

Firmware update - APPC-10SLB - Android 8 downgrade to Android 6.0.1

Contents

Installing the RockChip driver	. 2
Reading the serial number	. 3
Performing the upgrade	. 5
Writing the device's serial number	. 7

This instruction is a step-by-step manual on how to downgrade Android 8.1 to 6.0.1 using a Windows 7 or Windows 10 workstation.

Please note that it's very important to follow the exact steps of this manual for a successful update. By no means detach the power supply from the unit while updating the firmware or press any other buttons than described. This could lead to irreversible damage of the device.

It's necessary to use the USB Burning update method and please keep in mind that the flash time may take up to 5 minutes due to the eMMC type used. For a successful update, we advise you to connect the APPC-10SLB to your PC using a micro-USB cable.

Follow the next steps to downgrade Android 8.1 to 6.0.1

The following packages should be downloaded:

- A. APPC-10SLB Android 6.0 firmware: https://drive.google.com/open?id=1U_avYMBnR2hOwpD3NJjdXwts3INzqTob
- B. Android Tool Release (v2.54) Download: <u>https://we.tl/t-xmqurSh9NF</u>
- C. RockChip Driver Assistant 4.5: <u>https://we.tl/t-yeAkIjdmLJ</u>
- D. UpgradeDII Tool v1.35: <u>https://we.tl/t-L59kI4UbD3</u>
- E. WNpctool V1.2.0: <u>https://we.tl/t-h3PMinZAAg</u>



Installing the RockChip driver

Unpack the RockChip Driver Assistant 4.5 and run DriverInstall.exe.

RK Driver Assitant v4.5	Х
Install Driver Uninstall Driver	

With successful installation:

S RK Driver Assitant v4.5	\times
Install Dr Install Dr Install driver ok.	

In case you have older RockChip drivers installed uninstalling the previous version isn't required.



Reading the serial number

Unpack WNpctool_Setup_V1.2.0.0522.zip and run the installation file WNpctool_Setup_V1.2.0.0522.exe. Follow the wizard an set your preferred installation. WNpctool will now start.

Connect the device with pc with the USB-cable while keeping the plus part of the volume control pressed. Keep it pressed and simultaneously turn the device on. If done correctly the red button will turn green and at the bottom of the window "Found one LOADER" will be displayed.

WNpctool V1.2.0		- 0	×
Setting Help			
SN:			
WIFIMAC:			
LANMAC:			
BTMAC:		Read	
IMEI:			
Loader:		Loader import	
	Found and LOADED		
	Found one LOADER		

Go to Setting menu and be sure the option Read is checked. select Mode to open the Mode window and check the select box on the SN tab. Optionally you can check the boxes of the MAC address tabs if you also want to read the MAC addresses on the device.



Mode		×
SN WIFI MAC	LAN MAC BT MAC IMEI	
⊡ select		
Config	0	
() Input/Se	can 🔿 Auto	
SNPrefix:	RKDEV SNSuffix:	
Start:	RKDEV2016081618400	
Current:	RKDEV2016081618400	
End:	RKDEV2016081618400	
count:	1	
	OK Cancel	APPLY

Click OK to apply your changes and go back to the main screen.

Click the "Loader import" button and select the rk3288_loader_v1.06.236.bin file.

LUduel.	C:\Users\Support\Downloads\wnpctool_Setup_v1.2.0.0522	Loader import
	Pass	
$\begin{array}{c} 13:31:52\\ 13:31:53\\ 13:31:53\\ 13:31:53\\ 13:31:56\\ 13:31:56\\ 13:31:56\\ 13:31:56\\ 13:31:56\\ 13:31:57\\ 13:31:57\\ 13:31:57\\ 13:31:57\\ \end{array}$	914Start Writing424Setting loader431Setting loader success431Loading boot408Loading boot success408Writing SN408DEVSN: APPCIODSKPL18B00160448Write SN success448Device reboot450Device reboot success450Elapse 4' 531 seconds	
	Not found rockusb	

Click Read. In the bottom pane the process and status will be displayed.

Keep this program open or copy the device id to an easily retrievable location like notepad.



Performing the upgrade

Unpack the firmware package and/or copy the file update.img to an easily accessible location like the desktop.

Unpack AndroidTool_Release_v2.54.zip and open AndroidTool.exe. The RKDevTool v2.54 will now start. Plug in the USB cable as done with the UpgradeDII Tool; Make sure the device is powered down and press the plus part of the volume control and plug in the micro-USB part of the USB cable that is connected to your pc. Keep it pressed and simultaneously turn the device on. The RKDevTool will show "Found One LOADER Device".

KDe	vToo	ol v2.54				_	
vnlo	ad]	Emage Upgrade	e Firmware Ad	lvanced Function			
#		Address	Name	Path			
1		0x00000000	Loader				
2	◄	0x00000000	Parameter				
3	◄	0x00004000	uboot				
4	◄	0x00006000	trust				
5	◄	0x00008000	Misc				
6		0x0000A000	Resource				
7	◄	0x00012000	Kernel				
8	◄	0x00022000	Boot				
9	•	0x00032000	Recovery				
10		0x0018C000	System				
11		0x00594000	vendor				
12		0x00696000	oem				
.oad	er:		Run	Switch Dev Partition Clear			
		F	ound On	e LUADER Device			

Go to the "Upgrade Firmware" tab and click the Firmware button. Select the update.img file of the firmware package.

🔀 RKDevTool v2.54	4	-	×
Download Image	Upgrade Firmware Advanced Function		
Firmware	Upgrade Switch EraseFlash		
Fw Ver:	8. 1. 00 Loader Ver: 2. 36 Chip Info: RK32		
Firmware:	C:\Users\Support\Desktop\update.img		
	Found One LOADER Device		



Click the Upgrade button to start the upgrade process. In the right pane you can follow the process.

Do not unplug the USB cable or in any way operate the device while the upgrade process is running. The process is complete when the right pane is displaying the following:

KKDevTool v2.54	-
Download Image Upgrade Firmware Advanced Function Firmware Upgrade Switch EraseFlash Fw Ver: 8.1.00 Loader Ver: 2.36 Chip Info: EK32 Firmware: C: \Users\Support\Desktop\update.img	Test Device Start Test Device Success Check Chip Start Check Chip Start Get FlashInfo Start Get FlashInfo Start Prepare IDB Start Prepare IDB Start Lowerformat Device(100%) Download IDB Start Lowerformat Device(100%) Download IDB Success Reset Device Start Reset Device Start Reset Device Start Test Device Success Download Firmware(100%) Download Firmware Success Reset Device Start Reset Device Start
No Devices Found	



Writing the device's serial number

SN	MAC	WIFI	BT	IMEI	All	CUSTOM				
Input () Man	Mode ual	() Auto	⊖ F:	le		arry)ecimal	• Hex	Stat Success:	0	
								Read Clea	SN ar	
								Clea	ar	
								 Cle	ar	
								Cle	ar	

Unpack UpgradeDII Tool v1.35 and run UpgradeDIITool.exe.

On the tab SN be sure the Input Mode is on Manual. Copy the s/n (and optionally MAC) from WNpctool and paste it to the UpgradeDLL tool.

Be sure the APPC-10DSK(P)(L) is turned off. Press the plus part of the volume control and plug in the micro-USB part of the USB cable that is connected to your pc. Keep it pressed and simultaneously turn the device on. The UpgradeDII tool will show "Found one Rockusb device".

Press "Write SN" and the device id (device type + serial number) will be written.

If successful restart the APPC-10SLB. To finalize the upgrade process perform a factory data reset: Settings; System; Reset options; Erase all data (factory reset).

Congratulations, you have now successfully downgraded your APPC-10SLB to Android 6.0.1.

