

Release feature user manual - Broadband [M10]

Build Instructions :

To build, follow below instructions

```
$ mkdir <workspace dir>
```

```
$ cd <workspace dir>
```

```
$ repo init -u https://code.rdkcentral.com/r/manifests -m rdkb-raspberrypi.xml -b morty
```

```
$ repo sync -j4 --no-clone-bundle
```

```
$ source meta-cmf-raspberrypi/setup-environment (Select option raspberrypi-rdk-broadband.conf)
```

```
$ bitbake rdk-generic-broadband-image
```

Introduction :

The Raspberry Pi 3 Model B+ is the latest production Raspberry Pi 3 featuring a 64-bit quad core **processor** running at 1.4 Ghz. R-Pi3 B+ supports the dual band 2.4GHz and 5GHz IEEE 802.11.b/g/n/ac wireless LAN which provides an high edge for the broadband developer community to test the WiFi functionalities

Required Equipment :

The equipment listed below is required for complete functionality of the standalone environment. The only devices that are tested to work properly in this solution are the specific brands and models listed below. Support for other types of equipment is not available at this time.

1. Raspberry Pi 3 b or Raspberry Pi 3 b+ device
2. Standard USB keyboard
3. Television set/monitor with HDMI input.
4. Ethernet cables
5. USB-Ethernet Adapter
6. SD Card
7. Tp-link dongles

Dongles Information Links :

For xfinity-wifi - 2g - https://www.amazon.in/TP-LINK-TL-WN823N-300Mbps-Wireless-Adapter/dp/B00X3OUQDG?tag=googinhydr18418-21&gclid=EALaIqobChMI5-KK1_Ot3glVFw4rCh3-PAsiEAQYAyABEgJFDvD_BwE

For Private-wifi and xfinity-wifi - 5g - https://www.amazon.in/TP-Link-Archer-T4U-Wireless-Adaptor/dp/B01N2U8YRF/ref=sr_1_14?ie=UTF8&qid=1540893691&sr=8-14&keywords=tp-link+ac1200

Lists of Supported Features :

1. DHCP Gateway Configuration
2. Connected Devices (Wired/Wireless)
3. Private Wifi 2g/5g
4. Xfinity-wifi 2g/5g
5. Parental Control(Managed Devices,Managed Sites,Managed Services)
6. Port Forwarding
7. Remote Management
8. DMZ
9. Factory-Reset
10. CaptivePortal
11. Password-Reset
12. TestandDiagnostics

13. BridgeMode
14. Webpa
15. WPS
16. Bootchart
17. MACFiltering

Yocto Modification for RDK B+ Support :

1. Back port of Linux kernel from sumo branch(4.14.68) to morty branch in meta-raspberrypi layer
2. Modified linux-firmware bbappend in meta-raspberrypi layer to bring up wireless interface
3. Modified bcm2835-bootfiles bbappend and rdk-rpi.inc (added dtb files) in meta-cmf-raspberrypi layer to boot up RPI B+ Board

Note : RPI B and B+ have same Build instructions and testing procedure.