



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: WFA90512

Product Info

| | |
|-----------------------|----------------------------------|
| Date of Certification | November 18, 2019 |
| Company | Samsung Electronics |
| Product Name | SM-N975F |
| Product Model Variant | 2019-11-18 (WFA90512 - 10094478) |
| Model Number | SM-N975F |
| Category | Phones |
| Sub-category | Smartphone |

Summary of Certifications

| CLASSIFICATION | CERTIFICATION |
|-------------------------|--|
| 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™ 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 |



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Summary of Certifications (continued)

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| CLASSIFICATION | CERTIFICATION |
|--------------------------------|--|
| Security | WPA3™-Enterprise 2018-04 WPA3™-Personal 2019-08 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:10.0

Wi-Fi Component Firmware

18.40.15.1

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

WPA3™-Personal 2019-08

WPA™-Enterprise

WPA™-Personal

Wi-Fi Agile Multiband™

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

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

Wi-Fi CERTIFIED 6® (continued)

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

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



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Wi-Fi CERTIFIED™ n (continued)

Short Guard Interval

Wi-Fi Direct®

Wi-Fi Enhanced Open™ 2018-04

Wi-Fi Optimized Connectivity™ 2018