



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

## Certification ID: WFA124434

### Product Info

Date of Certification	November 21, 2024
Company	Samsung Electronics
Product Name	SC-51D
Product Model Variant	2024-08-07
Model Number	SC-51D
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 Capabilities 6 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 Wi-Fi QoS Management™
Security	Protected Management Frames

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# Wi-Fi CERTIFIED™ Certificate

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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 2020-12

#### Spectrum & Regulatory Features

Spectrum & Regulatory

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# Wi-Fi CERTIFIED™ Certificate

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Role: Access Point

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## Wi-Fi Components

### Wi-Fi Component Operating System

Android 15.0

### Wi-Fi Component Firmware

2.0.0.0.1797.0

### 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

### Protected Management Frames

### WMM®

### WPA2™-Personal 2021-01

### WPA3™-Personal 2020-12

SAE-Public Key

### Wi-Fi CERTIFIED 6®

A-MPDU with A-MSDU

### Wi-Fi CERTIFIED 6® (continued)

Compressed Block Ack Rx (buffer size 256)

Compressed Block Ack Tx (buffer size 256)

LDPC Rx

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

### Wi-Fi CERTIFIED™ b

### Wi-Fi CERTIFIED™ g

### Wi-Fi CERTIFIED™ n

Short Guard Interval

STBC

A-MPDU Tx

### Wi-Fi Enhanced Open™ 2021-01

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# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA124434



Role: Station

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## Wi-Fi Components

### Wi-Fi Component Operating System

Android 15.0

### Wi-Fi Component Firmware

2.0.0.0.1797.0

### RF Architecture

Bands Supported	Transmit (Tx)	Receive (Rx)
2.4 GHz	2	2
5 GHz	2	2
6 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  
 160 MHz Channel Width in 5 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

### Protected Management Frames

### Spectrum & Regulatory

802.11h

### Voice-Enterprise

### WMM®

### WMM®-Admission Control

### WMM®-Power Save

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

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# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA124434



Role: Station

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## 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

SAE-Public Key

## 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 - Browser

Bluetooth® Low Energy - Provider

Bluetooth® Low Energy - Seeker

Device Ranging

## Wi-Fi CERTIFIED 6®

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

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

M-BSSID

Operating mode control field

Operating mode subfield in A-Control field

Operating mode indication

SU beamformee

SU-MIMO

UL OFDMA

Wi-Fi 6E

- Multiple M-BSSID

Wi-Fi 6 Release 2 features

- M-BSSID control frames

## Wi-Fi CERTIFIED™ a

## Wi-Fi CERTIFIED™ ac

Extended 5 GHz Channel Support

RTS with BW Signaling

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### Wi-Fi CERTIFIED™ ac (continued)

A-MPDU with A-MSDU  
DL MU-MIMO  
LDPC Rx  
MCS 8-9 Rx  
Short Guard Interval  
STBC  
LDPC Tx  
SU beamformee

### Wi-Fi QoS Management™

MSCS setup at association

### 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

- FILS Indication Element support
- AKM Suite Selector Type 15
- FILS Higher Layer Protocol with DHCP v4 Rapid Commit

Pushbutton  
Probe Deferral and Suppression