# 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: WFA118921

## Product Info

| | |
|---|---|
| **Date of Certification** | April 13, 2023 |
| **Company** | Sonim Technologies, Inc. |
| **Product Name** | Smart Phone |
| **Product Model Variant** | Add passpoint |
| **Model Number** | XP9900 |
| **Category** | Phones |
| **Sub-category** | Smartphone |

## Summary of Certifications

| CLASSIFICATION | CERTIFICATION |
|---|---|
| **Access** | Passpoint® Release 3<br>Wi-Fi Easy Connect™ |
| **Applications & Services** | Miracast®<br>Voice-Enterprise<br>Wi-Fi Location™ R1 |
| **Connectivity** | 2.4 GHz Spectrum Capabilities<br>5 GHz Spectrum Capabilities<br>Wi-Fi CERTIFIED™ a<br>Wi-Fi CERTIFIED™ ac<br>Wi-Fi CERTIFIED™ b<br>Wi-Fi CERTIFIED™ g<br>Wi-Fi CERTIFIED™ n<br>Wi-Fi Direct® |
| **Optimization** | WMM®<br>WMM®-Admission Control<br>WMM®-Power Save<br>Wi-Fi Agile Multiband™ |
| **Security** | Protected Management Frames<br>WPA2™-Enterprise 2018-04 |

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| CLASSIFICATION | CERTIFICATION |
|---|---|
| Security | WPA2™-Personal 2021-01 |
| | WPA3™-Enterprise 2020-02 |
| | WPA3™-Personal 2020-12 |
| | WPA™-Enterprise |
| | WPA™-Personal |

# Wi-Fi CERTIFIED™ Certificate

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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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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

### Passpoint® Release 3

Network Icon support
Online Sign Up and Policy provisioning
ANQP-element for OSU provider selection
Online Sign Up using single SSID
Venue Information
Terms and Conditions
Roaming Consortium Selection

### Protected Management Frames

### Voice-Enterprise

### WMM®

### WMM®-Admission Control

### WMM®-Power Save

Legacy Power Save
Unschedule auto PS

### WPA2™-Enterprise 2018-04

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

# Wi-Fi CERTIFIED™ Certificate

## Certification ID: WFA118921

### WPA3™-Enterprise 2020-02 (continued)

EAP AKA
EAP AKA Prime
EAP SIM
EAP TLS
EAP TTLS
PEAPv0
PEAPv1
Server Certificate Validation

### WPA3™-Personal 2020-12

### WPA™-Enterprise

### WPA™-Personal

### 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 CERTIFIED™ a

### Wi-Fi CERTIFIED™ ac

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

### Wi-Fi CERTIFIED™ ac (continued)

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®

### Wi-Fi Easy Connect™

Bootstrapping methods
QR code responder
Public Key Exchange (PKEX)

### Wi-Fi Location™ R1

Fine Timing Measurement 2017

## Wi-Fi Components

### Wi-Fi Component Operating System

Android 12

### Wi-Fi Component Firmware

3.3.2.0.447.0

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## Certifications

### Wi-Fi Easy Connect™

Provisioning 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

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### Certifications

**Miracast®**