



Wi-Fi CERTIFIED™ Interoperability 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: WFA99998

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Date of Last Certification	June 02, 2020
Company	Samsung Electronics
Product	SM-G988Q
Model Number	SM-G988Q
Product Identifier(s)	
Category	Phones
Subcategory	Smartphone, multi-mode (Wi-Fi and other)
Hardware Version	Product: REV1.0, Wi-Fi Component: REV1.0
Firmware Version	Product: 001, Wi-Fi Component: 18.35.433.1
Operating System	Android, version: 10.0
Frequency Band(s)	2.4 GHz, 5 GHz

Summary of Certifications

CLASSIFICATION	PROGRAM
Connectivity	Wi-Fi CERTIFIED 6™
	Wi-Fi CERTIFIED™ a, b, g, n, ac
	WPA™ – Enterprise, Personal
	WPA2™ – Enterprise, Personal
	WPA3™ – Enterprise, Personal
	Wi-Fi Direct®
	Wi-Fi Enhanced Open™
Optimization	Wi-Fi Agile Multiband™
	Wi-Fi Optimized Connectivity™
	WMM®
	WMM®-Admission Control
	WMM®-Power Save
Applications & Services	Voice-Enterprise
	Wi-Fi Aware™



Security

WPA™ – Enterprise, Personal
WPA2™ – Enterprise, Personal
WPA3™ – Enterprise, Personal (Aug 2019)
EAP Type(s)
EAP-TLS
EAP-TTLS/MSCHAPv2
PEAPv0/EAP-MSCHAPv2
PEAPv1/EAP-GTC
EAP-SIM
EAP-AKA
EAP-AKA Prime
Protected Management Frames

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

2.4 GHz, 5 GHz
2 Spatial Streams 2.4 GHz
2 Spatial Streams 5 GHz
Short Guard Interval
TX A-MPDU
40 MHz operation in 5 GHz

Wi-Fi CERTIFIED™ ac

2 Spatial Streams 5 GHz
Rx MCS 8-9 (256-QAM)
Rx A-MPDU of A-MSDU
Low Density Parity Check coding
Tx SU beamformee
Rx DL MU-MIMO
Extended 5 GHz Channel Support

Wi-Fi CERTIFIED 6™

2 Spatial Streams 2.4 GHz Rx
2 Spatial Streams 5 GHz Rx
Maximum Supported Channel Width (20, 40, 80 MHz)
DL MU-MIMO
DL SU Beamforming
UL OFDMA
DL OFDMA
Target Wake Time (TWT)
MCS 8-9 Rx
MCS 10-11 Rx
MU-BAR trigger frame
MU-RTS /CTS trigger frame

Wi-Fi CERTIFIED 6™ (continued)

DL MU-PPDU with basic trigger frame
Buffer Status Report (BSRP) trigger frame
MU EDCA Parameter set
Multiple-BSSID Set
Low Density Parity Check (LDPC) coding

Wi-Fi Direct®

2.4 GHz, 5 GHz

Wi-Fi Enhanced Open™

Wi-Fi Agile Multiband™

Steer to Cellular Data
Fast Transition: WPA2-Enterprise and WPA2-Personal

Wi-Fi Optimized Connectivity™

WMM®

WMM®-Admission Control

WMM®-Power Save

Voice-Enterprise

Wi-Fi Aware™

Device Ranging
Data Transfer (Native)
Bluetooth® Low Energy Discovery Support

Spectrum and Regulatory Features

802.11h