



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

Certification ID: WFA131916

Product Info

Date of Certification August 20, 2024

Company Extreme Networks

Product Name AP5020 Universal Wireless Wi-Fi 7

Product Model Variant Wi-Fi 7

Model Number AP5020-WW

Category Routers

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

Summary of Certifications

CLASSIFICATION CERTIFICATION

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™ b
Wi-Fi CERTIFIED™ g
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 2023-12

Spectrum & Regulatory

Features

Spectrum & Regulatory







Role: Access Point		Page 2 of 4		
Wi-Fi Components				
Wi-Fi Component Operating System	RF Architecture			
Wi-Fi Component Firmware 17.10.369.1808	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	Spectrum & Regulatory (continued)			
20 MHz Channel Width in 2.4 GHz	802.11d	802.11d		
40 MHz Channel Width in 2.4 GHz	802.11h			
5 GHz Spectrum Capabilities	WMM®			
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	Max Throughput			
	WPA2™-Enterprise 2018-04			
6 GHz Spectrum Capabilities	EAP methods			
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	WPA2™-Personal 2021-01			
	WPA3™-Enterprise 2022-12			
	EAP methods			
	192-bit security			
Protected Management Frames	WPA3™-Persona	l 2023-12		
Spectrum & Regulatory				



Certification ID: WFA131916



Role: Access Point

Page 3 of 4

WPA3™-Personal 2023-12 (continued)

AKM 24

Beacon Protection

Wi-Fi Agile Multiband™

Fast Transition OTA on WPA2-Personal

Wi-Fi CERTIFIED 6® Release 2 (continued)

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

4 antenna support

A-MPDU with A-MSDU

Basic Trigger frame in HE MU PPDU

Beamforming sounding

BSRP Trigger frame

Co-located BSS

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 indication

SU beamformer

SU-MIMO

TXOP RTS Threshold

UL OFDMA

Wi-Fi 6E

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)

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

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





Certification ID: WFA131916

Wi-Fi Enhanced Open™ 2023-12

Role: Access Point Page 4 of 4

Wi-Fi CERTIFIED 7™ (continued)

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™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

A-MPDU Tx

HT Duplicate Mode

OBSS on Extension Channel

RIFS

Short Guard Interval

STBC