



## 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](http://www.wi-fi.org/certification/programs)



**Certification ID: WFA91860**

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<b>Date of Last Certification</b>	May 21, 2020
<b>Company</b>	Samsung Electronics
<b>Product</b>	SM-W2020
<b>Model Number</b>	SM-W2020
<b>Product Identifier(s)</b>	
<b>Category</b>	Phones
<b>Subcategory</b>	Smartphone, multi-mode (Wi-Fi and other)
<b>Hardware Version</b>	Product: REV0.1, Wi-Fi Component: REV0.3
<b>Firmware Version</b>	Product: F407N.001, Wi-Fi Component: 100.14.18 18.38.8.2
<b>Operating System</b>	Android, version: 10.0
<b>Frequency Band(s)</b>	2.4 GHz, 5 GHz

### Summary of Certifications

<b>CLASSIFICATION</b>	<b>PROGRAM</b>
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®
Optimization	Wi-Fi Agile Multiband™
	Wi-Fi Optimized Connectivity™
	WMM®
	WMM®-Admission Control
Applications & Services	WMM®-Power Save
	Voice-Enterprise
	Wi-Fi Aware™



**Security**

WPA™ – Enterprise, Personal  
WPA2™ – Enterprise, Personal  
WPA3™ – Enterprise, Personal (Jun 2018)  
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)  
MU-BAR trigger frame  
MU-RTS /CTS trigger frame  
DL MU-PPDU with basic trigger frame  
Buffer Status Report (BSRP) trigger frame

**Wi-Fi CERTIFIED 6™ (continued)**

MU EDCA Parameter set  
Multiple-BSSID Set  
Low Density Parity Check (LDPC) coding

**Wi-Fi Direct®**

2.4 GHz, 5 GHz

**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