GTC-Upgrade Guide(EN)-XPI3566 Raspberry PI

V1.1

REVISION HISTORY

Time	Version	Reason of change	Author	Remake
14/07/2023	1.0	Create a document	СМ	
24/07/2023	1.1	Firmware update	СМ	

Driver download link :

https://mega.nz/file/tgFXyCRC#ZsNvsWpkaxmreSemrrsE6OVAvFBa4HTUV

LLmpVPVq6Y

RKDevTool's&FW download link :

https://mega.nz/file/fQVyRKAD#sZxaLTdrAHZnj6OJHBheaQMYOUx5DNF

MDeGvWEH2j6w

1.Hardware preparation :

- Type-c power cable
- USB burning cable
- PC (Take my computer for example: win10)
- XPI3566 RK3566 device



Note: If the computer cannot recognize the USB burning mode, you can

install the driver and try again; If the PC burns normally, the driver

installation can be ignored.

2. Burning tool driver installation :

(1) Download the driver and unzip it, as shown below:

名称 ^	修改日期	类型	大小
ADBDriver	2020-11-10 14:13	文件夹	
🔜 bin	2020-11-10 14:14	文件夹	
Driver	2020-11-10 14:15	文件夹	
Log	2023-6-20 09:37	文件夹	
🔊 config.ini	2014-6-3 15:38	配置设置	1 KI
DriverInstall.exe	2020-11-10 14:15	应用程序	490 KI
Readme.txt	2018-1-31 17:44	文本文档	1 KE

(2) Double-click"DriverInstall.Exe"->Click "驱动安装", as shown below:

ifeff空電 (f) = 昭和 > Driver/	Assitant_v5.1.1		
名称 ^	修改日期	类型	大小
ADBDriver	2020-11-10 14:13	文件夹	
bin	2020-11-10 14:14	文件夹	
Driver	2020-11-10 14:15	文件夹	
Log	2023-6-20 09:37	文件夹	
🛐 config.ini	2014-6-3 15:38	配置设置	1 KB
DriverInstall.exe	2020-11-10 14:15	应用程序	490 KB
Readme.txt	2018-1-31 17:44	文本文档	1 KB



Room 02-04, 10/F, Block A, Building 8, Shenzhen International Innovation Valley, Dashi Road, Nanshan District, Shenzhen, Guangdong, China Emai: <u>support@geniatech.com</u> Tel: (+ 86) 755 86028588

(3) If the installation is successful, click"确定".

	驱动安装	驱动卸载	DriverInstall X
Г			安装驱动成功.

3.Burning steps:

(1) Download and decompress the firmware

version:rk3566-xpi-pi_RCB211030-base_hwV1.1_20230330161930.tar.gz,

Unzip the update.img burning package ; As shown in the picture below:



(2) Go to the RKDevTool_Release folder, open the config.ini file and change Selected=2 to make the tool language displayed in English,then double click to run RKDevTool.exe.

Note: If RKDevTool_Release isn't included in the system package, please skip this step

容	修改日期	类型	大小
bin	2023-3-30 16:19	文件夹	
Language	2023-3-30 16:19	文件夹	
Log	2023-7-4 11:08	文件夹	
] config.cfg	2023-3-30 16:19	CFG 文件	6 KB
] config.ini	2023-3-30 16:19	配置设置	2 KB
] orion-config.cfg	2023-3-30 16:19	CFG 文件	7 KB
] px3se-config.cfg	2023-3-30 16:19	CFG 文件	7 KB
] px30-config.cfg	2023-3-30 16:19	CFG 文件	7 KB
readme.txt	2023-3-30 16:19	文本文档	1 KB
revision.txt	2023-3-30 16:19	文本文档	2 KB
] rk312x-config.cfg	2023-3-30 16:19	CFG 文件	6 KB
] rk356x-config.cfg	2023-3-30 16:19	CFG 文件	6 KB
] rk1808-config.cfg	2023-3-30 16:19	CFG 文件	7 KB
] rk3036-config.cfg	2023-3-30 16:19	CFG 文件	7 KB
] rk3128-config.cfg	2023-3-30 16:19	CFG 文件	7 KB
] rk3128h-config.cfg	2023-3-30 16:19	CFG 文件	7 KB
] rk3229-config.cfg	2023-3-30 16:19	CFG 文件	7 KB
] rk3288-config.cfg	2023-3-30 16:19	CFG 文件	7 KB
] rk3308-config.cfg	2023-3-30 16:19	CFG 文件	6 KB
] rk3326-config.cfg	2023-3-30 16:19	CFG 文件	7 KB
] rk3328-config.cfg	2023-3-30 16:19	CFG 文件	7 KB
] rk3399-config.cfg	2023-3-30 16:19	CFG 文件	7 KB
rk3588-config.cfg	2023-3-30 16:19	CFG 文件	6 KB
KKDevTool.exe	2023-3-30 16:19	应用程序	1,205 KB
RKDevTool_manual_v1.2_cn.pdf	2023-3-30 16:19	PDF 文件	530 KB
RKDevTool_manual_v1.2_en.pdf	2023-3-30 16:19	PDF 文件	448 KB
] rv1126_rv1109_tb-config.cfg	2023-3-30 16:19	CFG 文件	3 KB
] rv1126_rv1109-config.cfg	2023-3-30 16:19	CFG 文件	6 KB
] rv1126_rv1109-config-ab.cfg	2023-3-30 16:19	CFG 文件	7 KB
_ 开发工具使用文档_v1.0.pdf	2023-3-30 16:19	PDF 文件	450 KB

-	
2	[Language]
3	Kinds=2
4	Selected=2
5	LangPath=Language\
6	
7	Lang1File=Chinese.ini
8	Lang1FontName=宋体
9	Lang1FontSize=9
0	
1	Lang2File=English.ini
2	Lang2FontName=Arial
3	Lang2FontSize=9
4	L
5	[System]
6	*自定义MSC, ADB, MTP和UVC设备的VID和PID, 十六进制

wnl	bad I	mage Upgrad	le Firmware Ad	vanced Functio	on		
#		Storage	Address	Name	Path		
1			0x00000000	loader	\rockdev\MiniLoaderAll.bin		
2		290	0x00000000	parameter	\rockdev\parameter. txt	1.1. T	
3			0x00004000	uboot	\rockdev\uboot. img		
1			0x00006000	misc	\rockdev\misc.img		
5			0x00008000	boot	\rockdev\boot.img		
3	~		0x00028000	recovery	\rockdev\recovery.img		
7	Г		0x00068000	backup			
3	~		0x01C78000	oem	\rockdev\oem. img		
3			0x00078000	rootfs	\rockdev\rootfs.img		
10			0x01D18000	userdata	\rockdev\userdata.img		
oa	der:	[Run	Switch	Dev Partition Clear		

an Conistach In

(3) Hold down the upgrade button (on the side of the board - as shown below), connect the PC via both USB burning cables, hold down the upgrade button for 5-10 seconds after power-on, until "Found One LOADER Device" (find a loading device) appears in the tool, see the picture below:

If the tool cannot find the device, reconnect the computer using both ends of the USB burning cable and power on the device while holding the upgrade button for 5-10 seconds. It will prompt "Found One MASKROM Device".







www.geniatech.com

:		Storage	Address	Name	Path	
			0x00000000	loader	\rockdev \MiniLoaderAll. bin	
	•		0x00000000	parameter	\rockdev\parameter.txt	
	•		0x00004000	uboot	\rockdev\uboot.img	
	•		0x00006000	misc	\rockdev\misc.img	
	•		0x00008000	boot	\rockdev\boot.img	
3	~		0x00028000	recovery	\rockdev\recovery.img	
	Г		0x00068000	backup		
3	~		0x01C78000	oem	\rockdev\oem.img	
9	~		0x00078000	rootfs	\rockdev\rootfs.img	
0	•		0x01D18000	userdata	\rockdev\userdata.img	
oade	er:		Run	Switch	Dev Partition Clear	

Note: If the loader mode cannot be entered by pressing the upgrade button, perform the following operations. If the upgrade button can enter the loader mode, the following two methods are ignored. Method 1

After the system is started, the HDMI is displayed normally. Open Terminal on the desktop and go to the command operator window. As shown in the picture below:

Shenzhen Geniatech Inc., Ltd.

www.geniatech.com

Vastebasket

Ele 2dit Tabs Help

✤ In the operation command window, run the following commands:

Hardware connection

sudo su //Enter root permission

reboot bootloader //Enter Loader mode



10



Shenzhen Geniatech Inc., Ltd.

www.geniatech.com



RKDevTool v2.92

Geniatech

#		Storage	Address	Name	Path	
1	~		0x00000000	loader	\rockdev\MiniLoaderAll	. bin
2	~		0x00000000	parameter	\rockdev\parameter. txt	
3	~		0x00004000	uboot	\rockdev\uboot.img	
4	~		0x00006000	misc	\rockdev\misc.img	
5			0x00008000	boot	\rockdev\boot. img	
6	V		0x00028000	recovery	\rockdev\recovery.img	
7	Г		0x00068000	backup		
8			0x01C78000	oem	\rockdev\oem.img	
9			0x00078000	rootfs	\rockdev\rootfs.img	
10	~		0x01D18000	userdata	\rockdev\userdata.img	
.03	der:		Run	Switch	Dev Partition Cle	ear
] Write by Addre	SS	M	

(4) Click "Upgrade Firmware" and click "Firmware" to load the update.img burning package. As follows:



(5) Click "Upgrade". The detailed information about the upgrade is

displayed on the right. After the upgrade is complete, the box

automatically restarts and the interface is displayed normally.

Nownload Image Upgrade Firmware Advanced Function	Test Device Start Test Device Success Check Chip Start Check Chip Success
Fw Ver: 1.0.00 Loader Ver: 1.01 Chip Info: RK3568 Firmware: pi¬pi_RCB211030-base_hwV1.1_20230330161930\rockdev\update.img	Get FlashInfo Start Get FlashInfo Success Prepare IDB Start Download IDB Success Download IDB Success Download Firmware Start Download Firmware (21%)

(DevTool v2.92	-
nload Image Upgrade Firmware Advanced Function Firmware Upgrade Switch Fw Ver: 1.0.00 Loader Ver: 1.01 Chip Info: EK3568 Firmware: pi-pi_BCB211030-base_hwV1.1_20230330161930\rockdev\update.img	Test Device Start Test Device Success Check Chip Start Check Chip Success Get FlashInfo Start Get FlashInfo Success Prepare IDB Start Prepare IDB Success Download IDB Success Download Firmware Start Download Firmware Success

Remarks:

1. If you are upgrading from Android to Linux or from Linux to Android, delete Flash

first.

a. Load update.img, select "Advanced Function", and click "Erase All". The Success

dialog box is displayed.

KKDevTool v2.92	- 🗆 X
Download Image Upgrade Firmware Advanced Function	
2 Fw Ver: 1.0.00 Loader Ver: 1.01 Chip Info: RK3568	
Firmware: pi-pi_RCB211030-base_hwV1.1_20230330161930\rockdev\updatk.img	
Found One LOADER Device 1-4-2 :LOADER ~	

Shenzhen Geniatech Inc., Ltd.

www.geniatech.com

nload Image Vj	pgrade Firmware	Advanced Functior	1		Start to erase sectors, start(UxU), count(Uxe90000) Erasing(100%)
Boot:				Download	Erasing sectors success
Firmware				Unpack	
ReadFlashID	ReadFlashInfo	ReadChipInfo	ReadCapabilit	1. FLASH 2. EMMC 3. SD	
TestDevice	ResetDevice	Go Maskrom	Switch Storage	4. SD1 5. SPINOR 6. SPINAND 7. RAM 8. USB 9. SATA 10. PCIE	
ClearSn	DetectSecure	ExportComLog	t Selected Stor		
ExportImage	EraseLBA	EraseAll	2		
Start:			-		
Count:					

b. After the erasing is complete, power off and restart. The message "Found One

MASKROM Device" is displayed, and then continue to perform Step 5 above to burn

the system.

Geniatech

RKDevTool v2.92	>
Download Image Upgrade Firmware Advanced Function	Start to erase sectors, start(0x0), count(0xe90000) Erasing(100%)
Firmware Upgrade Switch	Erasing sectors success
Fw Ver: 1.0.00 Loader Ver: 1.01 Chip Info: RK3568	
Firmware: pi-pi_RCB211030-base_hwV1.1_20230330161930\rookdev\update.img	

c. If the burning tool RKDevTool.exe can identify the LOADER/MASKROM Device,

Rockusb Device can also be found in Device Manager on PC. If no, check whether the

driver is installed properly or whether the steps are correct.

書 设备管理器	
文件(F) 操作(A) 查看(V) 帮助(H)	
✓ ♣ PC-20200511QFEX	
✓ Glass for rockusb devices	
Rockusb Device	
> 📷 IDE ATA/ATAPI 控制器	
> 🚽 Jungo Connectivity	
> 🗖 处理器	
> 🔜 磁盘驱动器	
> 😪 存储控制器	
> 🚍 打印队列	
> 🛱 端口 (COM 和 LPT)	
> 🔜 计算机	
> 🛄 监视器	
> 🔤 键盘	
> 🕅 人体学输入设备	
> • • • • • • • • • • • • • • • • • • •	