



# 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: WFA83218**

## Product Info

|                       |                                 |
|-----------------------|---------------------------------|
| Date of Certification | October 29, 2019                |
| Company               | Samsung Electronics             |
| Product Name          | SM-G977B                        |
| Product Model Variant | 2019-10-29 (WFA83218 - 9914776) |
| Model Number          | SM-G977B                        |
| Category              | Phones                          |
| Sub-category          | Smartphone                      |

## Summary of Certifications

| CLASSIFICATION         | CERTIFICATION   |
|------------------------|---|
| Alternative topologies | Wi-Fi Direct®   |
| Network management     | WMM®<br>WMM®-Admission Control<br>WMM®-Power Save<br>Wi-Fi Agile Multiband™<br>Wi-Fi Optimized Connectivity™ 2018   |
| Performance            | Voice-Enterprise  |
| Security               | Protected Management Frames<br>WPA2™-Enterprise 2018-04<br>WPA2™-Personal 2018-04<br>WPA3™-Enterprise 2018-04<br>WPA3™-Personal 2019-08<br>Wi-Fi Enhanced Open™ 2018-04 |
| Wi-Fi (MAC/PHY)        | 2.4 GHz Spectrum Capabilities<br>5 GHz Spectrum Capabilities<br>Spectrum & Regulatory<br>Wi-Fi CERTIFIED™ a<br>Wi-Fi CERTIFIED™ ac<br>Wi-Fi CERTIFIED™ b                |

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## Summary of Certifications (continued)

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### CLASSIFICATION

Wi-Fi (MAC/PHY)

### CERTIFICATION

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

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Role: Station

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## Wi-Fi Components

### Wi-Fi Component Operating System

Android, version:10.0

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

EAP TTLS  
PEAPv0  
PEAPv1

## Wi-Fi CERTIFIED™ n (continued)

OBSS on Extension Channel  
Short Guard Interval

## WPA3™-Personal 2019-08

## Wi-Fi Direct®

## Wi-Fi Agile Multiband™

## Wi-Fi Enhanced Open™ 2018-04

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

## Wi-Fi Optimized Connectivity™ 2018

## 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  
Short Guard Interval  
LDPC Tx  
SU beamformee

## Wi-Fi CERTIFIED™ b

## Wi-Fi CERTIFIED™ g

## Wi-Fi CERTIFIED™ n

A-MPDU Tx

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