



Wi-Fi CERTIFIED™ Certificate



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

Certification ID: WFA103093

Product Info

| | |
|-----------------------|---------------------|
| Date of Certification | September 4, 2024 |
| Company | Samsung Electronics |
| Product Name | SC-52B |
| Product Model Variant | 2024-08-07 |
| Model Number | SC-52B |
| 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 6® 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 |
| Security | Protected Management Frames |

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Summary of Certifications (continued)

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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

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Wi-Fi Components

Wi-Fi Component Operating System

Android 15

Wi-Fi Component Firmware

20.25.294.1

RF Architecture

| Bands Supported | Transmit (Tx) | Receive (Rx) |
|-----------------|---------------|--------------|
| 2.4 GHz | 2 | 2 |

Certifications

2.4 GHz Spectrum Capabilities

20 MHz Channel Width in 2.4 GHz

Protected Management Frames

WMM®

WPA2™-Personal 2021-01

WPA3™-Personal 2020-02

Wi-Fi CERTIFIED 6®

A-MPDU with A-MSDU

LDPC Rx

LDPC Tx

MCS 8-9 Rx

MCS 8-9 Tx

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

OBSS on Extension Channel

Wi-Fi CERTIFIED™ n (continued)

Short Guard Interval

A-MPDU Tx

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Role: Station

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Wi-Fi Components

Wi-Fi Component Operating System

Android 15

Wi-Fi Component Firmware

20.25.294.1

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

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

Voice-Enterprise

WMM®

WMM®-Admission Control

WMM®-Power Save

WMM®-Power Save (continued)

Legacy Power Save
Unschedule auto PS

WPA2™-Enterprise 2018-04

EAP methods
EAP AKA
EAP AKA Prime
EAP SIM
EAP TLS
EAP TTLS
PEAPv0
PEAPv1

WPA2™-Personal 2021-01

WPA3™-Enterprise 2020-02

EAP methods
EAP AKA
EAP AKA Prime
EAP SIM
EAP TLS

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Role: Station

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WPA3™-Enterprise 2020-02 (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 2020-12

Wi-Fi Agile Multiband™

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 - Browser
 Bluetooth® Low Energy - Provider
 Bluetooth® Low Energy - Seeker
 Device Ranging
 TCP/UDP NDP Initiator
 TCP/UDP NDP Responder

Wi-Fi CERTIFIED 6®

A-MPDU with A-MSDU
 Beamforming sounding
 BSRP Trigger frame
 DL MU-MIMO
 HE NDP
 Individual Target Wake Time

Wi-Fi CERTIFIED 6® (continued)

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
 M-BSSID
 Operating mode control field
 Operating mode indication
 SU beamformee
 UL OFDMA

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

Wi-Fi CERTIFIED™ n

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Role: Station

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Wi-Fi CERTIFIED™ n (continued)

A-MPDU Tx
OBSS on Extension Channel
Power Management
Short Guard Interval

Wi-Fi Direct®

Wi-Fi Enhanced Open™ 2021-01

Wi-Fi Optimized Connectivity™ 2020

Active Scan
Pushbutton

Wi-Fi Protected Setup™

Pushbutton

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