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: WFA90515

Product Info

Date of Certification	July 1, 2019
Company	Samsung Electronics
Product Name	SM-N976N
Product Model Variant	2019-07-01 (WFA90515 - 9082218)
Model Number	SM-N976N
Category	Phones
Sub-category	Smartphone

Summary of Certifications

CLASSIFICATION	CERTIFICATION
Applications & Services	Voice-Enterprise Wi-Fi Aware™
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® Wi-Fi Enhanced Open™ 2018-04
Optimization	WMM® WMM®-Admission Control WMM®-Power Save Wi-Fi Agile Multiband™ Wi-Fi Optimized Connectivity™ 2018
Security	Protected Management Frames WPA2™-Enterprise 2018-04 WPA2™-Personal 2018-04 WPA3™-Enterprise 2018-04

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Summary of Certifications (continued)

CLASSIFICATION	CERTIFICATION
Security	WPA3™-Personal 2019-04 WPA™-Enterprise WPA™-Personal
Spectrum & Regulatory Features	Spectrum & Regulatory

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Role: Station

Wi-Fi Components

Wi-Fi Component Operating System

Android, version:9.0

Wi-Fi Component Firmware

18.38.8.1

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

Spectrum & Regulatory

802.11h

Voice-Enterprise

WMM®

WMM®-Admission Control

WMM®-Power Save

WMM®-Power Save (continued)

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 2018-04

WPA3™-Enterprise 2018-04

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WPA3™-Enterprise 2018-04 (continued)

EAP TTLS
PEAPv0
PEAPv1

WPA3™-Personal 2019-04

WPA™-Enterprise

WPA™-Personal

Wi-Fi Agile Multiband™

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

Wi-Fi Aware™

Bluetooth® Low Energy - Browser
Bluetooth® Low Energy - Provider
Bluetooth® Low Energy - Seeker
Device Ranging

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ ac

Extended 5 GHz Channel Support
A-MPDU with A-MSDU
DL MU-MIMO
LDPC Rx
MCS 8-9 Rx

Wi-Fi CERTIFIED™ ac (continued)

Short Guard Interval
LDPC Tx
SU beamformee

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

A-MPDU Tx
OBSS on Extension Channel
Short Guard Interval

Wi-Fi Direct®

Wi-Fi Enhanced Open™ 2018-04

Wi-Fi Optimized Connectivity™ 2018

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