# 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

## Certification ID: WFA125667

## Product Info

| | |
|---|---|
| Date of Certification | October 4, 2023 |
| Company | Juniper Networks, Inc. |
| Product Name | AP45 |
| Product Model Variant | AP45-US |
| Model Number | AP45-US |
| Category | Routers |
| Sub-category | Enterprise/Service Provider Access Point, Switch/Controller or Router |

## Summary of Certifications

| CLASSIFICATION | CERTIFICATION |
|---|---|
| Network management | WMM® <br> Wi-Fi Agile Multiband™ |
| 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 <br> Wi-Fi CERTIFIED™ n |

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## Wi-Fi Components

### Wi-Fi Component Operating System

Linux

### Wi-Fi Component Firmware

0.12

### 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

### 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

### 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

802.11d
802.11h

### WMM®

Max Throughput

### WPA2™-Enterprise 2018-04

EAP methods

### WPA2™-Personal 2021-01

### WPA3™-Enterprise 2022-12

EAP methods
192-bit security

### WPA3™-Personal 2022-06

### Wi-Fi Agile Multiband™

Fast Transition OTA on WPA2-Personal

### Wi-Fi CERTIFIED 6®

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### Wi-Fi CERTIFIED 6® (continued)

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

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

### Wi-Fi CERTIFIED™ ac (continued)

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

Short Guard Interval

STBC

### Wi-Fi Enhanced Open™ 2021-01