

RDK-C rdk-next Yocto 3.1 dunfell 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 dunfell
                                     ( or )
$ repo init -u https://code.rdkcentral.com/r/manifests -m rdkc-extsrc.xml -b dunfell
```

Download/Sync

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

Layer Cherrypick

This is the temporary steps,once the changes get merged in rdk-next then we will remove this cherry pick details

```
$ cd meta-rdk-camera
$ git fetch https://code.rdkcentral.com/r/components/generic/rdk-oe/meta-rdk-camera refs/changes/12/63112/2 &&
git cherry-pick FETCH_HEAD

$ cd meta-cmf-camera
$ git fetch https://code.rdkcentral.com/r/components/generic/rdk-oe/meta-cmf-camera refs/changes/13/63113/3 &&
git cherry-pick FETCH_HEAD

$ cd meta-rdk-ext
$ git fetch https://code.rdkcentral.com/r/rdk/components/generic/rdk-oe/meta-rdk-ext refs/changes/93/64693/3 &&
git cherry-pick FETCH_HEAD
```

Environment Setup

```
RPI 3B+:
$ MACHINE=raspberrypi3-rdk-camera source meta-cmf-raspberrypi/setup-environment

RPI0:
$ MACHINE=raspberrypi0-rdk-camera source meta-cmf-raspberrypi/setup-environment
```

Building

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

Source Code Cherrypick

This is the temporary steps,once the changes get merged in rdk-next then we will remove this cherry pick details

```
$ cd tmp/work/cortexa7t2hf-neon-vfpv4-rdk-linux-gnueabi/rms/git-r0/git
$ git fetch https://code.rdkcentral.com/r/rdkc/components/opensource/rms refs/changes/16/63116/2 && git cherry-pick FETCH_HEAD

$ cd tmp/work/cortexa7t2hf-neon-vfpv4-rdk-linux-gnueabi/cvr/git-r0/git
$ git fetch https://code.rdkcentral.com/r/rdkc/components/opensource/cvr refs/changes/73/62873/3 && git cherry-pick FETCH_HEAD
```

Flash Procedure

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

Example:

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