



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

Certification ID: WFA119877

Product Info

Date of Certification May 25, 2022

Company Google, Inc.

Product Name GE2AE, GFE4J

Product Model Variant GE2AE, GFE4J

Model Number GE2AE, GFE4J

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 Capabilities6 GHz Spectrum Capabilities

Wi-Fi CERTIFIED 6®
Wi-Fi CERTIFIED™ a
Wi-Fi CERTIFIED™ b
Wi-Fi CERTIFIED™ g
Wi-Fi CERTIFIED™ n

Wi-Fi Direct®

Wi-Fi Enhanced Open™ 2021-01

Optimization WMM®

WMM®-Admission Control

WMM®-Power Save Wi-Fi Agile Multiband™

Security Protected Management Frames





Certification ID: WFA119877

Summary of Certifications (continued)		Page 2 of 6
CLASSIFICATION	CERTIFICATION	
Security	WPA2 [™] -Enterprise 2018-04 WPA2 [™] -Personal 2021-01 WPA3 [™] -Enterprise 2020-02 WPA3 [™] -Personal 2020-02 WPA3 [™] -Personal 2020-12	
Spectrum & Regulatory Features	Spectrum & Regulatory	



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Role: Access Point Page 3 of 6

Wi-Fi Components

Wi-Fi Component Operating System

Android

Wi-Fi Component Firmware

20.25.485.7

RF Architecture

Bands Supported Transmit (Tx) Receive (Rx)

2.4 GHz 2

5 GHz 2 2

Certifications

2.4 GHz Spectrum Capabilities

20 MHz Channel Width in 2.4 GHz

Wi-Fi CERTIFIED 6® (continued)

Operating mode indication

SU-MIMO

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

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ ac

A-MPDU with A-MSDU

LDPC Rx

LDPC Tx

MCS 8-9 Rx

Short Guard Interval

WPA2™-Personal 2021-01

WPA3™-Personal 2020-02

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED 6®

A-MPDU with A-MSDU

LDPC Rx

WMM®

LDPC Tx

MCS 8-9 Rx

MCS 8-9 Tx

Wi-Fi CERTIFIED™ n

OBSS on Extension Channel

Short Guard Interval

A-MPDU Tx



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Role: Station		Pa	age 4 of 6
Wi-Fi Components			
Wi-Fi Component Operating System	RF Architecture		
Android	Bands Supported	Transmit (Tx)	Receive (Rx)
Wi-Fi Component Firmware	2.4 GHz	2	2
20.25.485.7	5 GHz	2	2
	6 GHz	2	2
Certifications			
2.4 GHz Spectrum Capabilities	Voice-Enterprise		
20 MHz Channel Width in 2.4 GHz	WMM®		
5 GHz Spectrum Capabilities	WMM®-Admission	n Control	
20 MHz Channel Width in 5 GHz	WMM®-Power Save		
40 MHz Channel Width in 5 GHz	Legacy Power Save		
80 MHz Channel Width in 5 GHz 160 MHz Channel Width in 5 GHz	Unschedule auto PS		
	WPA2™-Enterpris	e 2018-04	_
6 GHz Spectrum Capabilities	WI AZ -Enterpris	2010-04	
20 MHz Channel Width in 6 GHz	EAP methods EAP AKA		
40 MHz Channel Width in 6 GHz 80 MHz Channel Width in 6 GHz	EAP AKA Prime		
160 MHz Channel Width in 6 GHz	EAP SIM EAP TLS		
	EAP TTLS		
Protected Management Frames	PEAPv0 PEAPv1		
Spectrum & Regulatory			
802.11h	WPA2™-Personal	2021-01	





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Role: Station Page 5 of 6

WPA3™-Enterprise 2020-02

EAP methods

EAP AKA

EAP AKA Prime

EAP SIM

EAP TLS

EAP TTLS

PEAPv0

PEAPv1

192-bit security

192-bit security RSA 3K with the

TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384

cipher suite

Server Certificate Validation

WPA3™-Personal 2020-12

Wi-Fi Agile Multiband™

ANQP

ANQP-based Neighbor report

Beacon Report Measurement Active Mode

Beacon Report Measurement Passive Mode

BTM Query

Cellular Data capable

Fast Transition OTA on WPA2-Personal

Fast Transition OTA on WPA2-Enterprise

Wi-Fi Aware™

Wi-Fi CERTIFIED 6®

A-MPDU with A-MSDU

Beamforming sounding

BSRP Trigger frame

DL MU PPDU multi-tone

DL MU-MIMO

Wi-Fi CERTIFIED 6® (continued)

HE NDP

Individual Target Wake Time

LDPC Rx

LDPC Tx

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

Operating mode control field

Operating mode indication

SU beamformee

SU-MIMO

UL OFDMA

UL TB PPDU multi-tone

Wi-Fi 6E

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





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Role: Station	Page 6 of 6
Wi-Fi CERTIFIED™ n	
A-MPDU Tx	
OBSS on Extension Channel	
Short Guard Interval	
Wi-Fi Direct®	
Wi-Fi Enhanced Open™ 2021-01	
Wi-Fi Protected Setup™	
Pushbutton	
i ushbullon	