



This certificate lists the features that have successfully completed Wi-Fi Alliance interoperability testing. Learn more: www.wi-fi.org/certification/programs

Certification ID: WFA134171

Product Info

Date of Certification February 20, 2025

Company Extreme Networks

Product Name AP4020 Universal Wireless Wi-Fi 7

Product Model Variant WiFi 7

Model Number AP4020-WW

Category Routers

Sub-category Enterprise/Service Provider Access Point, Switch/Controller or Router

Summary of Certifications

Connectivity 2.4 GHz Spectrum Capabilities

5 GHz Spectrum Capabilities6 GHz Spectrum CapabilitiesWi-Fi CERTIFIED 6® Release 2

Wi-Fi CERTIFIED 7™ Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ ac Wi-Fi CERTIFIED™ n

Wi-Fi Enhanced Open™ 2023-12

Optimization WMM®

Wi-Fi Agile Multiband™

Security Protected Management Frames

WPA2[™]-Enterprise 2018-04 WPA2[™]-Personal 2021-01 WPA3[™]-Enterprise 2022-12 WPA3[™]-Personal 2024-10

Spectrum & Regulatory

Features

Spectrum & Regulatory



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| Role: Access Point | Page 2 of 4 | |
|--|---|-----|
| Wi-Fi Components | | |
| Wi-Fi Component Operating System | RF Architecture | |
| Linux | Bands Supported Transmit (Tx) Receive (F | ₹x) |
| Wi-Fi Component Firmware | 2.4 GHz 2 2 | |
| 17.10.369.61 | 5 GHz 2 2 | |
| | 6 GHz 2 2 | |
| Certifications | | |
| 2.4 GHz Spectrum Capabilities | Spectrum & Regulatory (continued) | |
| 20 MHz Channel Width in 2.4 GHz 40 MHz Channel Width in 2.4 GHz | 802.11d 802.11h | |
| 5 GHz Spectrum Capabilities | WMM® | |
| 20 MHz Channel Width in 5 GHz 40 MHz Channel Width in 5 GHz | Max Throughput | |
| 80 MHz Channel Width in 5 GHz 160 MHz Channel Width in 5 GHz | WPA2™-Enterprise 2018-04 | |
| 6 GHz Spectrum Capabilities | EAP methods | |
| 20 MHz Channel Width in 6 GHz | WPA2™-Personal 2021-01 | |
| 40 MHz Channel Width in 6 GHz | WPA3™-Enterprise 2022-12 | |
| 80 MHz Channel Width in 6 GHz 160 MHz Channel Width in 6 GHz | WI A0 -Litter prise 2022-12 | |
| 320 MHz channel width in 6 GHz | EAP methods 192-bit security | |
| Protected Management Frames | Fast Transition OTA on WPA3-Enterprise Fast Transition OTA on WPA3-Enterprise transition mode | |
| Spectrum & Regulatory | WPA3™-Personal 2024-10 | |



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WPA3™-Personal 2024-10 (continued)

AKM 24

Fast Transition OTA on WPA3-Personal

Fast Transition OTA on WPA3-Personal transition mode

Beacon Protection

Wi-Fi Agile Multiband™

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

Wi-Fi CERTIFIED 6® Release 2 (continued)

TXOP RTS Threshold

UL OFDMA

Wi-Fi 6E

Co-located BSS

Wi-Fi 6 Release 2 features

UL MU-MIMO

UL MU Control

Target Wake Time information frames

Dynamic MU SMPS

Preamble Puncturing

Wi-Fi CERTIFIED 6® Release 2

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)

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

Wi-Fi CERTIFIED 7™

Advertised TID-to-link mapping

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)

EPCS (Emergency Preparedness Communications Services)

priority access

LDPC Rx

LDPC Tx

Load Balancing in MLO

MCS 8-9 Rx

MCS 8-9 Tx

MCS 10-11 Rx

MCS 10-11 Tx

MCS 12-13 Rx

MCS 12-13 Tx



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Wi-Fi CERTIFIED 7™ (continued)

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™ ac

A-MPDU with A-MSDU

DL MU-MIMO

Extended 5 GHz Channel Support

LDPC Rx

LDPC Tx

MCS 8 Rx

MCS 8-9 Rx

Short Guard Interval

STBC

SU beamformer

Wi-Fi CERTIFIED™ n

A-MPDU Tx

HT Duplicate Mode

OBSS on Extension Channel

RIFS

Short Guard Interval

Wi-Fi CERTIFIED™ n (continued)

STBC

Wi-Fi Enhanced Open™ 2023-12