# 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 ID: WFA129434

## Product Info

| | |
|---|---|
| **Date of Certification** | January 11, 2024 |
| **Company** | Extreme Networks |
| **Product Name** | AP5050U Universal Wireless Wi-Fi 6E Outdoor Access Point |
| **Product Model Variant** | AP5050U |
| **Model Number** | AP5050U-WW |
| **Category** | Routers |
| **Sub-category** | Enterprise/Service Provider Access Point, Switch/Controller or Router |

## Summary of Certifications

| CLASSIFICATION | CERTIFICATION |
|---|---|
| **Network management** | WMM®<br>WMM®-Admission Control<br>WMM®-Power Save<br>Wi-Fi Agile Multiband™ |
| **Performance** | Voice-Enterprise |
| **Security** | Protected Management Frames<br>WPA2™-Enterprise 2018-04<br>WPA2™-Personal 2021-01<br>WPA3™-Enterprise 2022-12<br>WPA3™-Personal 2022-06<br>Wi-Fi Enhanced Open™ 2021-01 |
| **Wi-Fi (MAC/PHY)** | 2.4 GHz Spectrum Capabilities<br>5 GHz Spectrum Capabilities<br>6 GHz Spectrum Capabilities<br>Spectrum & Regulatory<br>Wi-Fi CERTIFIED 6®<br>Wi-Fi CERTIFIED™ a<br>Wi-Fi CERTIFIED™ ac<br>Wi-Fi CERTIFIED™ b<br>Wi-Fi CERTIFIED™ g |

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# Wi-Fi CERTIFIED® Certificate

## Certification ID: WFA129434

### Summary of Certifications (continued)



| CLASSIFICATION | CERTIFICATION |
|---|---|
| **Wi-Fi (MAC/PHY)** | Wi-Fi CERTIFIED™ n |

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# Wi-Fi CERTIFIED® Certificate

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**Role: Access Point** 

## Wi-Fi Components

**Wi-Fi Component Operating System**

Linux

**Wi-Fi Component Firmware**

17.10.188.93

**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
802.11h

### Voice-Enterprise

### WMM®

Max Throughput

### WMM®-Admission Control

### WMM®-Power Save

Legacy Power Save
Unschedule auto PS

### WPA2™-Enterprise 2018-04

EAP methods

### WPA2™-Personal 2021-01

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# Wi-Fi CERTIFIED® Certificate

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**Role: Access Point** 

### WPA3™-Enterprise 2022-12

EAP methods
Fast Transition OTA on WPA3-Enterprise
Fast Transition OTA on WPA3-Enterprise transition mode

### WPA3™-Personal 2022-06

Fast Transition OTA on WPA3-Personal
Fast Transition OTA on WPA3-Personal transition mode

### Wi-Fi Agile Multiband™

Fast Transition OTA on WPA2-Enterprise
Fast Transition OTA on WPA2-Personal

### Wi-Fi CERTIFIED 6®

4 antenna support
A-MPDU with A-MSDU
Basic Trigger frame in HE MU PPDU
Beamforming sounding
BSRP Trigger frame
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 subfield in A-Control field

### Wi-Fi CERTIFIED 6® (continued)

Operating mode indication
Operating mode UL MU Rx
SU beamformer
SU-MIMO
TXOP RTS Threshold
UL OFDMA
Wi-Fi 6E
    Co-located BSS

### Wi-Fi CERTIFIED™ a

### Wi-Fi CERTIFIED™ ac

Extended 5 GHz Channel Support
A-MPDU with A-MSDU
DL MU-MIMO
LDPC Rx
LDPC Tx
MCS 8 Rx
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
RIFS

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**Role: Access Point** 

### Wi-Fi CERTIFIED™ n (continued)

Short Guard Interval

STBC

### Wi-Fi Enhanced Open™ 2021-01

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