



# 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: WFA132136

### Product Info

<b>Date of Certification</b>	November 8, 2024
<b>Company</b>	Zyxel Communications Corporation
<b>Product Name</b>	Tri-Band Wireless BE18000 10G Ethernet Gateway
<b>Product Model Variant</b>	EE6510-10
<b>Model Number</b>	EE6510-10
<b>Category</b>	Routers
<b>Sub-category</b>	Cable, DSL or Other Broadband Gateway (Integrated Home Access Device)

### 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® Wi-Fi CERTIFIED 7™ Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ ac Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n
<b>Optimization</b>	WMM® Wi-Fi Agile Multiband™
<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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Role: Access Point

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## Wi-Fi Components

### Wi-Fi Component Operating System

Linux version 4.19.274

### Wi-Fi Component Firmware

V5.19(ACJQ0)C0

### RF Architecture

Bands Supported	Transmit (Tx)	Receive (Rx)
2.4 GHz	3	3
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  
320 MHz channel width in 6 GHz

### Protected Management Frames

### Spectrum & Regulatory

### Spectrum & Regulatory (continued)

802.11h

### WMM®

### WPA2™-Personal 2021-01

### WPA3™-Personal 2023-12

AKM 24  
Beacon Protection

### Wi-Fi Agile Multiband™

### Wi-Fi CERTIFIED 6®

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)



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## Wi-Fi CERTIFIED 6® (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 CERTIFIED 7™ (continued)

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  
     Operating mode indication for 320 MHz  
 Static puncturing  
 STR (Simultaneous Transmit and Receive)  
 SU-MIMO  
 Triggered uplink access optimization  
 UL MU-MIMO  
 UL OFDMA

## Wi-Fi CERTIFIED™ a

## Wi-Fi CERTIFIED 7™

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)  
 DL MU-MIMO  
 DL OFDMA  
 Dynamic MU SMPS  
 EMLSR (Enhanced Multilink Single-Radio)  
 LDPC Rx  
 LDPC Tx  
 MCS 8-9 Rx  
 MCS 8-9 Tx

## Wi-Fi CERTIFIED™ ac

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



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## Wi-Fi CERTIFIED™ n (continued)

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