



# 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

<b>Date of Certification</b>	November 21, 2024
<b>Company</b>	Samsung Electronics
<b>Product Name</b>	SC-51D
<b>Product Model Variant</b>	2024-08-07
<b>Model Number</b>	SC-51D
<b>Category</b>	Phones
<b>Sub-category</b>	Smartphone

## Summary of Certifications

<b>CLASSIFICATION</b>	<b>CERTIFICATION</b>
<b>Applications &amp; Services</b>	Voice-Enterprise Wi-Fi Aware™
<b>Connectivity</b>	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
<b>Optimization</b>	WMM® WMM®-Admission Control WMM®-Power Save Wi-Fi Agile Multiband™ Wi-Fi Optimized Connectivity™ 2020 Wi-Fi QoS Management™
<b>Security</b>	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 2020-12
Spectrum & Regulatory Features	Spectrum & Regulatory



# 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



# Wi-Fi CERTIFIED™ Certificate

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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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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  
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  
A-MPDU with A-MSDU



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Role: Station

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## Wi-Fi CERTIFIED™ ac (continued)

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