SP UnLock Key Model
Stop
Reset
Auto Rector Setting Text Rem INV Setting Setting(Etc.)
: (One Step):: [Machine Freq: 100 ms] [DBMS Type : Outside-WebSVC] Level: [1-Error] 🍡 🖉 📧 2014-10-2219-221-93
16. Click Start ALL
DASEUL - SM-S820L [1D: / Permission: Maintenance]
Model SM-J5108 SMV er J5108/JSW0AP85 CSC J5108/JSW0AP85 Buyer PC NO. 1'st PGM Ver DASEUL_v3.1.136.0 Process IMEL Write(M) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
Phone 01 Block:02
Status Press [START ALL] Button!!! Status Port Block Result None Result Test Fail & Port Block
Time 0.0 second (Average : 0.0 second) Time 0.0 second (Average : 0.0 second)
Fail(%) Total Test: 0, Test Fail: 0 (Rate: 0.0%) UN: - UN: - UN: - UN: -
Start Stop Pause
Phone 01 [RFSM:Not Use] C FFSM:Not Use] C FFSM:Not Use] C FFSM:Not Use] C FF: 0(0.0%)
IMEI Num(Slave) STAMSUNG
MEINum(3rd)
Code Field Network UnLock Key
Subast BuLack Key SP Valack Key Model Info Start All
Stop All
Reset All
Auto Recipe Setting Test Item HW Setting Setting(Etc.) Etc FUNC Data
[Machine Freq: 100 ms] [DBMS Type : Inside-Orade]

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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-J510FN_OPEN_CALIBRATION_Ver_3.1.131.0.CAB)
 - * It is required to use the latest program.
 - SM-J510FN Mobile Phone
 - R&S CMW500
 - E3632A Power Supply
 - JIG BOX (GH81-11888A)
 - Adapter (GH81-11888K)

- GPIB Cable (2ea)
- IF Cable (GH81-10952A)
- UART Serial Cable
- 1.35Φ RF Cable (GH81-11962G 1ea)

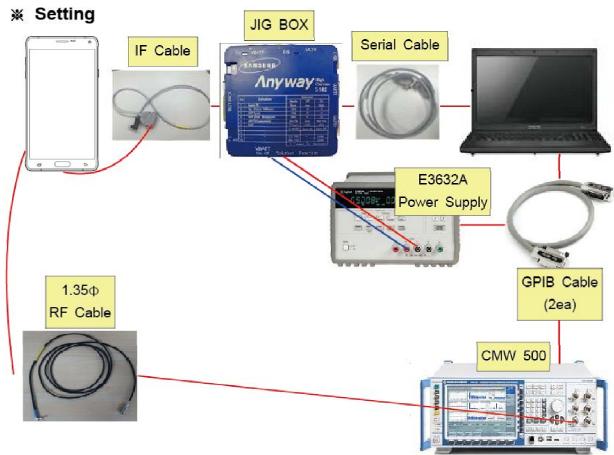
• Table of test cables

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

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6-3-2. RF Calibration Program

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

DASEUL_CAL_ALL_Runtime_3.1.188.0_r00362.CAB

DASEUL_Launcher_v4.0.0.exe

- SM-J5108_OPEN_CALIBRATION_Ver_3.1.180.4.CAB
- 2. Check the 'Calibration' menu, and select 'Extract & Run'.

BASEUL Launch	ter Ver 3.0.29		×
< Launcher Statu	s >		
No. Processin	g	5	Status
1 ::: Start I	Normal Mode :::	(Complete
Select Extract P	rocess		
📝 Runtime	DASEUL_Runtime_Ver_3	3.1.181.0.CAB	
SMD F/T			
Calibration	r00337 SM-J5108_OPE	N_CALIBRATION_Ver	_3.1.180.1TJ1!
CAL 2nd			
🗌 Final Auto			
Final 2nd			
IMEI			
GPS			
BT			
	Le contra de la co		
		Extract & Rur	Close

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

lect The Sequence					
SMD F/T	: C:\DIST\DASEL	I.			
					-
CAL				die die	
CAL2nd					
 J开					. 53
查找范围(I):	SM-J5108 0	PEN_CALIBRATION_Ver	3.1.18 - (=	1	-
	28				хДжа
最近访问的扩	28	_OPEN_CALIBRATIO			х Джі 16/2/19 8:37
最近访问的的 置	28				
	28				
「二」 東面	28				
「二」 東面	28				

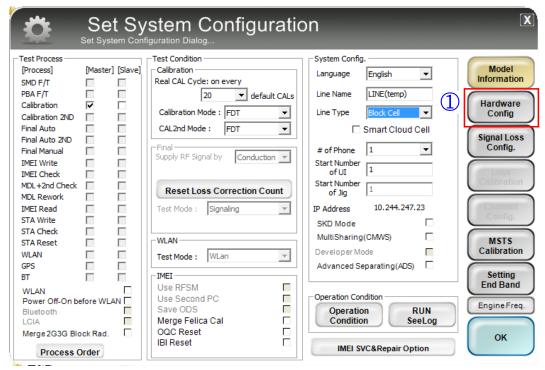


4. Change the Line Type to 'Block Cell' and disable 'Smart Cloud Cell'.

		on	X
Test Process [Master] [Slave] SMD F/T □ PBA F/T □ Calibration ✓ Calibration 2ND □ Final Auto □ Final Auto 2ND □ Final Manual □ IMEI Oheck □ MDL +2nd Check □ MDL Rework □ IMEI Read □ STA Write □ STA Check □ WLAN □ Power Off-On before WLAN □ Bluetooth □ LCIA □ Merge 2G3G Block Rad. □	Test Condition Calibration Real CAL Cycle: on every 20 default CALs Calibration Mode : FDT CAL 2nd Mode : FDT Final Supply RF Signal by Conduction Reset Loss Correction Count Test Mode : Signaling WLAN Test Mode : WLan IMEI Use RFSM 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 # of Phone 1 Start Number 1 Start Number 1 Start Number 1 Start Number 1 IP Address 10.244.247.23 SKD Mode MultiSharing(CMWS) Developer Mode Advanced Separating(ADS) Operation Condition Operation Condition RUN SeeLog IMEL SVC&Repair Option	Model Information Hardware Config Signal Loss Config. Calibration Config. MSTS Calibration Setting End Band Engine Freq. OK



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)



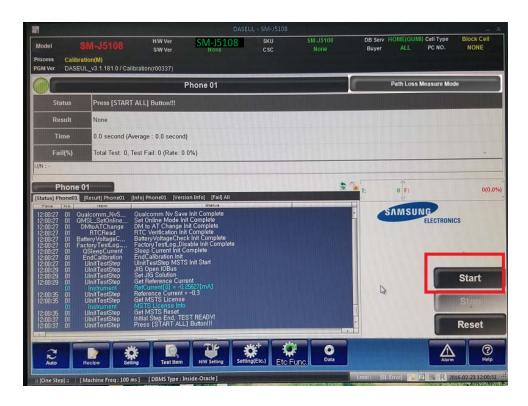


	Ware Component Configuration Bus Type, Port Setting MSTS Sharing Controller DBMS Server HOME(GUMI) PBA F/T Function Port Setting P
I/F - 1 Type Serial COM I/F - 2 Type N/A Port Setting	Control Type N/A I/F Type Serial COM Terminal Port Setting Torminal Po
IF Jig Type AnyWayJig 💌 Multi Jig Cable Type UART Line 💌	Switch Box Port Setting I/F I/F I/F Robot / ShieldBox I/F I/F I/F Control Type N/A I/F I/F
MSTS	T/F Type Serial COM ▼ 3 Port Setting ME Typ E3632A ▼
I/F Type GPIB Port Setting	I/F Type GPIB Port Setting I/F Type Serial COM I/F Type Serial COM Port Setting Port Setting Port Setting
	5 SAVE Cancel



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

Set Sy Set System Conf	stem Configuratio	วท	X
Test Process [Process] [Master] [Slave] SMD F/T PBA F/T PBA F/T Calibration Calibration 2ND Final Auto Final Auto 2ND Final Auto 2ND IMEI Check Final Auto 2ND MEI Check Final STA Check STA Reset STA Reset WLAN Final STA Check Buetooth Final State 1 LCIA Final State 1 Merge 2G3G Block Rad. Final State 1	Test Condition Calibration Real CAL Cyde: on every 20 default CALs Calibration Mode : FDT CAL2nd Mode : FDT Final Supply RF Signal by Supply RF Signal by Conduction Reset Loss Correction Count Test Mode : Signaling WLAN Test Mode : WLan IMEI Use RFSM Gave ODS Merge Felica Cal OQC Reset IBI Reset III Reset	System Config. Language English Line Name LINE(temp) Line Type Block Cell Smart Cloud Cell # of Phone 1 Start Number 1 Developer Number 1 Developer Mode Advanced Separating (ADS) Operation Condition Operation Condition IMEL SVC&Repair Option	Model Information Hardware Config Signal Loss Config. Signal Config. Signal Config. Si



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