



This certificate lists the features that have successfully completed Wi-Fi Alliance interoperability testing. Learn more: www.wi-fi.org/certification/programs

Certification ID: WFA75250

Product Info

Date of Certification	February 28, 2018
Company	Samsung Electronics
Product Name	SM-G960U1
Product Model Variant	2018-02-28 (WFA75250 - 6963550)
Model Number	SM-G960U1
Category	Phones
Sub-category	Smartphone

Summary of Certifications

CLASSIFICATION	CERTIFICATION
Applications & Services	Miracast® Voice-Enterprise
Connectivity	2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ ac Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n Wi-Fi Direct®
Optimization	WMM® WMM®-Admission Control WMM®-Power Save
Security	Protected Management Frames WPA2 [™] -Enterprise WPA [™] -Personal 2017-10 WPA [™] -Enterprise WPA [™] -Personal



Certification ID: WFA75250



Summary of Certifications (continued) Page 2 of 5 CLASSIFICATION CERTIFICATION Spectrum & Regulatory Spectrum & Regulatory Features Spectrum & Regulatory



Certification ID: WFA75250



Role: Station Page 3 of 5 Wi-Fi Components Wi-Fi Component Operating System RF Architecture Android, version:8.0 Bands Supported Transmit (Tx) Receive (Rx) 2.4 GHz 2 2 3.35 GHz 2 2 Certifications Vi-Fi Component Firmware 2.4 GHz 2 2 2.4 GHz 2 2 2 2 Certifications VMM@-Power Save (continued) Vertice (Continued) Vertice (Continued) 20 MHz Channel Width in 2.4 GHz Legacy Power Save Unschedule auto PS Vertice (Continued) Vertice (Continued) 20 MHz Channel Width in 5 GHz WPA2 TM -Enterprise Vertice (Continued) Vertice (Continued) 20 MHz Channel Width in 5 GHz EAP methods EAP AKA EAP SiM EAP SiM 20 MHz Channel Width in 5 GHz EAP MacA Prime EAP SiM EAP SiM EAP SiM EAP SiM 20 MHz Channel Width in 5 GHz EAP MacA Prime EAP SiM EAP SiM <th></th> <th></th> <th></th> <th></th>					
Wi-Fi Component Operating System Android, version: 8.0RF ArchitectureBands SupportedTransmit (Tx)Receive (Rx)2.4 GHz223.35GHz22CertificationsVMMM®-Power Save Unschedule auto PS20 MHz Channel Width in 2.4 GHz 40 MHz Channel Width in 5 GHzVMMM®-Power Save Unschedule auto PS20 MHz Channel Width in 5 GHz 40 MHz Channel Width in 5 GHz 80 MHz Channel Width in 5 GHzVMPA2 TM -Enterprise20 MHz Channel Width in 5 GHz 80 MHz Channel Width in 5 GHz 80 MHz Channel Width in 5 GHzEAP methods EAP AKA EAP AKA EAP AKA PEAPV0 PEAPV1802.11hWPA2 TM -Personal z017-10	Role: Station	Page 3 of 5			
Android, version:8.0 Bands Supported Transmit (Tx) Receive (Rx) 2.4 GHz 2 2 3.35 GHz 2 2 Certifications WMM®-Power Save (continued) 20 MHz Channel Width in 2.4 GHz 40 MHz Channel Width in 2.4 GHz 20 MHz Channel Width in 2.4 GHz 20 MHz Channel Width in 5 GHz A A A Prime EAP methods EAP AKA Bands Supported Transmit (Tx) Receive (Rx) VPA2TM-Enterprise Unschedule auto PS VERTURE 20 MHz Channel Width in 5 GHz A A A Prime EAP TILS Protected Management Frames Spectrum & Regulatory PEAPv0 PEAPv0 PEAPv0 PEAPv0	Wi-Fi Components				
Wi-Fi Component Firmware 13.35Bands SupportedTransmit (Tx)Receive (Rx)2.4 GHz225 GHz22Certifications2.4 GHz Spectrum CapabilitiesWMM@-Power Save (continued)20 MHz Channel Width in 2.4 GHz 40 MHz Channel Width in 2.4 GHz20 MHz Channel Width in 2.4 GHz 40 MHz Channel Width in 5.4 GHz 40 MHz Channel Width in 5.6 Hz 80 MHz Channel Width in 5 GHzEAP methods EAP AKA EAP AKA Prime EAP TLS EAP TTLS PEAPv0 PEAPv1Uncenter to the text of the text of tex	Wi-Fi Component Operating System	RF Architecture			
Wi-Fi Component Firmware 13.35 2.4 GHz 2 2 13.35 2 GHz 2 2 5 GHz 2 2 2 Certifications VMM®-Power Save (continued) 20 MHz Channel Width in 2.4 GHz Legacy Power Save VIII Channel Width in 2.4 GHz 40 MHz Channel Width in 2.4 GHz Legacy Power Save VIII Schedule auto PS 5 GHz Spectrum Capabilities VPA2 TM -Enterprise EAP Mathematical Schedule auto PS 20 MHz Channel Width in 5 GHz EAP methods = EAP AKA EAP AKA 40 MHz Channel Width in 5 GHz EAP AKA EAP AKA 80 MHz Channel Width in 5 GHz EAP AKA EAP AKA 80 MHz Channel Width in 5 GHz EAP TLS EAP SIM EAP SIM EAP TLS EAP TLS Spectrum & Regulatory PEAPv0 PEAPv1 802.11h WPA2 TM -Personal 2017-10 VIII S	Android, version:8.0	Bands Supported	Transmit (Tx)	Receive (Rx)	
13.35 5 GHz 2 2 Certifications 2.4 GHz Spectrum Capabilities WMM®-Power Save (continued) 20 MHz Channel Width in 2.4 GHz Legacy Power Save Unschedule auto PS 40 MHz Channel Width in 2.4 GHz Legacy Power Save Unschedule auto PS 5 GHz Spectrum Capabilities WPA2™-Enterprise 20 MHz Channel Width in 5 GHz EAP methods 40 MHz Channel Width in 5 GHz EAP AKA 80 MHz Channel Width in 5 GHz EAP AKA 80 MHz Channel Width in 5 GHz EAP AKA 80 MHz Channel Width in 5 GHz EAP AKA 80 MHz Channel Width in 5 GHz EAP TLS 90 Hz Channel Width in 5 GHz EAP AKA 80 MHz Channel Width in 5 GHz EAP TLS 90 Hz Channel Width in 5 GHz EAP TLS 91 EAP TLS EAP TLS 92 APV0 PEAPV0 92 APV1 B02:11h WPA2™-Personal 2017-10 WPA2™-Personal 2017-10	Wi-Fi Component Firmware				
Certifications 2.4 GHz Spectrum Capabilities WMM®-Power Save (continued) 20 MHz Channel Width in 2.4 GHz Legacy Power Save 40 MHz Channel Width in 2.4 GHz Legacy Power Save 40 MHz Channel Width in 2.4 GHz Legacy Power Save 5 GHz Spectrum Capabilities WPA2 TM -Enterprise 20 MHz Channel Width in 5 GHz EAP methods 20 MHz Channel Width in 5 GHz EAP methods 80 MHz Channel Width in 5 GHz EAP TMENDAL 90 MHz Channel Width in 5 GHz EAP TMENDAL 80 MHz Channel Width in 5 GHz EAP TMENDAL 80 MHz Channel Width in 5 GHz EAP TLS 80 MHz Channel Width in 5 GHz EAP AKA 80 MHz Channel Width in 5 GHz EAP TLS 80 MHz Channel Width in 5 GHz EAP TLS 80 Hz Channel Width in 5 GHz EAP TLS 80 Hz Channel Width in 5 GHz PEAPV0 9 EAP V0 PEAPV0 9 EAPV1 PEAPV1 802.11h WPA2 TM -Personal 2017-10	13.35				
2.4 GHz Spectrum Capabilities WMM®-Power Save (continued) 20 MHz Channel Width in 2.4 GHz Legacy Power Save 40 MHz Channel Width in 2.4 GHz Legacy Power Save 5 GHz Spectrum Capabilities WPA2™-Enterprise 20 MHz Channel Width in 5 GHz EAP methods 40 MHz Channel Width in 5 GHz EAP methods 80 MHz Channel Width in 5 GHz EAP methods 90 MHz Channel Width in 5 GHz EAP methods 80 MHz Channel Width in 5 GHz EAP MARA 80 MHz Channel Width in 5 GHz EAP AKA 80 MHz Channel Width in 5 GHz EAP AKA 80 MHz Channel Width in 5 GHz EAP AKA 80 MHz Channel Width in 5 GHz EAP AKA 80 MHz Channel Width in 5 GHz EAP AKA 80 MHz Channel Width in 5 GHz EAP AKA 80 MHz Channel Width in 5 GHz EAP ILS 80 Zhi M EAP VI 80 Zhi M PEAPv0 PEAPv1 PEAPv1 80 Zhi M WPA2™-Personal 2017-10		5 GHz	2	2	
2.4 GHz Spectrum Capabilities WMM®-Power Save (continued) 20 MHz Channel Width in 2.4 GHz Legacy Power Save 40 MHz Channel Width in 2.4 GHz Legacy Power Save 5 GHz Spectrum Capabilities WPA2™-Enterprise 20 MHz Channel Width in 5 GHz EAP methods 40 MHz Channel Width in 5 GHz EAP methods 80 MHz Channel Width in 5 GHz EAP methods 90 MHz Channel Width in 5 GHz EAP methods 80 MHz Channel Width in 5 GHz EAP MARA 80 MHz Channel Width in 5 GHz EAP AKA 80 MHz Channel Width in 5 GHz EAP AKA 80 MHz Channel Width in 5 GHz EAP AKA 80 MHz Channel Width in 5 GHz EAP AKA 80 MHz Channel Width in 5 GHz EAP AKA 80 MHz Channel Width in 5 GHz EAP AKA 80 MHz Channel Width in 5 GHz EAP ILS 80 Zhi M EAP VI 80 Zhi M PEAPv0 PEAPv1 PEAPv1 80 Zhi M WPA2™-Personal 2017-10	Cartifications				
20 MHz Channel Width in 2.4 GHz Legacy Power Save 40 MHz Channel Width in 2.4 GHz Unschedule auto PS 5 GHz Spectrum Capabilities WPA2 TM -Enterprise 20 MHz Channel Width in 5 GHz EAP methods 40 MHz Channel Width in 5 GHz EAP methods 80 MHz Channel Width in 5 GHz EAP MKA 80 MHz Channel Width in 5 GHz EAP MtA 80 MHz Channel Width in 5 GHz EAP MtA 80 MHz Channel Width in 5 GHz EAP MtA 80 MHz Channel Width in 5 GHz EAP AtKA 80 MHz Channel Width in 5 GHz EAP TLS BO MHz Channel Width in 5 GHz EAP TLS 80 MHz Channel Width in 5 GHz EAP TLS 80 MHz Channel Width in 5 GHz EAP TLS BO MHz Channel Width in 5 GHz EAP TLS BO ME Channel Width in 5 GHz EAP TLS BO ME Channel Width in 5 GHz PEAPv0 PEAPv1 WPA2 TM -Personal 2017-10					
40 MHz Channel Width in 2.4 GHz Unschedule auto PS 5 GHz Spectrum Capabilities WPA2 TM -Enterprise 20 MHz Channel Width in 5 GHz EAP methods 40 MHz Channel Width in 5 GHz EAP methods 80 MHz Channel Width in 5 GHz EAP AKA 80 MHz Channel Width in 5 GHz EAP AKA Protected Management Frames EAP TLS Spectrum & Regulatory PEAPv0 802.11h WPA2 TM -Personal 2017-10	2.4 GHz Spectrum Capabilities	WMM®-Power Sav	ve (continued)	_	
5 GHz Spectrum CapabilitiesWPA2™-Enterprise20 MHz Channel Width in 5 GHz 40 MHz Channel Width in 5 GHzEAP methods EAP AKA EAP AKA EAP AKA Prime EAP SIM EAP TLS 	20 MHz Channel Width in 2.4 GHz	Legacy Power Save			
20 MHz Channel Width in 5 GHz EAP methods 40 MHz Channel Width in 5 GHz EAP AKA 80 MHz Channel Width in 5 GHz EAP AKA Protected Management Frames EAP TLS Spectrum & Regulatory PEAPv0 802.11h WPA2™-Personal 2017-10	40 MHz Channel Width in 2.4 GHz	Unschedule auto PS			
20 MHz Channel Width in 5 GHz EAP methods 40 MHz Channel Width in 5 GHz EAP AKA 80 MHz Channel Width in 5 GHz EAP AKA Protected Management Frames EAP TLS Spectrum & Regulatory PEAPv0 802.11h WPA2™-Personal 2017-10				_	
40 MHz Channel Width in 5 GHz 80 MHz Channel Width in 5 GHz Protected Management Frames Spectrum & Regulatory 802.11h ADDE Sectors Se	5 GHz Spectrum Capabilities	WPA2 ^{IIII} -Enterpris	Se	_	
80 MHz Channel Width in 5 GHz EAP AKA Prime Protected Management Frames EAP TLS Spectrum & Regulatory PEAPv0 802.11h WPA2™-Personal 2017-10					
Protected Management Frames EAP TLS Spectrum & Regulatory PEAPv0 802.11h WPA2™-Personal 2017-10					
Protected Management Frames EAP TTLS Spectrum & Regulatory PEAPv0 802.11h WPA2™-Personal 2017-10		EAP SIM			
Spectrum & Regulatory PEAPv0 802.11h PEAPv1 WPA2™-Personal 2017-10	Protected Management Frames				
802.11h WPA2™-Personal 2017-10		-			
WPA2™-Personal 2017-10	Spectrum & Regulatory	PEAPv1			
Voico Entorpriso	802.11h			_	
Voice-Enterprise WPA™-Enterprise		WPA2™-Personal	2017-10		
	Voice-Enterprise	WPA™-Enterprise)		

WMM®

WMM®-Admission Control

WMM®-Power Save

WPA™-Personal

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ ac



Certification ID: WFA75250



Page 4 of 5

Role: Station

Wi-Fi CERTIFIED™ ac (continued) Extended 5 GHz Channel Support A-MPDU with A-MSDU DL MU-MIMO LDPC Rx MCS 8-9 Rx Short Guard Interval STBC LDPC Tx SU beamformee Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n STBC A-MPDU Tx HT Duplicate Mode OBSS on Extension Channel RIFS Short Guard Interval Wi-Fi Direct®



Certification ID: WFA75250



Role: Source			Page 5 of 5	
Wi-Fi Components				
Wi-Fi Component Operating System	RF Architecture			
Android, version:8.0	Bands Supported	Transmit (Tx)	Receive (Rx)	
Wi-Fi Component Firmware 13.35	2.4 GHz	2	2	
10.00	5 GHz	2	2	
Certifications				
Miracast®				
HDCP Encryption				