



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: WFA112341

Product Info

Date of Certification	June 23, 2021
Company	HFCL Limited
Product Name	Dual Band 2x2:2 Wi-Fi 6 Indoor AP with iCon8000 Controller
Product Model Variant	2021-05-25
Model Number	HFCL ion4xi AP with iCon8000 Controller
Category	Routers
Sub-category	Enterprise/Service Provider Access Point, Switch/Controller or Router

Summary of Certifications

CLASSIFICATION	CERTIFICATION
Access	Passpoint® Release 2
Connectivity	2.4 GHz Spectrum Capabilities 5 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™ Wi-Fi EasyMesh™
Security	Protected Management Frames WPA2™-Enterprise 2018-04 WPA2™-Personal 2021-01 WPA3™-Enterprise 2020-02 WPA3™-Personal 2020-02



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Summary of Certifications (continued)

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CLASSIFICATION

CERTIFICATION

Spectrum & Regulatory
Features

Spectrum & Regulatory



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Wi-Fi Components

Wi-Fi Component Operating System

Linux 4.4

Wi-Fi Component Firmware

WLAN.HK.2.2-02237-

QCAHKSWPL_SILICONZ-1.367364.1 v1

RF Architecture

Bands Supported	Transmit (Tx)	Receive (Rx)
2.4 GHz	2	2
5 GHz	2	2

Certifications

2.4 GHz Spectrum Capabilities

20 MHz Channel Width in 2.4 GHz

40 MHz Channel Width in 2.4 GHz

WMM®-Power Save

Legacy Power Save

Unschedule auto PS

5 GHz Spectrum Capabilities

20 MHz Channel Width in 5 GHz

40 MHz Channel Width in 5 GHz

80 MHz Channel Width in 5 GHz

WPA2™-Enterprise 2018-04

EAP methods

WPA2™-Personal 2021-01

Passpoint® Release 2

Online Sign Up and Policy provisioning

WPA3™-Enterprise 2020-02

EAP methods

192-bit security

Fast Transition OTA on WPA3-Enterprise

Fast Transition OTA on WPA3-Enterprise transition mode

Fast Transition OTDS on WPA3-Enterprise

Protected Management Frames

Spectrum & Regulatory

802.11d

802.11h

WPA3™-Personal 2020-02

Fast Transition OTA on WPA3-Personal

Fast Transition OTA on WPA3-Personal transition mode

Fast Transition OTDS on WPA3-Personal

WMM®



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Wi-Fi Agile Multiband™

Cellular Data aware
Fast Transition OTA on WPA2-Enterprise
Fast Transition OTA on WPA2-Personal

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 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
TXOP RTS Threshold
UL OFDMA

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ ac

RTS with BW Signaling
Extended 5 GHz Channel Support

Wi-Fi CERTIFIED™ ac (continued)

A-MPDU with A-MSDU
DL MU-MIMO
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

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

Wi-Fi EasyMesh™

Backhaul Link
 Backhaul in 2.4 GHz
 Backhaul in 5 GHz low band
 Backhaul in 5 GHz high band
 Backhaul over Ethernet
Fronthaul Access Point
 Fronthaul in 2.4 GHz
 Fronthaul in 5 GHz low band
 Fronthaul in 5 GHz high band
Agent-initiated Steering capability
Client Capability Query
Unassociated STA Link Metrics Reporting
Backhaul onboarding with Wi-Fi Protected Setup pushbutton



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Wi-Fi Enhanced Open™ 2021-01



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Role: Controller

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Wi-Fi Components

Wi-Fi Component Operating System

Linux 4.4

Certifications

Wi-Fi EasyMesh™