



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: WFA81312

Product Info

Date of Certification	November 1, 2019
Company	Samsung Electronics
Product Name	SM-G970XU
Product Model Variant	2019-11-01 (WFA81312 - 9926201)
Model Number	SM-G970XU
Category	Phones
Sub-category	Smartphone

Summary of Certifications

CLASSIFICATION	CERTIFICATION
Applications & Services	Voice-Enterprise
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™ 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



Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA81312



Summary of Certifications (continued)

Page 2 of 4

CLASSIFICATION

CERTIFICATION

Security

WPA3™-Personal 2019-08

WPA™-Enterprise

WPA™-Personal

Spectrum & Regulatory Features

Spectrum & Regulatory



Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA81312



Role: Station

Page 3 of 4

Wi-Fi Components

Wi-Fi Component Operating System

Android, version:10.0

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

WPA2™-Enterprise 2018-04 (continued)

EAP TLS

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™-Personal 2018-04

WPA3™-Enterprise 2018-04

EAP TLS

Protected Management Frames

WPA3™-Personal 2019-08

Spectrum & Regulatory

WPA™-Enterprise

Voice-Enterprise

WPA™-Personal

WMM®

Wi-Fi Agile Multiband™

WMM®-Admission Control

Wi-Fi CERTIFIED 6®

WMM®-Power Save

A-MPDU with A-MSDU
BSRP Trigger frame
DL Mu PPDU multi-tone
DL MU-MIMO
Individual Target Wake Time

WPA2™-Enterprise 2018-04

EAP methods



Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA81312



Role: Station

Page 4 of 4

Wi-Fi CERTIFIED 6® (continued)

LDPC Rx
LDPC Tx
MCS 8-9 Rx
MCS 8-9 Tx
MCS 10-11 Rx
MCS 10-11 Tx
MU EDCA Parameter Set element
MU-BAR Trigger frame
MU-RTS Trigger frame
OM Control field Tx
Operating Mode indication
SU beamformee
UL OFDMA
UL TB PPDU multi-tone

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ ac

Short Guard Interval

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

Wi-Fi Direct®

Wi-Fi Enhanced Open™ 2018-04

Wi-Fi Optimized Connectivity™ 2018