

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: WFA128045

Product Info

Date of Certification	December 15, 2023
Company	HAN Networks Co., Ltd.
Product Name	HAN Access Point
Product Model Variant	Add Feature 160M
Model Number	AP411
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 Capabilities 6 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 Wi-Fi Enhanced Open™ 2021-01
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 2022-06 WPA [™] -Enterprise



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Summary of Certifications (continued)		Page 2 of 4
CLASSIFICATION	CERTIFICATION	
Security	WPA™-Personal	
Spectrum & Regulatory Features	Spectrum & Regulatory	



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Role: Access Point Page 3 of 4 **Wi-Fi Components** Wi-Fi Component Operating System **RF** Architecture Linux4.4 Bands Supported Transmit (Tx) Receive (Rx) Wi-Fi Component Firmware 2.4 GHz 4 4 SPF.11.4 5 GHz 8 8 6 GHz 4 4

Certifications

2.4 GHz Spectrum Capabilities	Protected Management Frames
20 MHz Channel Width in 2.4 GHz 40 MHz Channel Width in 2.4 GHz	Spectrum & Regulatory
5 Olla Onestrum Canabilities	802.11d 802.11h
5 GHz Spectrum Capabilities	
40 MHz Channel Width in 5 GHz 80 MHz Channel Width in 5 GHz	
	WMM®-Power Save
6 GHz Spectrum Capabilities	
20 MHz Channel Width in 6 GHz 40 MHz Channel Width in 6 GHz	WPA2™-Enterprise 2018-04
80 MHz Channel Width in 6 GHz 160 MHz Channel Width in 6 GHz	EAP methods
	WPA2™-Personal 2021-01
Passpoint® Release 3	WPA3™-Enterprise 2022-12
Roaming Consortium Selection	
Terms and Conditions	EAP methods
Venue Information	192-bit security



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Role: Access Point

WPA3[™]-Personal 2022-06

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 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 **TXOP RTS Threshold**

Wi-Fi CERTIFIED 6® (continued)

UL OFDMA

Wi-Fi 6E

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

A-MPDU Tx HT Duplicate Mode OBSS on Extension Channel Short Guard Interval STBC

Wi-Fi Enhanced Open™ 2021-01

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