



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

Certification ID: WFA128707

Product Info

Date of Certification November 7, 2023

Company Samsung Electronics

Product Name SC-52E

Product Model Variant 2023-11-07

Model Number SC-52E

Category Phones

Sub-category Smartphone

Summary of Certifications

CLASSIFICATION CERTIFICATION

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 6® Release 2

Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ ac 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™

Wi-Fi Optimized Connectivity™ 2020

Wi-Fi QoS Management™



Features

Wi-Fi CERTIFIED™ Certificate



Certification ID: WFA128707

Summary of Certifications (continued)		Page 2 of 6
CLASSIFICATION	CERTIFICATION	
Security	Protected Management Frames WPA2™-Enterprise 2018-04 WPA2™-Personal 2021-01 WPA3™-Enterprise 2022-12 WPA3™-Personal 2022-06 WPA™-Enterprise WPA™-Personal	
Spectrum & Regulatory	Spectrum & Regulatory	



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Role: Access Point Page 3 of 6

Wi-Fi Components

Wi-Fi Component Operating System

Android 14.0

Wi-Fi Component Firmware

2.0.0.0.1460.1

RF Architecture

Bands Supported Transmit (Tx) Receive (Rx)

2.4 GHz 2 2

6 GHz 2 2

Certifications

2.4 GHz Spectrum Capabilities

20 MHz Channel Width in 2.4 GHz

6 GHz Spectrum Capabilities

20 MHz Channel Width in 6 GHz

40 MHz Channel Width in 6 GHz

80 MHz Channel Width in 6 GHz

160 MHz Channel Width in 6 GHz

Wi-Fi CERTIFIED 6® (continued)

LDPC Tx

MCS 8-9 Rx

MCS 8-9 Tx

MCS 10-11 Rx

MCS 10-11 Tx

SU beamformer

SU-MIMO

TXOP RTS Threshold

Wi-Fi 6E

Protected Management Frames

WMM®

WPA2™-Personal 2021-01

WPA3™-Personal 2022-06

Wi-Fi CERTIFIED 6®

A-MPDU with A-MSDU

Compressed Block Ack Rx (buffer size 256)

Compressed Block Ack Tx (buffer size 256)

LDPC Rx

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

A-MPDU Tx

Short Guard Interval

STBC

Wi-Fi Enhanced Open™ 2021-01





Certification ID: WFA128707			CERTIFIED	
Role: Station		Pa	age 4 of 6	
Wi-Fi Components				
Wi-Fi Component Operating System	RF Architecture			
Android 14.0	Bands Supported	Transmit (Tx)	Receive (Rx)	
Wi-Fi Component Firmware 2.0.0.0.1460.1	2.4 GHz	2	2	
2.0.0.0.1400.1	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	Control		
20 MHz Channel Width in 5 GHz	WMM®-Power Sav	'e		
40 MHz Channel Width in 5 GHz	Legacy Power Save			
160 MHz Channel Width in 5 GHz	Unschedule auto PS			
6 GHz Spectrum Capabilities	WPA2™-Enterpris	e 2018-04		
20 MHz Channel Width in 6 GHz 40 MHz Channel Width in 6 GHz	EAP methods EAP AKA			

40 MHz Channel Width in 6 GHz 80 MHz Channel Width in 6 GHz 160 MHz Channel Width in 6 GHz

Protected Management Frames

Spectrum & Regulatory

802.11h

EAP AKA Prime

EAP SIM

EAP TLS

EAP TTLS

PEAPv0

PEAPv1

WPA2™-Personal 2021-01



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WPA3™-Enterprise 2022-12

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

Fast Transition OTA on WPA3-Enterprise

Fast Transition OTA on WPA3-Enterprise transition mode

Server Certificate Validation

WPA3™-Personal 2022-06

Fast Transition OTA on WPA3-Personal

Fast Transition OTA on WPA3-Personal transition mode

WPA™-Enterprise

WPA™-Personal

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

Wi-Fi Aware™

Bluetooth® Low Energy

Bluetooth® Low Energy - Browser

Bluetooth® Low Energy - Provider

Bluetooth® Low Energy - Seeker

TCP/UDP NDP Initiator

TCP/UDP NDP Responder

Device Ranging

Wi-Fi Aware pairing

Unsynchronized Service Discovery

Wi-Fi CERTIFIED 6® Release 2

A-MPDU with A-MSDU

Beamforming sounding

BSRP Trigger frame

Compressed Block Ack Rx (buffer size 256)

Compressed Block Ack Tx (buffer size 256)

DL MU-MIMO

DL Mu PPDU multi-tone

HE NDP

LDPC Tx

LDPC Rx

Individual Target Wake Time

MCS 10-11 Rx

MCS 10-11 Tx

MCS 8-9 Rx

MCS 8-9 Tx

MU EDCA Parameter Set element

MU-BAR Trigger frame

MU-RTS Trigger frame

OM Control field Tx

OM subfield in A-Control field

Operating Mode indication

SU beamformee

SU-MIMO



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Role: Station Page 6 of 6

Wi-Fi CERTIFIED 6® Release 2 (continued)

UL OFDMA

UL TB PPDU multi-tone

Wi-Fi 6E

Multiple M-BSSID

Wi-Fi 6 Release 2 features

M-BSSID control frames

<u>Wi-Fi</u> 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 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

A-MPDU Tx

OBSS on Extension Channel

Power Management

Short Guard Interval

STBC

Wi-Fi Direct®

Wi-Fi Enhanced Open™ 2021-01

Wi-Fi Optimized Connectivity™ 2020

Active Scan

FILS Shared Key Authentication

Pushbutton

Probe Deferral and Suppression

Wi-Fi QoS Management™

Default DSCP to UP mapping

DSCP QoS Map

DSCP Policy

Mirrored Stream Classification Service

MSCS setup at association

Stream Classification Service