



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

**Certification ID: WFA128463**

## Product Info

|                       |                                                                       |
|-----------------------|-----------------------------------------------------------------------|
| Date of Certification | January 15, 2024                                                      |
| Company               | Zyxel Communications Corporation                                      |
| Product Name          | Tri-Band Wireless BE19000 10G Ethernet IAD with SFP+                  |
| Product Model Variant | EE6601-00                                                             |
| Model Number          | EE6601-00                                                             |
| Category              | Routers                                                               |
| Sub-category          | Cable, DSL or Other Broadband Gateway (Integrated Home Access Device) |

## Summary of Certifications

| CLASSIFICATION                 | CERTIFICATION                                                                                                                                                                                                                                          |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connectivity                   | 2.4 GHz Spectrum Capabilities<br>5 GHz Spectrum Capabilities<br>6 GHz Spectrum Capabilities<br>Wi-Fi CERTIFIED 6®<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™                                                                                                                                                                                                                         |
| Security                       | Protected Management Frames<br>WPA2™-Personal 2021-01<br>WPA3™-Personal 2023-12                                                                                                                                                                        |
| Spectrum & Regulatory Features | Spectrum & Regulatory                                                                                                                                                                                                                                  |

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Role: Access Point

Page 2 of 3

## Wi-Fi Components

### Wi-Fi Component Operating System

Linux version 4.19.275

### Wi-Fi Component Firmware

5.04L.04p2

### 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

### 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

### Wi-Fi Agile Multiband™

### Wi-Fi CERTIFIED 6®

4 antenna support  
A-MPDU with A-MSDU  
Basic Trigger frame in HE MU PPDU  
BSRP Trigger frame  
DL MU-MIMO  
DL OFDMA

### Protected Management Frames

### Spectrum & Regulatory

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Page 3 of 3

## Wi-Fi CERTIFIED 6® (continued)

Individual Target Wake Time  
LDPC Rx  
LDPC Tx  
MCS 8-9 Rx  
MCS 8-9 Tx  
MCS 10-11 Rx  
MCS 10-11 Tx  
Operating mode subfield in A-Control field  
Operating mode indication  
Operating mode UL MU Rx  
SU beamformer  
SU-MIMO  
UL OFDMA  
Wi-Fi 6E

## Wi-Fi CERTIFIED 7™

A-MPDU with A-MSDU  
BSRP Trigger frame  
BSS critical update  
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  
MCS 10-11 Rx  
MCS 10-11 Tx  
Multi-link reconfiguration – AP removal  
Multi-link reconfiguration – AP restart  
Multi-RU  
Operating mode indication  
Static puncturing

## Wi-Fi CERTIFIED 7™ (continued)

STR (Simultaneous Transmit and Receive)  
SU-MIMO  
Triggered uplink access optimization  
UL MU-MIMO  
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  
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

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