



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	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™
Applications & Services	Miracast® Voice-Enterprise Wi-Fi Location™ R1
Connectivity	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®
Optimization	WMM® WMM®-Admission Control WMM®-Power Save Wi-Fi Agile Multiband™
Security	Protected Management Frames WPA2™-Enterprise 2018-04 WPA2™-Personal 2021-01



Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA118921



Summary of Certifications (continued)

Page 2 of 7

CLASSIFICATION

CERTIFICATION

Security

WPA3™-Enterprise 2020-02

WPA3™-Personal 2020-12

WPA™-Enterprise

WPA™-Personal



Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA118921



Role: Access Point

Page 3 of 7

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



Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA118921



Role: Station

Page 4 of 7

Wi-Fi Components

Wi-Fi Component Operating System

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Wi-Fi Component Firmware

3.3.2.0.447.0

RF Architecture

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



Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA118921



Role: Station

Page 5 of 7

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
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

Wi-Fi CERTIFIED™ n (continued)

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 CERTIFIED™ Certificate

Certification ID: WFA118921



Role: Configurator

Page 6 of 7

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Android 12

Wi-Fi Component Firmware

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RF Architecture

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Certifications

Wi-Fi Easy Connect™

Provisioning configurator



Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA118921



Role: Source

Page 7 of 7

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®