



# 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](http://www.wi-fi.org/certification/programs)

## Certification ID: WFA128235

### Product Info

<b>Date of Certification</b>	May 28, 2024
<b>Company</b>	Buffalo Inc.
<b>Product Name</b>	BUFFALO AirStation WXR18000BE10P
<b>Product Model Variant</b>	Add EasyMesh R5 Agent Certification
<b>Model Number</b>	WXR18000BE10P
<b>Category</b>	Routers
<b>Sub-category</b>	Access Point for Home or Small Office (Wireless Router)

### Summary of Certifications

CLASSIFICATION	CERTIFICATION
<b>Connectivity</b>	2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities 6 GHz Spectrum Capabilities Wi-Fi CERTIFIED 6® Release 2 Wi-Fi CERTIFIED 7™ Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ ac Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n Wi-Fi Enhanced Open™ 2023-12
<b>Optimization</b>	WMM® Wi-Fi Agile Multiband™ Wi-Fi EasyMesh™
<b>Security</b>	Protected Management Frames WPA2™-Personal 2021-01 WPA3™-Personal 2023-12
<b>Spectrum &amp; Regulatory Features</b>	Spectrum & Regulatory



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Certification ID: WFA128235



Role: Access Point

Page 2 of 5

## Wi-Fi Components

### Wi-Fi Component Operating System

Linux 5.4.246

### Wi-Fi Component Firmware

4.00

### RF Architecture

Bands Supported	Transmit (Tx)	Receive (Rx)
2.4 GHz	2	2
5 GHz	4	4
6 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

### Spectrum & Regulatory (continued)

802.11d  
802.11h

### 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

### WMM®

### WPA2™-Personal 2021-01

### WPA3™-Personal 2023-12

AKM 24  
Beacon Protection

### 6 GHz Spectrum Capabilities

20 MHz Channel Width in 6 GHz  
40 MHz Channel Width in 6 GHz  
80 MHz Channel Width in 6 GHz  
160 MHz Channel Width in 6 GHz  
320 MHz channel width in 6 GHz

### 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  
BSRP Trigger frame  
Compressed Block Ack Rx (buffer size 256)  
Compressed Block Ack Tx (buffer size 256)

### Protected Management Frames

### Spectrum & Regulatory



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Certification ID: WFA128235



Role: Access Point

Page 3 of 5

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

DL MU-MIMO  
DL OFDMA  
Individual Target Wake Time  
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 indication  
SU beamformer  
SU-MIMO  
TXOP RTS Threshold  
UL OFDMA  
Wi-Fi 6E  
Wi-Fi 6 Release 2 features

- UL MU Control
- UL Extended Range
- Target Wake Time information frames
- Dynamic MU SMPS

## Wi-Fi CERTIFIED 7™

A-MPDU with A-MSDU  
Basic Trigger frame in EHT MU PPDU  
BSRP Trigger frame  
BSS critical update  
Compressed Block Ack Rx (buffer size 256)  
Compressed Block Ack Tx (buffer size 256)  
Compressed Block Ack Rx (buffer size 512)  
Compressed Block Ack Tx (buffer size 512)  
DL MU-MIMO

## Wi-Fi CERTIFIED 7™ (continued)

DL OFDMA  
Dynamic MU SMPS  
EMLSR (Enhanced Multilink Single-Radio)  
LDPC Rx  
LDPC Tx  
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-RU  
MU-RTS Trigger frame  
Operating mode indication

- Operating mode indication for 320 MHz

Static puncturing  
STR (Simultaneous Transmit and Receive)  
SU-MIMO  
Triggered uplink access optimization  
UL OFDMA

## Wi-Fi CERTIFIED™ a

## Wi-Fi CERTIFIED™ ac

A-MPDU with A-MSDU  
DL MU-MIMO  
LDPC Rx  
LDPC Tx  
MCS 8-9 Rx  
RTS with BW Signaling  
Short Guard Interval  
STBC  
SU beamformer



# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA128235



Role: Access Point

Page 4 of 5

## 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 EasyMesh™

Backhaul Link  
    Backhaul in 2.4 GHz  
    Backhaul in 5 GHz low band  
    Backhaul over Ethernet  
Fronthaul Access Point  
    Fronthaul in 2.4 GHz  
    Fronthaul in 5 GHz low band  
Agent-initiated Steering capability  
Backhaul onboarding with Wi-Fi Protected Setup pushbutton  
Channel Scan on Request  
Client Capability Query  
Coordinated CAC  
Traffic separation  
Unassociated STA Link Metrics Reporting  
Indefinite/Timed Block of stations

## Wi-Fi Enhanced Open™ 2023-12



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Certification ID: WFA128235



**Role: Controller**

**Page 5 of 5**

## Wi-Fi Components

Wi-Fi Component Operating System

Linux 5.4.246

## Certifications

Wi-Fi EasyMesh™