



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: WFA122614

Product Info

| | |
|------------------------------|--|
| Date of Certification | March 12, 2025 |
| Company | HFCL Limited |
| Product Name | IO Wi-Fi 6 Dual Band 8x8:8 Indoor Access Point with Integrated Antenna |
| Product Model Variant | HFCL ion12xi_h/ion12xi_h2 AP with iCon8000 controller |
| Model Number | HFCL ion12xi_h/ion12xi_h2 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 3 Wi-Fi Protected Setup™ |
| 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 2022-06 |



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Summary of Certifications (continued)

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CLASSIFICATION

CERTIFICATION

Spectrum & Regulatory
Features

Spectrum & Regulatory



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Role: Access Point

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Wi-Fi Components

Wi-Fi Component Operating System

Linux 4.4.60

Wi-Fi Component Firmware

WLAN.HK.2.5.r4-00745-
QCAHKSWPL_SILICONZ-1

RF Architecture

| Bands Supported | Transmit (Tx) | Receive (Rx) |
|-----------------|---------------|--------------|
| 2.4 GHz | 4 | 4 |
| 5 GHz | 8 | 8 |

Certifications

2.4 GHz Spectrum Capabilities

20 MHz Channel Width in 2.4 GHz
40 MHz Channel Width in 2.4 GHz

Spectrum & Regulatory (continued)

802.11d
802.11h

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
160 MHz Channel Width in 5 GHz

WMM®

WMM®-Power Save

Legacy Power Save
Unschedule auto PS

Passpoint® Release 3

Online Sign Up and Policy provisioning
Online Sign Up using single SSID
Roaming Consortium Selection
Venue Information
Terms and Conditions

WPA2™-Enterprise 2018-04

EAP methods

WPA2™-Personal 2021-01

WPA3™-Enterprise 2020-02

EAP methods
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



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WPA3™-Personal 2022-06

Fast Transition OTA on WPA3-Personal
Fast Transition OTA on WPA3-Personal transition mode
Fast Transition OTDS on WPA3-Personal
SAE-Public Key

Wi-Fi Agile Multiband™

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

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 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 6 Release 2 features
UL MU-MIMO
UL MU Control
UL Extended Range
Target Wake Time information frames
Extended sleep
Dynamic MU SMPS

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ ac

RTS with BW Signaling
Extended 5 GHz Channel Support
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



Wi-Fi CERTIFIED™ Certificate

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Role: Access Point

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Wi-Fi CERTIFIED™ n (continued)

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

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
Client Capability Query
Unassociated STA Link Metrics Reporting
Channel Scan on Request
Backhaul onboarding with Wi-Fi Protected Setup pushbutton
Coordinated CAC
Traffic separation

Wi-Fi Enhanced Open™ 2021-01

Wi-Fi Protected Setup™

PIN
Pushbutton



Wi-Fi CERTIFIED™ Certificate

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Role: Controller

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Wi-Fi Components

Wi-Fi Component Operating System

Linux 4.4.60

Certifications

Wi-Fi EasyMesh™