



# 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: WFA126676

### Product Info

<b>Date of Certification</b>	August 14, 2023
<b>Company</b>	MaxLinear Inc.
<b>Product Name</b>	Maxlinear Wi-Fi 7 Triband Access Point
<b>Product Model Variant</b>	Maxlinear Wi-Fi 7 Triband Access Point
<b>Model Number</b>	ZURX851-HDK-2
<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™ a Wi-Fi CERTIFIED™ ac Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n Wi-Fi Enhanced Open™ 2021-01
<b>Optimization</b>	WMM® Wi-Fi Agile Multiband™
<b>Security</b>	Protected Management Frames WPA2™-Enterprise 2018-04 WPA2™-Personal 2021-01 WPA3™-Enterprise 2022-12 WPA3™-Personal 2022-06
<b>Spectrum &amp; Regulatory Features</b>	Spectrum & Regulatory



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Role: Access Point

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## Wi-Fi Components

### Wi-Fi Component Operating System

Linux Kernel 5.15

### Wi-Fi Component Firmware

6.1.0

### RF Architecture

Bands Supported	Transmit (Tx)	Receive (Rx)
2.4 GHz	4	4
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

### 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

### 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

### Protected Management Frames

### Spectrum & Regulatory

### Spectrum & Regulatory (continued)

802.11d

### WMM®

### WPA2™-Enterprise 2018-04

EAP methods

### WPA2™-Personal 2021-01

### WPA3™-Enterprise 2022-12

EAP methods

### WPA3™-Personal 2022-06

### Wi-Fi Agile Multiband™

Cellular Data aware

### Wi-Fi CERTIFIED 6® Release 2



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

- 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)
- 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
- M-BSSID
- Operating mode indication
- SU beamformer
- SU-MIMO
- TXOP RTS Threshold
- UL OFDMA
- Wi-Fi 6E
  - Co-located BSS
- 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
  - M-BSSID control frames
  - Preamble Puncturing

## Wi-Fi CERTIFIED™ a

### Wi-Fi CERTIFIED™ ac

- RTS with BW Signaling
- Extended 5 GHz Channel Support
- A-MPDU with A-MSDU
- DL MU-MIMO
- LDPC Rx
- LDPC Tx
- MCS 8-9 Rx
- 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 Enhanced Open™ 2021-01