



# 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](http://www.wi-fi.org/certification/programs)

**Certification ID: WFA130853**

## Product Info

<b>Date of Certification</b>	April 25, 2024
<b>Company</b>	NXP Semiconductors
<b>Product Name</b>	IW512
<b>Product Model Variant</b>	IW512-Linux
<b>Model Number</b>	IW512
<b>Category</b>	Other
<b>Sub-category</b>	Reference Design

## Summary of Certifications

<b>CLASSIFICATION</b>	<b>CERTIFICATION</b>
<b>Access</b>	Wi-Fi Protected Setup™
<b>Connectivity</b>	2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ ac Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n Wi-Fi Direct® Wi-Fi Enhanced Open™ 2021-01
<b>Optimization</b>	WMM® Wi-Fi Agile Multiband™
<b>Security</b>	Protected Management Frames WPA2™-Enterprise 2018-04 WPA2™-Personal 2021-01 WPA3™-Enterprise 2022-12 WPA3™-Personal 2022-06
<b>Spectrum &amp; Regulatory Features</b>	Spectrum & Regulatory



# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA130853



Role: Access Point

Page 2 of 5

## Wi-Fi Components

### Wi-Fi Component Operating System

Linux

### Wi-Fi Component Firmware

3.p4

### RF Architecture

Bands Supported	Transmit (Tx)	Receive (Rx)
2.4 GHz	1	1
5 GHz	1	1

## Certifications

### 2.4 GHz Spectrum Capabilities

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

### 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

### Protected Management Frames

### Spectrum & Regulatory

802.11d  
802.11h

### WMM®

Max Throughput

### WPA2™-Personal 2021-01

### WPA3™-Personal 2022-06

### Wi-Fi CERTIFIED™ a

### Wi-Fi CERTIFIED™ ac

A-MPDU with A-MSDU  
Extended 5 GHz Channel Support  
LDPC Rx  
LDPC Tx  
MCS 8 Rx  
MCS 8-9 Rx  
RTS with BW Signaling  
Short Guard Interval

### Wi-Fi CERTIFIED™ b

### Wi-Fi CERTIFIED™ g

### Wi-Fi CERTIFIED™ n

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



# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA130853



Role: Access Point

Page 3 of 5

Wi-Fi Enhanced Open™ 2021-01

Wi-Fi Protected Setup™

PIN

Pushbutton



# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA130853



Role: Station

Page 4 of 5

## Wi-Fi Components

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### RF Architecture

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## Certifications

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20 MHz Channel Width in 2.4 GHz  
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### 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

### Protected Management Frames

### Spectrum & Regulatory

802.11d  
802.11h

### WMM®

Max Throughput

### WPA2™-Enterprise 2018-04

### WPA2™-Enterprise 2018-04 (continued)

EAP methods  
EAP TLS  
EAP TTLS  
PEAPv0  
PEAPv1

### WPA2™-Personal 2021-01

### WPA3™-Enterprise 2022-12

EAP methods  
EAP TLS  
EAP TTLS  
PEAPv0  
PEAPv1  
192-bit security  
192-bit security RSA 3K with the  
TLS\_DHE\_RSA\_WITH\_AES\_256\_GCM\_SHA384 cipher  
suite  
192-bit security RSA 3K with the  
TLS\_ECDHE\_RSA\_WITH\_AES\_256\_GCM\_SHA384  
cipher suite  
Server Certificate Validation

### WPA3™-Personal 2022-06



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Certification ID: WFA130853



Role: Station

Page 5 of 5

## Wi-Fi Agile Multiband™

ANQP  
ANQP-based Neighbor report  
BTM Query  
Cellular Data capable

## Wi-Fi Enhanced Open™ 2021-01

## Wi-Fi CERTIFIED™ a

## Wi-Fi CERTIFIED™ ac

Extended 5 GHz Channel Support  
RTS with BW Signaling  
A-MPDU with A-MSDU  
DL MU-MIMO  
LDPC Rx  
MCS 8 Rx  
MCS 8-9 Rx  
Short Guard Interval  
LDPC Tx  
SU beamformee

## Wi-Fi CERTIFIED™ b

## Wi-Fi CERTIFIED™ g

## Wi-Fi CERTIFIED™ n

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

## Wi-Fi Direct®