

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: WFA121146

Product Info

Date of Certification December 12, 2023

Company HAN Networks Co., Ltd.

Product Name HAN Access Point

Product Model Variant add 160M in 6GHz

Model Number AP451

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™ a
Wi-Fi CERTIFIED™ ac
Wi-Fi CERTIFIED™ b
Wi-Fi CERTIFIED™ g
Wi-Fi CERTIFIED™ n

Optimization WMM®

WMM®-Power Save Wi-Fi Agile Multiband™

Security Protected Management Frames

WPA2[™]-Enterprise 2018-04 WPA2[™]-Personal 2021-01 WPA3[™]-Enterprise 2020-02 WPA3[™]-Personal 2020-12

WPA™-Enterprise WPA™-Personal



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Role: Access Point	Page 2 of 3		
Wi-Fi Components			
Wi-Fi Component Operating System	RF Architecture		
Wi-Fi Component Firmware SPF.11.4	Bands Supported	Transmit (Tx)	Receive (Rx)
	2.4 GHz	4	4
	5 GHz	8	8
	6 GHz	4	4
Certifications			
2.4 GHz Spectrum Capabilities	Passpoint® Release 3 (continued)		
20 MHz Channel Width in 2.4 GHz	Venue Information		
40 MHz Channel Width in 2.4 GHz	Terms and Conditions		
5 GHz Spectrum Capabilities	Protected Management Frames		
20 MHz Channel Width in 5 GHz 40 MHz Channel Width in 5 GHz 80 MHz Channel Width in 5 GHz	WMM®		
	WMM®-Power Save		
6 GHz Spectrum Capabilities	Unschedule auto PS		
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 Passpoint® Release 3	WPA2™-Enterprise 2018-04		
	EAP methods		
	MDAOTH B	0004.04	_
	WPA2™-Personal 2021-01		
Online Sign Up and Policy provisioning	WPA3™-Enterprise 2020-02		
Online Sign Up using single SSID	EAP methods		
Roaming Consortium Selection			



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WPA3™-Personal 2020-12

WPA™-Enterprise

WPA™-Personal

Wi-Fi Agile Multiband™

Automatically populate BSS Transition candidate list Cellular Data aware

Wi-Fi CERTIFIED 6®

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

M-BSSID

Operating mode indication

SU beamformer

SU-MIMO

Wi-Fi CERTIFIED 6® (continued)

TXOP RTS Threshold

UL OFDMA

Wi-Fi 6E

Multiple M-BSSID

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ ac

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

OBSS on Extension Channel

Short Guard Interval

STBC

A-MPDU Tx