

DC-YM568开源平台(邮票孔核心板)

状态:	新建	开始日期:	2024-09-27
优先级:	普通	计划完成日期:	
指派给:		% 完成:	0%
类别:		预期时间:	0.00 小时
目标版本:		耗时:	0.00 小时
描述			
1727403029300259.png			

#1 - 2024-11-14 19:04 - 研发-王志刚

```
sudo apt-get update

sudo apt-get install repo git-core gitk git-gui gcc-arm-linux-gnueabi\
gcc-aarch64-linux-gnu mtools parted libudev-dev libusb-1.0-0-dev python-linaro-image-tools \
linaro-image-tools gcc-arm-linux-gnueabi\ libssl-dev liblz4-tool genext2fs lib32stdc++6 \
```

```
gcc-aarch64-linux-gnu g+conf autotools-dev libsigsegv2 m4 intltool libdrm-dev curl sed make \
binutils build-essential gcc g++ bash patch gzip bzip2 perl tar cpio python unzip rsync file bc wget \
libncurses5 libqt4-dev libglib2.0-dev libgtk2.0-dev libglade2-dev cvs git mercurial rsync openssh-client \
subversion asciidoc w3m dblatex graphviz python-matplotlib libssl-dev texinfo fakeroot \
libparse-yapp-perl default-jre patchutils swig chrpath diffstat gawk time expect-dev
```

三：SDK下载

2-1): 百度网盘的下载地址

链接：<https://pan.baidu.com/s/1KrkPshLFv2OsDxhiXMhNWg?pwd=1234>

提取码：1234

2-2): 解压

由于 源码包比较大，所以我们采用分卷压缩的方法来打包SDK

2-2-1): 下载完成后先验证一下 MD5 码：

```
e8ea1c1ee134ad715896b8e0de6514b6      ztl_OpenSdk_linux_rk356x_20241119.tar.gz.aa
f5a4e18eab5e5f62bb1e36c753dca57b      ztl_OpenSdk_linux_rk356x_20241119.tar.gz.ab
```

2-2-2): 合并再解压

```
cat      ztl_OpenSdk_linux_rk356x_20241119.tar.gz.a* >  ztl_OpenSdk_linux_rk356x_20241119.tar.gz
mkdir ztl_ym568
tar xvf      ztl_OpenSdk_linux_rk356x_20241119.tar.gz -C      ztl_ym568
```

三：编译

3-1): Ubuntu编译

```
./ztl_rk356x_openSdk.sh -k ????
```

```
./ztl_rk356x_openSdk.s -ub ?output?????ubuntu?????GB_YM568_Ubuntu_****HDMI_LVDS1920x1080.img
```

```
./ztl_rk356x_openSdk -h ????
```

3-2): Debian??

```
./ztl_rk356x_openSdk.sh debian ??????????debian??
```

```
./ztl_rk356x_openSdk.sh -ub ??????????ztl_rk356x_openSdk.sh 132?????????????????????linaro-tools-debian?
```

3-2): Buildroot??

```
./ztl_rk356x_openSdk.sh buildroot ??????????out??
```

```
./ztl_rk356x_openSdk.sh -ub ??????????ztl_rk356x_openSdk.sh 132?????????????????????
```

/***** 安卓系统 *****/

一：SDK下载

链接: https://pan.baidu.com/s/1h2bZYdjKx35EsqLVGTt4_A?pwd=1234 提取码: 1234

1-1): 准备工作

编译 Android 对机器的配置要求较高

64 位 CPU

16GB 物理内存+交换内存

30GB 空闲的磁盘空间用于构建，源码树另外占用大约 25GB, 如果要编译源码则还需要 150GB 的磁盘空间。

RK官方推荐 Ubuntu 14.04 操作系统，不过该系统比较老且不再维护了，所以这里推荐使用 Ubuntu 16.04或18.04，只需要满足<http://source.android.com/source/building.html> 里的软硬件配置即可

1: 安装 OpenJDK 8:

```
sudo apt-get install openjdk-8-jdk
```

2: Ubuntu16.04或18.04 软件包安装：

```
sudo apt-get update
```

```
sudo apt-get install git gnupg flex bison gperf libssl1.2-dev \
```

```
libbsd-java libxgtk3.0-dev squashfs-tools build-essential zip curl \
```

```
libncurses5-dev zlib1g-dev pngcrush schedtool libxml2 libxml2-utils \
```

```
lib32readline-dev gcc-multilib libswitch-perl libssl-dev unzip zip device-tree-compiler \
```

```
liblz4-tool python-pyelftools python3-pyelftools -y
```

4-2): 合并解压 Android SDK

4-2-2): 下载完成后先验证一下 MD5 码

```
md5sum ztl_c56x_11os_202408*
```

4-2-3): 确认无误后，就可以解压

```
cat ztl_c56x_11os_202408.tar.gz.a* > ztl_c56x_11os_202408.tar.gz
```

```
mkdir -p ~/proj/ztl-rk356x-mainboard
```

```
cd ~/proj/ztl-rk356x-mainboard
```

```
tar xvf ztl_c56x_11os_202408.tar.gz
```

1-3): 编译 Android SDK

1-3-1): 整理编译

```
./dingchang/ztl-compile/mybuild-MainSub-3568-lpddr4x.sh -UKAuP
最终生成的整包固件在rockdev/202409**_LVDS_1920_1080_V5_2.img
```

1-3-2): 编译报错汇总

a: 提示u-boot/include/common.h', needed by 'include/config/auto.conf'

解决办法：cd u-boot/

```
make distclean
```

```
/***** 22 *****/
```