

# RPI 4B Model Reference Platform: Extender build instructions

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## Introduction

This manual describes the rdk-generic-extender-image build procedure for Yocto 3.1 builds. Yocto 3.1 also contain Long term Support release feature. The upgraded build tools will be used to generate rdk-generic-extender-image for Raspberrypi reference platform.

## Host Setup

- For Host SetUp details refer this link - [How to Build#SettinguptheHostEnvironment](#)

NOTE: Observing fetch errors in VMs with Ubuntu14.x. Thus, suggesting to use VMs with Ubuntu16.x or higher.

## Building

Note: Cloning the code before login once to [code.rdkcentral.com](#), user would get the Authentication error, even though the account is in good standing and has all the required access. Please login to [code.rdkcentral.com](#) before attempting to clone.

To build, follow below instructions

Create workspace directory

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



### OpenSync backhaul credential

Please get patch(service.patch) for meta-turris layer from Plume to apply backhaul credential(SSID:PSK). Please check [Cloud Access Guide](#) for more details.

Follow below instructions to create build with external sources

```
repo init -u https://code.rdkcentral.com/r/manifests -b dunfell -m rdkb-pod-extsrc.xml
repo sync -j4 --no-clone-bundle
MACHINE=raspberrypi4-rdk-extender source meta-cmf-raspberrypi/setup-environment
bitbake rdk-generic-extender-image
```

Else, follow below instructions to create build with no external source

```
repo init -u https://code.rdkcentral.com/r/manifests -b dunfell -m rdkb-pod-nosrc.xml
repo sync -j4 --no-clone-bundle
MACHINE=raspberrypi4-rdk-extender source meta-cmf-raspberrypi/setup-environment
bitbake rdk-generic-extender-image
```

Note. The build artifacts will be placed under <workspace dir>/build-\*/tmp/deploy/images/raspberrypi\*/ directory. Currently, it is in wic.bz2 format.

## Hardwares



Purchase link: [RPI4](#) – 1No



Purchase link: [Netgear Wi-Fi Dongle](#) – 2Nos