RSA Series ROM recovery instruction(FULL recovery).

Read thoroughly before you begin, there are timing sensitive procedures to follow. Nothing is too dangerous here. Afterall, this is how to recover a bricked device. So It doesn't matter if your device get bricked while doing this.

1. Install MediaTek VCOM driver.

Please Google search how to install Mediatek Vcom or preloader driver.

Basically, it's all the same, adding VCOM drivers as legacy hardware. **If any instruction requires connecting the device**, just <u>skip it</u>. Your windows will automatically recognize the device when we are actually connecting to it. It does just make sure the driver is already installed in your Windows driver packages.

- 2. Download the beta firmware folder and Tools.zip file.
 - M8.Q5.1.0.1.08171943_ENG
 - SN_Write_Tool_v1.1728.00
 - SP_Flash_Tool_v5.1728_Win
- 3. Go to SP_Flash_Tool_v5.1728_WIN and run 'flash_tool.exe'

File Options Window Help Welcome Format Download Readback Memory Test Download Stop Download-Agent I7\SP_Flash_Tool_v5.1728_Win\MTK_AllInOne_DA.bin Choose Scatter-loading File C:\Users\enter\Desktop\RS10105 Update 20170817* Authentication File Download Only Name Begin Address End Address Region preloader 0x00000000000000000000000000000000000	🞽 Smart Phone Flasl	h Tool(Runtime Tra	ce Mode)		—	\times
MT6753 Download -Agent L7\SP_Flash_Tool_v5.1728_Win\MTK_AllInOne_DA.bin Choose Scatter-loading File C:\Users\enter\Desktop\RS10105 Update 20170817* Choose Authentication File Download Only Name Begin Address End Address Region preloader 0x000000000000000000000000002759b EMMC BOOT 1	ile Options Window	w Help				
MT6753 Download-Agent L7\SP_Flash_Tool_v5.1728_Win\MTK_AllInOne_DA.bin choose Scatter-loading File C:\Users\enter\Desktop\RS10105 Update 20170817* choose Authentication File in choose Download Only in choose Name Begin Address End Address Region Image: Preloader 0x00000000000000000000000000000000000		Welcome Format	Download R	eadback Memory Test	t	
MT6753 S are provided in the pro	DM	Download Stop				
Download Only • Image: Constraint of the second	MT6753	-				
✓ Name Begin Address End Address Region ^ ✓ preloader 0x00000000000000000000000000000000000					Y ☐ choose	e
	_	Name Image: preloader 0x Image: preloader 0x	000000000000000000000000000000000000000	0 0x00000000002759b	EMMC BOOT 1 FMMC USFR	* *
0 B/s 0 Bytes IMM (ligh Speed 0:00 USB: DA Download All(high speed,auto det		0 B/s 0 Bytes	MM (ligh Speed	0:00 USB: DA Download	d All(high speed,au	to detect

4. Select Download-Agent as **'MTK_AllInOne_DA.bin'** in the 'SP_Flash_Tool_v5.1728_WIN' Folder. You need to do this even if the path is already seemed to be set.

📓 Smart Phone Flash	Tool(R	untime Trace Mode)	- 🗆 ×
📔 Open Download A	Agent F	File	×
$\leftarrow \rightarrow \checkmark \uparrow$	« RS	10 > SP_Flash_Tool_v5.1 >	♥ ♥ SP_Flash_Tool_v5.1728_Win 검 ♥
구성 • 새 폴더			· · · · · · · · · · · · · · · · · · ·
📔 문서	* ^	이름	수정한 날짜 유
🔚 사진	*	codecs	2017-07-28 오후 6:28 표
💄내 PC	- 64	📕 imageformats	2017-07-28 오후 6:28 표
🔈 다운로드		📕 sqldrivers	2017-07-28 오후 6:28 『
■ 동영상		DA_PL.bin	2017-07-19 오후 1:50 E
▲ 8888		DA_PL_CRYPTO20.bin	2017-07-19 오후 1:50 E
		DA_SWSEC.bin	2017-07-19 오후 1:50 E
늘 바탕 화면		DA_SWSEC_CRYPTO20.bin	2017-07-19 오후 1:50 E
🔚 사진		MTK_AllInOne_DA.bin	2017-07-19 오후 1:50 E
🜗 음악		🥵 Official Website	유형: BIN 파일
👟 Windows (C:)			크기: 7.75MB
	~	<	수정한 날짜: 2017-07-19 오후 1:50 >
	파일	이름(N): MTK_AllInOne_DA.bin	✓ Bin File (*.bin)
			열기(O) 취소

5. Select Scatter-loading File as 'MT6753_Android_scatter.txt' in the '1024 600 Recovery Kit

EU' Folder. You need to do this even if the path is already seemed to be set.

9		×
« RS	10 > M8.Q5.1.0.1.08171943 v 🖸	M8.Q5.1.0.1.08171943_ENG 검색 🔎
ł		i≣ · □∎ (?)
* ^	이름	수정한 날짜 유
*	android-info.txt	2017-08-17 오후 8:01 - 특
- 64	installed-files.txt	2017-08-17 오후 8:01 🖣
	MT6753_Android_scatter.txt	2017-08-17 오후 8:01 - 트
	ota_scatter.txt	2017-08-17 오후 8:01 🧧
	ota_update_list.txt	2017-08-17 오후 8:01 👎
:)	1	>
·		,
파일	이름(N): MT6753_Android_scatter.txt ~	Map File (*.txt)
		열기(O) 취소
	 RS * * * * * * * 	

6. **[IMPORTANT]** Choose 'Format all + download' from the drop down menu.

鬙 Smart Phone Fl	ash Tool(Run	time Trace	Mode)			_		×
File Options Wind	low Help							
	Welcome	Format	Download	Readback	Memory Test	:		
вм	↓ Download	© Stop						
MT6753	Download	-			in\MTK_AllInOne		choose	
	Authentica						choose	
	Download Format All Firmware	+ Downloa	▪ d gin Address	En	d Address	Regio	n ^	
	Download				00000002759b 000000880533	EMMC BC	OOT 1 SFR	
	0 B/s 0	Bytes	: MM(ligh Spee	c 0:00 US	SB: DA Download	d All(high sp	eed,auto	o detect)
	No.	11.			A STR	t A	19	. J.

And leave like this for now. Do not close it, but leave it minimized.

- 7. Go to your car with your laptop and Male-to-Male USB cable ready. Once you unlock your door using remote, the device already has begun booting. Start your car or if you think your battery is fine start only the radio, then you will be able to see the device screen. Let it boot until you see the main screen.
- 8. Once you think the booting is complete, go ahead and connect USB cable to the device's USB port.

Nothing will happen. That's normal. <u>The device's USB is getting activated</u> momentarily while booting. Just stay connected for the both end of USB cable.

9. Go to your Windows control panel, and run up 'the device manager'. Leave it open.

Device Manager			
ile Action View Help			
	1 10. 40		
• •	LT IX		
✓ ▲ Tim-SurfacePro2			
> 🗸 Audio inputs and outp	its		
> 🗃 Batteries			
> 🚯 Bluetooth			
> Computer			
> Disk drives			
> III Display adapters			
> 🎽 Firmware			
> 🖓 Human Interface Devic	5		
> C IDE ATA/ATAPI control	ers		
> 📆 Imaging devices			
Keyboards			
- HID Keyboard Devi			
> 🕴 Mice and other poir	Update Driver Software		
> 🛄 Monitors	Uninstall		
> 🧔 Network adapters			
> Print queues	Scan for hardware changes		
> Processors	Properties		
> 🦉 Security devices 📃			
> 🖾 Sensors			
> Software devices			
> 💐 Sound, video and gam	controllers		
> G Storage controllers			
> System devices			
> 🏺 Universal Serial Bus co	trollers		

10. Go to 'Realsun Setting' app in the device, and 'Restart the system', 'Yes'. **The USB must be connected, and you need watch the device manager in your windows!**



If your device is bricked, then disconnect the main connector, and plug the main connector back, this is to induce the bootloader to go to the download mode.

11. Once the screen went off and even before the initial warning message with the grey B8 image appears, you will hear the USB device connection sound. If you installed VCOM driver correctly, MediaTek Preloader USB VCOM Port, will show up for two seconds and will dissapear. Then you will hear the USB device disconnection sound soon. Then again you will hear the USB connection sound again, and 'Mobile device will appear on the device manager, and it will add Android ADB driver by itself. Let it proceed. Important thing is to see if MediaTek Preloader USB VCOM Port was active for two seconds. If you saw something else than the word 'Preloader', then you need to install the driver again from the first.



12. If you think you saw **Preloader port was active** and there was **no exclamation mark** at the device manager, **you are ready**. Let the device boot up. And bring back 'Flash_tool.exe' that you kept minimized before.

Download Stop		Nelcome	Format	Download	Readback	Memory Test		
Download Stop Download-Agent [7]SP.Flash_Tool_v5.1728_Win\MTK_AllInOne_DA.bin Inchoose Scatter-loading File C:\Users\enter\Desktop\RS10105 Update 20170817.v1 Inchoose Authentication File Image: Comparison of the state of the st		Welcome	Tormac	Dominouu	Redubber	Hemory reac		
Download-Agent I7\SP_Flash_Tool_v5.1728_Win\MTK_AllInOne_DA.bin Choose Scatter-loading File C:\Users\enter\Desktop\RS10105 Update 20170617* Choose Authentication File Download Only T Name Begin Address End Address Region preloader 0:x000000000000000000000000000027595 EMMC BOOT 1 TERMS 0:x000000000000000000000000000027595 EMMC BOOT 1		+						
Scatter-loading File C:\Users\enter\Desktop\RS10105 Update 20170817\- achoose Authentication File Download Only Name Begin Address End Address Region preloader 0x00000000000000000000000027595 EMMC BOOT 1 Preloader 0x00000000000000000000000000000000000		Download	Stop					
Scatter-loading File C:\Users\enter\Desktop\RS10105 Update 20170817\- achoose Authentication File Download Only Name Begin Address End Address Region preloader 0x00000000000000000000000027595 EMMC BOOT 1 Preloader 0x00000000000000000000000000000000000								- 1
Authentication File Download Only Name Begin Address End Address Region preloader 0xc000000000000000 0xc00000000027595 EMMC BOOT 1 preloader 0xc00000000000000000000000000000000000	53	Download-	Agent	L7\SP_Flash_Too	ol_v5.1728_Wir	n\MTK_AllInOne_	DA.bin	cnoose
Download Only Name Begin Address End Address Region preloader 0xc000000000000 0xc0000000027595 EMMC BOOT 1 preloader 0xc0000000000000 0xc0000000000027595 EMMC BOOT 1		Scatter-loa	ding File	C:\Users\enter\	Desktop\RS101	05 Update 2017	0817\-	choose
Download Only Image: Control of the second sec								
Name Begin Address End Address Region preloader 0x0000000000000000 0x000000002759b EMMC BOOT 1 Intel State 1000000000000000000000000000000000000		Authentica	tion File				~	choose
Name Begin Address End Address Region preloader 0x0000000000000 0x0000000002759b EMMC BOOT 1 TFAVS 0x00000000000000000000000000000000000		Download	Only	-				
preloader 0x00000000000000 0x000000002759b EMMC BOOT 1								
TEMS 0x00000000880000 0x0000000880533 EMMC USER								
		/ pre	loader 0x0	000000000000000000000000000000000000000	0000 0x00000	0000002759b	MMC B	OOT 1
			VI.5 UX	IAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	INDER DECEMBER			>

13. [Important]Go to 'Realsun Setting' app in the device again, and choose 'Restart the system'. Do not press 'Yes' yet. // If you bricked your device, this is the step that you disconnect the main connector.



Before press 'Download', make sure it's 'Format All+Download'. Press 'Download'.
 Nothing will happen. It's normal.



📓 Smart Phone Fla	sh Tool(Runtime Tr	ace Mode)	**************************************	NE MARSIN CARDA		X
File Options Windo	•				_	
The Options Windo	Welcome Forma	t Download	Readback	Manaan Taab		
вм		L Download	REAUDACK	Memory Test		
	Download Stop					
МТ6753	Download-Agent	L7\SP_Flash_Tool_	v5.1728_Win	n\MTK_AllInOne	DA.bin 🖹 choo	se
	Scatter-loading File	C:\Users\enter\De	sktop\RS101	05 Update 2017	70817\ <mark> -</mark> 😑 choo	se
	Authentication File				🗠 🖻 choo	se
	Format All + Down	lload [_]				
	Name	Begin Address		Address	Region	^
1 200 C	✓ preloader 0)x000000000000000000000000000000000000	00 0x00000	0000002759b	EMMC BOOT 1	~
	<				>	
			0.00			
21. 22	0 B/s 0 Bytes	MM(ligh Speed	0:00 USE	B: DA Download	d All(high speed,a	uto detect)
	Contract of the second s	240-220-24146				

- 15. Now quickly click 'Yes' on the device! It will reboot. If you bricked your device, this is the timing to reconnect the main connector.
- 16. *The device screen will be black*, you will **hear the USB connection sound**, and there will be changes in your 'Flash tool screen'. **It should be formatting and then downloading like below. Will take about 5 min to flash the firmware.** Leave it until it completes.

	Welcome	Format	Download	Readback	Memory Test		
iM	Download	O Stop					
MT6753	Download-	Agent	0817\SP_Flash_	Tool_v5.1728_	_Win\MTK_AllInO	ne_DA.bin	choose
	Scatter-loa	ding File	C:\Users\enter\I	Desktop\RS101	105 Update 2017	0817\M8.	choose
	Authentica	tion File				<u> </u>	choose
	Format All	+ Downloa	ad -				
Chip Info		ame	Begin Addres	s End	d Address	Region	Lo
Chip Name:	prel	oader 0x0	000000000000	0000 0x0000	00000002759b	MMC BOOT	1 C:¥
Chin Version:	<						>
EMMC Flash	12.99M/s 51	L.82M		Download Fla	ash 2% ediaTek PreLoade		

17. If thing are alright, you will see 'MediaTek PreLoader USB VCOM Port' is present and stay connected until the flash is complete. If the device didn't stay black out, and there is no progress in 'Flash tool', and the VCOM Port is not presented in the device





18. Once complete you will see this in your laptop.



19. The device would stay in black out. Reset the device by pushing a sharp material into the reset hole on the front left side of your device's screen. 3 seconds of push will be enough. Then device will start up as normal. Booting will take more time than usual, since we just flashed the whole ROM. Wait until it finishes booting. Once, booting is complete, go to 'App picker'(six dots in a circle on the middle right of the screen) and go to 'Realsun Setting' and get ready to reboot. Do not press 'Yes' to reboot, until you are asked to do so.

20. Now, you have to write **NVRAM for mobile modem and Bluetooth**. On your laptop, close 'Flash tool' and go to 'SN_Write_Tool_v1.1728.00' folder, and run 'SN Writer'. USB cable should have to stay connected

ComPort:	USB VCOM	•	Total:	
irget Type:	Smart Phone	•	Pass:	
:	System Config		Fail:	
Quit	1			Start

21. Click 'System Config', Change nothing, but it should look like below.

Write Option	Header Option	
✓ Barcode	Barc Header:	□ 0n/0
□ BT Address	BT Header:	□
🗆 Wifi Address	,	
🗆 Ethernet Mac Address	Wifi Header:	□ 0n/0
DRMkey MCID	IMEI_1 Header:	🗆 On/0
□ meid □ esn	IMEI_2 Header:	□ 0n/0
	IMEI_3 Header:	□ 0n/0
IMEI Option	IMEI_4 Header:	□ 0n/0
🗆 Dual IMEI	Serial Header:	□ 0n/0
	Ethernet Header:	□ 0n/0
Three IMEI Four IMEI	MCID Header:	□ 0n/0
CurTemperature	MEID:	□ 0n/0
20.3 ° C	MSN:	□ 0n/0
DataBase File	Load Modem DB fror	n DUT
CP_MT6735_S00_MOLY_LR	9_W1444_MD_LWTG_MP_V84	_1_lwg_n MD1_l
		MD2_I
8.00₩database files₩APDB	MT6735_S01_alps-mp-m0.mp1	
,		
og Dir C:#SNWriter_LOG#		
	Save	10

'database' folder, which is a sub-folder of 'SN_Write_Tool_v1.1728.00' folder, and click

'open'.

▼ Barcode ▼ IMEI		Barc Header:		□ On/Of
BT Address		BT Header:		□ On/Of
Wifi Address	3			
Ethernet Ma	c Address	Wifi Header:		□ 0n/01
DRMkey MC	ID	IMEI_1 Header:		□ On/Ot
Select Moder	n_1 database file.			>
찾는 위치(I):	database f	files	- 🔶 🔁	📸 🎟 -
BPLGUInf		np-m0.mp1_W16.37 P_MT6735_S00_MOLY_L	R9_W1444_MD_	LWTG_MP_V84_1
BPLGUIN			R9_W1444_MD_	LWTG_MP_V84_1
< BPLGUIN < 파일 이름(N):	oCustomAppSrcF			LWTG_MP_V84_1
<	oCustomAppSrcF	_MT6735_S00_MOLY_L		

- 24. Press Start and you will see this.

Farget Type:	Scan Data	Data: rs0108170500030		Header:
	IMEI_1:			-
Quit	E	Cancel	ОК	

Enter the pre-assigned numbers for BARCODE and IMEI No. from the sticker outside of your shipping package box, or the backside of your device. If you can't find your 'rs...' Serial number and IMEI no., *let me know that I will assign you the new one*. DO NOT PRESS 'OK' YET.

[Important] Please, do not choose both Barcode and IMEI number without any discussion with us, because devices with the same Barcode and IMEI in the same continent will cause conflict!

- 25. When you entered the both Barcode and IMEI_1 with your assigned number, press OK in your laptop, and immediately click 'Yes' on the device to reboot. SN Writer will wait only 30 seconds to the device's pre-loader VCOM ports to open.
- 26. If everything goes smoothly, the progress will look like the followings.



/pe:	Data:		Header:
В	arcode: rs0108170500031		
	IMEI_1: 863888030108275		
Quit	Cancel	ОК	
QUII			
e succes	sfully!		

Press cancel and close the program, disconnect USB cables. Meanwhile, device will look like this, but it's normal.



Leave it for 5 minutes and it will restart to boot normal or push the reset button. *If* the device doesn't boot correctly, disconnect & reconnect the main cable to the device, if possible. If not, just leave the car and lock it, so that the power will be shutdown automatically after 5~ 10 minutes after the car is locked. Then go to the car again, it will boot normally.

If SN Writer returns an error, either you have <u>VCOM Driver issue</u> or <u>you did not select</u> <u>'Format all + Download'</u> but something else <u>while flashing the ROM</u>. Repeat what is necessary.

It's done for firmware recovery.