



# 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: WFA118921**

## Product Info

Date of Certification	August 23, 2022
Company	Sonim Technologies, Inc.
Product Name	Smart Phone
Product Model Variant	add miracast
Model Number	XP9900
Category	Phones
Sub-category	Smartphone

## Summary of Certifications

CLASSIFICATION	CERTIFICATION
Access	Wi-Fi Easy Connect™
Alternative topologies	Wi-Fi Direct®
Applications	Miracast® Wi-Fi Location™
Network management	WMM® WMM®-Admission Control WMM®-Power Save Wi-Fi Agile Multiband™
Performance	Voice-Enterprise
Security	Protected Management Frames WPA2™-Enterprise 2018-04 WPA2™-Personal 2021-01 WPA3™-Enterprise 2020-02 WPA3™-Personal 2020-12
Wi-Fi (MAC/PHY)	2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities Wi-Fi CERTIFIED™ a

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# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA118921



## Summary of Certifications (continued)

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### CLASSIFICATION

Wi-Fi (MAC/PHY)

### CERTIFICATION

Wi-Fi CERTIFIED™ ac

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

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# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA118921



Role: Access Point

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## Wi-Fi Components

### Wi-Fi Component Operating System

Android 12

### Wi-Fi Component Firmware

3.3.2.0.447.0

### 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

### 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

### WMM®

### WPA2™-Personal 2021-01

### WPA3™-Personal 2020-12

### Wi-Fi CERTIFIED™ a

### Wi-Fi CERTIFIED™ ac

A-MPDU with A-MSDU

LDPC Rx

### Wi-Fi CERTIFIED™ ac (continued)

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

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# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA118921



Role: Station

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## Wi-Fi Components

### Wi-Fi Component Operating System

Android 12

### Wi-Fi Component Firmware

3.3.2.0.447.0

### 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

### 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

### Voice-Enterprise

### WMM®

### WMM®-Admission Control

### WMM®-Power Save

Legacy Power Save

Unschedule auto PS

### WPA2™-Enterprise 2018-04

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

EAP methods

EAP AKA

EAP AKA Prime

EAP SIM

EAP TLS

EAP TTLS

PEAPv0

PEAPv1

### WPA2™-Personal 2021-01

### WPA3™-Enterprise 2020-02

EAP methods

EAP AKA

EAP AKA Prime

EAP SIM

EAP TLS

EAP TTLS

PEAPv0

PEAPv1

Server Certificate Validation

### WPA3™-Personal 2020-12

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# Wi-Fi CERTIFIED™ Certificate

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Role: Station

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## Wi-Fi Agile Multiband™

ANQP  
Beacon Report Measurement Active Mode  
Beacon Report Measurement Passive Mode  
BTM Query  
Cellular Data capable  
Fast Transition OTA on WPA2-Enterprise

## Wi-Fi Easy Connect™

Wi-Fi Easy Connect bootstrapping methods  
QR code responder  
Public Key Exchange (PKEX)

## Wi-Fi Location™

Fine Timing Measurement 2017

## Wi-Fi CERTIFIED™ a

## Wi-Fi CERTIFIED™ ac

A-MPDU with A-MSDU  
DL MU-MIMO  
LDPC Rx  
MCS 8-9 Rx  
Short Guard Interval  
STBC  
LDPC Tx  
SU beamformee

## Wi-Fi CERTIFIED™ b

## Wi-Fi CERTIFIED™ g

## Wi-Fi CERTIFIED™ n

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

## Wi-Fi Direct®

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# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA118921



Role: Configurator

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## Wi-Fi Components

### Wi-Fi Component Operating System

Android 12

### Wi-Fi Component Firmware

3.3.2.0.447.0

### RF Architecture

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

## Certifications

### Wi-Fi Easy Connect™

Provisioning configurator

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# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA118921



Role: Source

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## Wi-Fi Components

### Wi-Fi Component Operating System

Android 12

### Wi-Fi Component Firmware

3.3.2.0.447.0

### RF Architecture

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

## Certifications

Miracast®

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