# Wi-Fi CERTIFIED™ Certificate

This certificate lists the features that have successfully completed Wi-Fi Alliance interoperability testing. Learn more: www.wi-fi.org/certification/programs

## Certification ID: WFA132219

## Product Info

| | |
|---|---|
| Date of Certification | August 9, 2024 |
| Company | Orange |
| Product Name | Livebox LB7 |
| Product Model Variant | Livebox LB7 |
| Model Number | PRV36BE347B-H1-LT |
| Category | Routers |
| Sub-category | Cable, DSL or Other Broadband Gateway (Integrated Home Access Device) |

## Summary of Certifications

| CLASSIFICATION | CERTIFICATION |
|---|---|
| Access | Wi-Fi Protected Setup™ |
| Connectivity | 2.4 GHz Spectrum Capabilities <br> 5 GHz Spectrum Capabilities <br> Wi-Fi CERTIFIED 6® Release 2 <br> Wi-Fi CERTIFIED 7™ <br> Wi-Fi CERTIFIED™ a <br> Wi-Fi CERTIFIED™ ac <br> Wi-Fi CERTIFIED™ b <br> Wi-Fi CERTIFIED™ g <br> Wi-Fi CERTIFIED™ n |
| Optimization | WMM® <br> Wi-Fi Agile Multiband™ <br> Wi-Fi EasyMesh™ |
| Security | Protected Management Frames <br> WPA2™-Enterprise 2018-04 <br> WPA2™-Personal 2021-01 <br> WPA3™-Enterprise 2022-12 <br> WPA3™-Personal 2023-12 |

| CLASSIFICATION | CERTIFICATION |
| --- | --- |
| Spectrum & Regulatory Features | Spectrum & Regulatory |

# Wi-Fi CERTIFIED™ Certificate

## Wi-Fi Components

### Wi-Fi Component Operating System

Linux 4.19.294

### Wi-Fi Component Firmware

17.10.369.39012

### RF Architecture

| Bands Supported | Transmit (Tx) | Receive (Rx) |
|---|---|---|
| 2.4 GHz | 3 | 3 |
| 5 GHz | 4 | 4 |

## Certifications

### 2.4 GHz Spectrum Capabilities

20 MHz Channel Width in 2.4 GHz
40 MHz Channel Width in 2.4 GHz

### 5 GHz Spectrum Capabilities

20 MHz Channel Width in 5 GHz
40 MHz Channel Width in 5 GHz
80 MHz Channel Width in 5 GHz
160 MHz Channel Width in 5 GHz

### Protected Management Frames

### Spectrum & Regulatory

802.11h

### WMM®

### WPA2™-Enterprise 2018-04

EAP methods

### WPA2™-Personal 2021-01

### WPA3™-Enterprise 2022-12

EAP methods

### WPA3™-Personal 2023-12

AKM 24
Beacon Protection

### Wi-Fi Agile Multiband™

### Wi-Fi CERTIFIED 6® Release 2

4 antenna support
A-MPDU with A-MSDU
Basic Trigger frame in HE MU PPDU
Beamforming sounding
BSRP Trigger frame
Compressed Block Ack Rx (buffer size 256)
Compressed Block Ack Tx (buffer size 256)
DL MU-MIMO
DL OFDMA
Individual Target Wake Time

### Wi-Fi CERTIFIED 6® Release 2 (continued)

LDPC Rx

LDPC Tx

MCS 8-9 Rx

MCS 8-9 Tx

MCS 10-11 Rx

MCS 10-11 Tx

MU EDCA Parameter Set element

MU-BAR Trigger frame

MU-RTS Trigger frame

Operating mode subfield in A-Control field

Operating mode indication

Operating mode UL MU Rx

SU beamformer

SU-MIMO

TXOP RTS Threshold

UL OFDMA

Wi-Fi 6 Release 2 features

- UL MU-MIMO
- UL MU Control
- UL Extended Range
- Target Wake Time information frames
- Broadcast Target Wake Time
- Extended sleep
- Dynamic MU SMPS
- Preamble Puncturing

### Wi-Fi CERTIFIED 7™ (continued)

DL MU-MIMO

DL OFDMA

Dynamic MU SMPS

EMLSR (Enhanced Multilink Single-Radio)

EPCS (Emergency Preparedness Communications Services) priority access

LDPC Rx

LDPC Tx

Load Balancing in MLO

MCS 8-9 Rx

MCS 8-9 Tx

MCS 10-11 Rx

MCS 10-11 Tx

MCS 12-13 Rx

MCS 12-13 Tx

Multi-link reconfiguration – AP removal

Multi-link reconfiguration – AP restart

Multi-RU

MU-RTS Trigger frame

Operating mode indication

STR (Simultaneous Transmit and Receive)

SU-MIMO

Triggered uplink access optimization

UL MU-MIMO

UL OFDMA

### Wi-Fi CERTIFIED 7™

Advertised TID-to-link mapping

A-MPDU with A-MSDU

Beamforming sounding

BSRP Trigger frame

BSS critical update

Compressed Block Ack Rx (buffer size 256)

Compressed Block Ack Tx (buffer size 256)

### Wi-Fi CERTIFIED™ a

### Wi-Fi CERTIFIED™ ac

A-MPDU with A-MSDU

DL MU-MIMO

LDPC Rx

LDPC Tx

MCS 8-9 Rx

## Wi-Fi CERTIFIED™ ac (continued)

Short Guard Interval
STBC
SU beamformer

## Wi-Fi CERTIFIED™ b

## Wi-Fi CERTIFIED™ g

## Wi-Fi CERTIFIED™ n

A-MPDU Tx
HT Duplicate Mode
OBSS on Extension Channel
Short Guard Interval
STBC

## Wi-Fi Protected Setup™

PIN
Pushbutton

# Wi-Fi CERTIFIED™ Certificate

## Certification ID: WFA132219

**Wi-Fi Components**

**Wi-Fi Component Operating System**

Linux 4.19.294

**Certifications**

**Wi-Fi EasyMesh™**