



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

Certification ID: WFA83133

Product Info

Date of Certification July 24, 2019

Company Google, Inc.

Product Name G020J

Product Model Variant 2019-07-24 (WFA83133 - merged)

Model Number G020J

Category Phones

Sub-category Smartphone

Summary of Certifications

CLASSIFICATION CERTIFICATION

Access Wi-Fi Protected Setup™

Applications & Services Voice-Enterprise

Wi-Fi Aware™

Connectivity 2.4 GHz Spectrum Capabilities

5 GHz Spectrum Capabilities

Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n

Wi-Fi Direct®

Optimization TDLS

WMM®

WMM®-Admission Control

WMM®-Power Save

Security Protected Management Frames

WPA2[™]-Enterprise 2018-04 WPA2[™]-Personal 2018-04 WPA3[™]-Enterprise 2018-04





Certification ID: WFA83133

Summary	of	Certificat	tions (cont	inued)
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CLASSIFICATION CERTIFICATION

Security WPA3™-Personal 2019-04

WPA™-Enterprise WPA™-Personal

Spectrum & Regulatory

Features

Spectrum & Regulatory





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Role: Access Point	Page 3 of 5

Wi-Fi Components

Wi-Fi Component Operating System

Android, version:Q

Wi-Fi Component Firmware

3.2.0.60.0

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

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

Protected Management Frames

Spectrum & Regulatory

802.11h

WMM®

WPA2™-Personal 2018-04

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ ac

Wi-Fi CERTIFIED™ ac (continued)

A-MPDU with A-MSDU

LDPC Rx

LDPC Tx

MCS 8-9 Rx

Short Guard Interval

STBC

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

OBSS on Extension Channel Short Guard Interval

STBC

A-MPDU Tx





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Role: Station Page 4 of		age 4 of 5	
Wi-Fi Components			
Wi-Fi Component Operating System	RF Architecture		
Android, version:Q	Bands Supported	Transmit (Tx)	Receive (Rx)
Wi-Fi Component Firmware 3.2.0.60.0	2.4 GHz	2	2
	5 GHz	2	2
Certifications			

ertifications	
2.4 GHz Spectrum Capabilities	WMM®-Power Save
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™-Enterprise 2018-04
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 Prime
	EAP SIM
Protected Management Frames	EAP TLS
Trotoctou managoment riamoo	EAP TTLS
Spectrum & Regulatory	PEAPv0 PEAPv1
802.11h	FEAFVI
802.1111	WPA2™-Personal 2018-04
TDLS	WPA3™-Enterprise 2018-04
Voice-Enterprise	EAP methods
	EAP AKA
WMM®	EAP AKA Prime
	EAP SIM
WMM®-Admission Control	EAP TLS





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Role: Station Page 5 of 5

WPA3[™]-Enterprise 2018-04 (continued)

EAP TTLS

PEAPv0

PEAPv1

192-bit security

192-bit security RSA 3K with the TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 cipher suite

WPA3™-Personal 2019-04

WPA™-Enterprise

WPA™-Personal

Wi-Fi Aware™

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ ac

Extended 5 GHz Channel Support

RTS with BW Signaling

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

Wi-Fi CERTIFIED™ n (continued)

STBC

A-MPDU Tx

OBSS on Extension Channel

Short Guard Interval

Wi-Fi Direct®

Wi-Fi Protected Setup™

PIN

Pushbutton