

RDK-C Optimization build for Raspberrypi

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Host Setup

Refer the link for host setup details :[Host Setup](#)

Build Setup

Initialization

```
$ repo init -u https://code.rdkcentral.com/r/manifests -m rdkc-nosrc.xml -b rdkc_optimize  
                                     ( or )  
$ repo init -u https://code.rdkcentral.com/r/manifests -m rdkc-extsrc.xml -b rdkc_optimize
```

Download/Sync

```
$ repo sync -j `nproc` --no-clone-bundle --no-tags
```

Environment Setup

RPI3 B+

Environment Setup

```
$ MACHINE=raspberrypi3-rdk-camera source meta-cmf-raspberrypi/setup-environment
```

RPI0

Environment Setup

```
$ MACHINE=raspberrypi0-rdk-camera source meta-cmf-raspberrypi/setup-environment
```

Compilation Flag

Add the below compilation flag in bottom of the local.conf file

```
RMS_STREAM_WITH_PIPEWIRE = "1"
```

```
CVR_WITH_PIPEWIRE = "1"
```

```
$ vi conf/local.conf  
  
RMS_STREAM_WITH_PIPEWIRE = "1"  
CVR_WITH_PIPEWIRE = "1"
```

Building

```
$ bitbake rdk-generic-camera-image
```

Flash Procedure

```
$ bzcata "Image Name" | sudo dd of="Device Name" bs=4M iflag=fullblock oflag=direct conv=fsync
```

Example:

```
bzcata rdk-generic-camera-image_default_20201127105606.rootfs.wic.bz2 | sudo dd of=/dev/sdc bs=4M  
iflag=fullblock oflag=direct conv=fsync
```