



# 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: WFA90507**

## Product Info

Date of Certification	July 1, 2019
Company	Samsung Electronics
Product Name	SM-N976U
Product Model Variant	2019-07-01 (WFA90507 - 9080686)
Model Number	SM-N976U
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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Certification ID: WFA90507



## Summary of Certifications (continued)

Page 2 of 4

### CLASSIFICATION

### CERTIFICATION

#### Security

WPA3™-Personal 2018-04  
WPA™-Enterprise  
WPA™-Personal

#### Spectrum & Regulatory Features

Spectrum & Regulatory



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Certification ID: WFA90507



Role: Station

Page 3 of 4

## 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

### WMM®-Power Save (continued)

Legacy Power Save  
Unschedule auto PS

### 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

### WPA2™-Enterprise 2018-04

EAP methods  
EAP AKA  
EAP AKA Prime  
EAP SIM  
EAP TLS  
EAP TTLS  
PEAPv0  
PEAPv1

### Protected Management Frames

### Spectrum & Regulatory

802.11h

### WPA2™-Personal 2018-04

### Voice-Enterprise

### WPA3™-Enterprise 2018-04

### WMM®

EAP methods  
EAP AKA  
EAP AKA Prime  
EAP SIM  
EAP TLS

### WMM®-Admission Control

### WMM®-Power Save



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Page 4 of 4

## WPA3™-Enterprise 2018-04 (continued)

EAP TTLS  
PEAPv0  
PEAPv1

## Wi-Fi CERTIFIED™ ac (continued)

Short Guard Interval  
LDPC Tx  
SU beamformee

## WPA3™-Personal 2018-04

## Wi-Fi CERTIFIED™ b

## WPA™-Enterprise

## Wi-Fi CERTIFIED™ g

## WPA™-Personal

## Wi-Fi CERTIFIED™ n

## 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

A-MPDU Tx  
OBSS on Extension Channel  
Short Guard Interval

## Wi-Fi Direct®

## Wi-Fi Enhanced Open™ 2018-04

## Wi-Fi Aware™

## Wi-Fi Optimized Connectivity™ 2018

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