



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

Certification ID: WFA131992

Product Info

Date of Certification February 26, 2025

Company HAN Networks Co., Ltd.

Product Name HAN Access Point

Product Model Variant add MCS12-13

Model Number AP521

Category Routers

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

Summary of Certifications

CLASSIFICATION CERTIFICATION

Access Passpoint® Release 3

Connectivity 2.4 GHz Spectrum Capabilities

5 GHz Spectrum Capabilities6 GHz Spectrum Capabilities

Wi-Fi CERTIFIED 6®
Wi-Fi CERTIFIED 7™
Wi-Fi CERTIFIED™ a
Wi-Fi CERTIFIED™ ac
Wi-Fi CERTIFIED™ b
Wi-Fi CERTIFIED™ g
Wi-Fi CERTIFIED™ n

Wi-Fi Enhanced Open™ 2023-12

Optimization WMM®

WMM®-Power Save Wi-Fi Agile Multiband™

Security Protected Management Frames

WPA2[™]-Enterprise 2018-04 WPA2[™]-Personal 2021-01 WPA3[™]-Enterprise 2022-12 WPA3[™]-Personal 2023-12





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Summary	of Certifica	ations	cont	inued)
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CLASSIFICATION

CERTIFICATION

Spectrum & Regulatory

Spectrum & Regulatory

Features





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Role: Access Point		P	age 3 of 5		
Wi-Fi Components					
Wi-Fi Component Operating System	RF Architecture				
linux 5.4	Bands Supported	Transmit (Tx)	Receive (Rx)		
Wi-Fi Component Firmware	2.4 GHz	2	2		
SPF 12.2	5 GHz	4	4		
	6 GHz	2	2		
Certifications					
2.4 GHz Spectrum Capabilities	Passpoint® Relea	Passpoint® Release 3 (continued)			
20 MHz Channel Width in 2.4 GHz	Terms and Conditions	Terms and Conditions			
40 MHz Channel Width in 2.4 GHz	Venue Information				
5 GHz Spectrum Capabilities	Protected Manage	Protected Management Frames			
20 MHz Channel Width in 5 GHz	Spectrum & Regu	Spectrum & Regulatory			
40 MHz Channel Width in 5 GHz 80 MHz Channel Width in 5 GHz	802.11d	802.11d			
160 MHz Channel Width in 5 GHz	802.11h				
6 GHz Spectrum Capabilities	WMM®				
20 MHz Channel Width in 6 GHz	WMM®-Power Sa	WMM®-Power Save			
40 MHz Channel Width in 6 GHz 80 MHz Channel Width in 6 GHz	Unschedule auto PS	Unschedule auto PS			
160 MHz Channel Width in 6 GHz					
320 MHz channel width in 6 GHz	WPA2™-Enterpris	se 2018-04			
Passpoint® Release 3	EAP methods				
Roaming Consortium Selection	WPA2™-Personal	2021-01			



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WPA3™-Enterprise 2022-12

EAP methods 192-bit security

WPA3™-Personal 2023-12

AKM 24

Beacon Protection

Wi-Fi Agile Multiband™

Automatically populate BSS Transition candidate list Cellular Data aware

Wi-Fi CERTIFIED 6®

A-MPDU with A-MSDU

Basic Trigger frame in HE MU PPDU

BSRP Trigger frame

Compressed Block Ack Rx (buffer size 256)

Compressed Block Ack Tx (buffer size 256)

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

M-BSSID

Operating mode subfield in A-Control field

Operating mode indication

Wi-Fi CERTIFIED 6® (continued)

Operating mode UL MU Rx

SU beamformer

SU-MIMO

TXOP RTS Threshold

UL OFDMA

Wi-Fi 6E

Co-located BSS

Wi-Fi CERTIFIED 7™

A-MPDU with A-MSDU

BSRP Trigger frame

BSS critical update

Compressed Block Ack Rx (buffer size 256)

Compressed Block Ack Tx (buffer size 256)

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

MCS 12-13 Rx

MCS 12-13 Tx

Multi-RU

MU-RTS Trigger frame

Operating mode indication

Static puncturing

STR (Simultaneous Transmit and Receive)

SU-MIMO

Triggered uplink access optimization

UL OFDMA



Wi-Fi Enhanced Open™ 2023-12

Wi-Fi CERTIFIED™ Certificate



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Role: Access Point Page 5 of 5 Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ ac A-MPDU with A-MSDU 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 **OBSS** on Extension Channel Short Guard Interval STBC