



# 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: WFA102944**

## Product Info

Date of Certification	December 16, 2020
Company	Samsung Electronics
Product Name	SM-G998U
Product Model Variant	V1
Model Number	SM-G998U
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 6 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



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## Summary of Certifications (continued)

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### CLASSIFICATION

### CERTIFICATION

#### Security

Protected Management Frames

WPA2™-Enterprise 2018-04

WPA2™-Personal 2020-02

WPA3™-Enterprise 2018-04

WPA3™-Personal 2020-02

WPA3™-Personal 2020-12

WPA™-Enterprise

WPA™-Personal

#### Spectrum & Regulatory Features

Spectrum & Regulatory



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Role: Access Point

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## Wi-Fi Components

### Wi-Fi Component Operating System

Android, version:11.0

### Wi-Fi Component Firmware

20.25.294.1

### 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

### WMM®

### WPA2™-Personal 2020-02

### WPA3™-Personal 2020-12

### Wi-Fi Agile Multiband™

### Wi-Fi CERTIFIED 6®

DL OFDMA  
Individual Target Wake Time

### Wi-Fi CERTIFIED 6® (continued)

Operating Mode indication  
SU-MIMO  
UL OFDMA

### Wi-Fi CERTIFIED™ a

### Wi-Fi CERTIFIED™ ac

### Wi-Fi CERTIFIED™ b

### Wi-Fi CERTIFIED™ g

### Wi-Fi CERTIFIED™ n

OBSS on Extension Channel  
Short Guard Interval  
A-MPDU Tx



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Role: Station

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### Wi-Fi Components

#### Wi-Fi Component Operating System

Android, version:11.0

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20.25.294.1

#### RF Architecture

Bands Supported	Transmit (Tx)	Receive (Rx)
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5 GHz	2	2
6 GHz	2	2

### Certifications

#### 2.4 GHz Spectrum Capabilities

20 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

#### 6 GHz Spectrum Capabilities

20 MHz Channel Width in 6 GHz

40 MHz Channel Width in 6 GHz

80 MHz Channel Width in 6 GHz

#### Protected Management Frames

#### Spectrum & Regulatory

#### Voice-Enterprise

#### WMM®

#### WMM®-Admission Control

#### WMM®-Power Save

#### WPA2™-Enterprise 2018-04

EAP methods

#### WPA2™-Personal 2020-02

#### WPA3™-Enterprise 2018-04

EAP methods

EAP AKA

EAP AKA Prime

EAP SIM

EAP TLS

EAP TTLS

PEAPv0

PEAPv1

192-bit security

192-bit security RSA 3K with the

TLS\_ECDHE\_RSA\_WITH\_AES\_256\_GCM\_SHA384

cipher suite



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Role: Station

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WPA3™-Personal 2020-02

Wi-Fi CERTIFIED™ n

WPA™-Enterprise

Wi-Fi Direct®

WPA™-Personal

Wi-Fi Enhanced Open™ 2020-02

Wi-Fi Agile Multiband™

Wi-Fi Optimized Connectivity™ 2018

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

Fast Transition OTA on WPA2-Enterprise

Wi-Fi Protected Setup™

Pushbutton

Wi-Fi Aware™

Wi-Fi CERTIFIED 6®

BSRP Trigger frame  
DL Mu PPDU multi-tone  
DL MU-MIMO  
MU EDCA Parameter Set element  
MU-BAR Trigger frame  
MU-RTS Trigger frame  
SU beamformee  
UL OFDMA  
UL TB PPDU multi-tone  
Wi-Fi 6E

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ ac

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g