

# RDKB\_2023q4\_kirkstone

This is the summary page that describes the first CMF kirkstone quarterly release **rdkb-2023q4-kirkstone** based on the branch **rdk-next** and kirkstone oe layers. Below are links to the relevant documents.

- RPI profile has enabled DISTRO OneWifi.
- For RPI 4 Extender see [RPI4 Extender - reference implementation](#)

*Note: The latest rdkb quarterly release addresses licensing issues so users are advised to move to the latest iteration.*

- [rdkb-2023q4-kirkstone RaspberryPi 4 Test Report](#) (Gerrit)
- [RDK-B 2023Q4 Kirkstone TDK Test Reports - M119](#)
- [RDKB - Automatics Test Reports 2023Q4 Kirkstone](#)
- [RDKB-2023q4-kirkstone RPi 4 32bit Broadband License Manifest Report](#)
- [RDKB-2023q4-kirkstone RPi 4 64bit Broadband License Manifest Report](#)

*For the Gerrit links, you need to log in before you will be able to see the contents.*

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## Baseline

Baseline Branch	nightly/20231207-kirkstone
Post-baseline updates	
TDK	<a href="#">M119</a>
Manifest branch	rdkb-2023q4-kirkstone

## Highlights

As this is the first kirkstone release no changelog or highlights are provided, please see [RDKB\\_2023q4\\_dunfell](#) release page for a list of RDK-B changes since the 2023Q3 release.

## Getting the code

*Note:*

- The manifests repository is only available to RDK licensees.
- Opensource versions of the RDKB manifests are available from the [rdkcmf/manifests repository](#) **rdkb-2023q4-kirkstone** branch

```
mkdir <workspace dir>
cd <workspace dir>

repo init -u https://code.rdkcentral.com/r/rdkcmf/manifests -m rdkb-extsrc.xml -b rdkb-2023q4-kirkstone
repo sync --no-clone-bundle --no-tags
```

- The -m <manifest.xml> in the sequence above is important. If this is not specified, you will get an RDK-V tree by default.
  - For RPI builds use manifest: rdkb.xml

```
repo init -u https://code.rdkcentral.com/r/rdkcmf/manifests -m rdkb-extsrc.xml -b rdkb-2023q4-kirkstone
```

- The -b rdkb-2023q4-kirkstone in the build sequence above specifies the branch to use.
- If you omit the -b rdkb-2023q4-kirkstone entirely, you will get the HEAD of each component

## Building the code

### Building for RaspberryPi 4B 32 Bit

```
mkdir <workspace dir>
cd <workspace dir>

repo init -u https://code.rdkcentral.com/r/rdkcmf/manifests -m rdkb-extsrc.xml -b rdkb-2023q4-kirkstone
repo sync --no-clone-bundle --no-tags

MACHINE=raspberrypi4-rdk-broadband source meta-cmf-raspberrypi/setup-environment

bitbake rdk-generic-broadband-image

# To build TDK image
bitbake rdk-generic-broadband-tdk-image
```

- Note. The kernel Image and root filesystem will be created under the ./tmp/deploy/images/raspberrypi4-rdk-broadband folder

### Building for RaspberryPi 4B 64 Bit

```
mkdir <workspace dir>
cd <workspace dir>

repo init -u https://code.rdkcentral.com/r/rdkcmf/manifests -m rdkb-extsrc.xml -b rdkb-2023q4-kirkstone
repo sync --no-clone-bundle --no-tags

MACHINE=raspberrypi4-64-rdk-broadband source meta-cmf-raspberrypi/setup-environment

bitbake rdk-generic-broadband-image

# To build TDK image
bitbake rdk-generic-broadband-tdk-image
```

- Note. The kernel Image and root filesystem will be created under the ./tmp/deploy/images/raspberrypi4-64-rdk-broadband folder

## Documentation

Documentation on the RDK-B reference platforms including host requirement setup and flashing instructions are available from the following links:

[RDK Reference Platforms](#)

[RDK-B \(RaspberryPi\)](#)

[RDK-B R-Pi Yocto 3.1 - Dunfell](#)

[RDK-B \(Raspberry Pi\) Build and Setup Manual - Router Profile](#)

[RDK-B Turris](#)

[Kirkstone \(Yocto 4.0\) Migration - RDK-B](#)

[RPI4 Extender - reference implementation](#)

For all other RDK documentation please refer to the RDK wiki at <https://wiki.rdkcentral.com/>

# Testing

## Sanity Testing

RPI Sanity tests include:

- Services checks (wifiagent, hostapd, ccsp processes)
- Network (WAN) connectivity
- LAN client
- Wifi 2.4Ghz and 5Ghz hotspot testing.
- Login, menu navigation, parameter modification, e.g. Wifi SSID/password change and re-connection, changing admin password.

Test No.	Test	RPI 4 32 Bit	RPI 4 64 Bit
1	Boot up & SSH access		
2	Verify SSID name & password		
3	Captive Portal page		
4	Check Internet connectivity (Wi-Fi client)		
5	Check Web UI Launch with local gateway IP and login with admin		
6	verifying whether it is listing the basic parameters		
7	Verified the connected devices are listing		
8	Process Checklist - list of process running and ensure all the CCSP processes are running		
9	DMCLI Output. Verify it is listing all the parameters		

- See [blocked URLREFPLTB-2832](#) - Sanity validation for 2023-Q4 release builds RESOLVED for full list of sanity tests performed

## TDK & Automatics Testing

- TDK component and E2E tests were run against the release
- TDK Manager used is [TDK-B Release M119](#)
- [RDK-B 2023Q4 Kirkstone TDK Test Reports - M119](#)
- [RDKB - Automatics Test Reports 2023Q4 Kirkstone](#)