



# 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: WFA114780**

## Product Info

<b>Date of Certification</b>	September 11, 2024
<b>Company</b>	Samsung Electronics
<b>Product Name</b>	SM-S901B/DS
<b>Product Model Variant</b>	2024-08-07
<b>Model Number</b>	SM-S901B/DS
<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 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 WPA2™-Enterprise 2018-04



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## Summary of Certifications (continued)

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CLASSIFICATION	CERTIFICATION
Security	WPA2™-Personal 2021-01 WPA3™-Enterprise 2020-02 WPA3™-Personal 2020-02
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

2.0.0.0.1072.3

### 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

### WMM®

### WPA2™-Personal 2021-01

### WPA3™-Personal 2020-02

### 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

LDPC Tx

### Wi-Fi CERTIFIED 6® (continued)

MCS 8-9 Rx

MCS 8-9 Tx

MCS 10-11 Rx

MCS 10-11 Tx

Operating mode indication

SU beamformer

TXOP RTS Threshold

### Wi-Fi CERTIFIED™ a

### Wi-Fi CERTIFIED™ ac

A-MPDU with A-MSDU

LDPC Rx

LDPC Tx

MCS 8-9 Rx

Short Guard Interval

STBC

SU beamformer

### Wi-Fi CERTIFIED™ b

### Wi-Fi CERTIFIED™ g



# Wi-Fi CERTIFIED™ Certificate

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Role: Access Point

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## Wi-Fi CERTIFIED™ n

OBSS on Extension Channel

Short Guard Interval

STBC

A-MPDU Tx



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Role: Station

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## Wi-Fi Components

### Wi-Fi Component Operating System

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### 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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## 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  
 Server Certificate Validation

## WPA3™-Personal 2020-02

## 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)

## Wi-Fi CERTIFIED 6® (continued)

DL MU PPDU multi-tone  
 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  
 UL OFDMA  
 UL TB PPDU multi-tone

## 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  
 STBC  
 LDPC Tx  
 SU beamformee

## Wi-Fi CERTIFIED™ b



# Wi-Fi CERTIFIED™ Certificate

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Role: Station

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## Wi-Fi CERTIFIED™ g

## Wi-Fi CERTIFIED™ n

STBC  
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  
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

## Wi-Fi QoS Management™

MSCS setup at association