



# 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: WFA81251**

## Product Info

Date of Certification	January 13, 2021
Company	Samsung Electronics
Product Name	SM-G975U1
Product Model Variant	2021-01-11
Model Number	SM-G975U1
Category	Phones
Sub-category	Smartphone

## Summary of Certifications

CLASSIFICATION	CERTIFICATION
Access	Wi-Fi Protected Setup™
Applications & Services	Voice-Enterprise Wi-Fi Aware™
Connectivity	2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities Wi-Fi CERTIFIED 6® 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™ 2020-02
Optimization	WMM® WMM®-Admission Control WMM®-Power Save Wi-Fi Agile Multiband™ Wi-Fi Optimized Connectivity™ 2018
Security	Protected Management Frames



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## Summary of Certifications (continued)

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### CLASSIFICATION

### CERTIFICATION

#### Security

WPA2™-Enterprise 2018-04  
WPA2™-Personal 2020-02  
WPA3™-Enterprise 2020-02  
WPA3™-Personal 2020-02  
WPA™-Enterprise  
WPA™-Personal

#### Spectrum & Regulatory Features

Spectrum & Regulatory



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Role: Station

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## Wi-Fi Components

### Wi-Fi Component Operating System

Android, version:11.0

### Wi-Fi Component Firmware

100.11.3.1 13.48.6

### 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 FAST-MSCHAPv2  
EAP SIM  
EAP TLS  
EAP TTLS  
PEAPv0  
PEAPv1

### Protected Management Frames

### Spectrum & Regulatory

802.11h

### Voice-Enterprise

### WPA2™-Personal 2020-02

### WMM®

### WPA3™-Enterprise 2020-02

### WMM®-Admission Control

EAP methods  
EAP AKA  
EAP AKA Prime  
EAP FAST-MSCHAPv2

### WMM®-Power Save



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

EAP SIM  
EAP TLS  
EAP TTLS  
PEAPv0  
PEAPv1

## WPA3™-Personal 2020-02

## WPA™-Enterprise

## WPA™-Personal

## Wi-Fi Agile Multiband™

## Wi-Fi Aware™

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

## Wi-Fi CERTIFIED 6®

A-MPDU with A-MSDU  
BSRP Trigger frame  
DL Mu PPDU multi-tone  
DL MU-MIMO  
Individual Target Wake Time  
LDPC Rx  
LDPC Tx  
MCS 8-9 Rx  
MCS 8-9 Tx  
MCS 10-11 Rx  
MCS 10-11 Tx

## Wi-Fi CERTIFIED 6® (continued)

MU EDCA Parameter Set element  
MU-BAR Trigger frame  
MU-RTS Trigger frame  
OM Control field Tx  
OM subfield in A-Control field  
Operating Mode indication  
SU beamformee  
UL OFDMA  
UL TB PPDU multi-tone

## 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  
OBSS on Extension Channel  
Power Management  
Short Guard Interval



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Wi-Fi Direct®

Wi-Fi Enhanced Open™ 2020-02

Wi-Fi Optimized Connectivity™ 2018

Wi-Fi Protected Setup™

Pushbutton