



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: WFA81374

Product Info

Date of Certification	October 30, 2019
Company	Samsung Electronics
Product Name	SM-G975XN
Product Model Variant	2019-10-30 (WFA81374 - 9919154)
Model Number	SM-G975XN
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: WFA81374



Summary of Certifications (continued)

Page 2 of 4

CLASSIFICATION	CERTIFICATION
Security	WPA3™-Personal 2019-08
Spectrum & Regulatory Features	Spectrum & Regulatory



Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA81374



Role: Station

Page 3 of 4

Wi-Fi Components

Wi-Fi Component Operating System

Android, version:10.0

Wi-Fi Component Firmware

18.35.220

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



Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA81374



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Page 4 of 4

WPA3™-Enterprise 2018-04 (continued)

EAP TTLS
PEAPv0
PEAPv1

Wi-Fi CERTIFIED 6® (continued)

UL TB PPDU multi-tone

Wi-Fi CERTIFIED™ a

WPA3™-Personal 2019-08

Wi-Fi Agile Multiband™

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

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 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
MU EDCA Parameter Set element
MU-BAR Trigger frame
MU-RTS Trigger frame
Operating mode control field
Operating mode indication
SU beamformee
UL OFDMA

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

A-MPDU Tx
OBSS on Extension Channel
Power Management
Short Guard Interval

Wi-Fi Direct®

Wi-Fi Enhanced Open™ 2018-04

Wi-Fi Optimized Connectivity™ 2018