



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: WFA132388

Product Info

Date of Certification	August 29, 2024
Company	Samsung Electronics
Product Name	SM-W9025
Product Model Variant	2024-08-28
Model Number	SM-W9025
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 Wi-Fi CERTIFIED 6® Wi-Fi CERTIFIED 6® Release 2 Wi-Fi CERTIFIED 7™ 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™ 2023-12
Optimization	WMM® WMM®-Admission Control WMM®-Power Save Wi-Fi Agile Multiband™ Wi-Fi Optimized Connectivity™ 2020 Wi-Fi QoS Management™



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Summary of Certifications (continued)

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CLASSIFICATION	CERTIFICATION
Security	Protected Management Frames WPA2™-Enterprise 2018-04 WPA2™-Personal 2021-01 WPA3™-Enterprise 2022-12 WPA3™-Personal 2023-12
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 14.0

Wi-Fi Component Firmware

2.0.3.1.30.4

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

160 MHz Channel Width in 5 GHz

Protected Management Frames

WMM®

WPA2™-Personal 2021-01

WPA3™-Personal 2023-12

Wi-Fi CERTIFIED 6®

A-MPDU with A-MSDU

LDPC Rx

LDPC Tx

MCS 8-9 Rx

Wi-Fi CERTIFIED 6® (continued)

MCS 8-9 Tx

MCS 10-11 Rx

MCS 10-11 Tx

SU beamformer

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™ n



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Wi-Fi CERTIFIED™ n (continued)

OBSS on Extension Channel

Short Guard Interval

STBC

A-MPDU Tx

Wi-Fi Enhanced Open™ 2023-12



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Wi-Fi Components

Wi-Fi Component Operating System

Android 14.0

Wi-Fi Component Firmware

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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

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 2022-12

EAP methods

EAP AKA

EAP AKA Prime

EAP SIM

EAP TLS



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WPA3™-Enterprise 2022-12 (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
Fast Transition OTA on WPA3-Enterprise
Fast Transition OTA on WPA3-Enterprise transition mode
Server Certificate Validation

WPA3™-Personal 2023-12

AKM 24
Fast Transition OTA on WPA3-Personal
Fast Transition OTA on WPA3-Personal transition mode
Beacon Protection

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
Fast Transition OTA on WPA2-Enterprise

Wi-Fi Aware™

Bluetooth® Low Energy
Bluetooth® Low Energy - Browser
Bluetooth® Low Energy - Provider
Bluetooth® Low Energy - Seeker

Wi-Fi Aware™ (continued)

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
Operating mode control field
Operating mode indication
SU beamformee
SU-MIMO
UL OFDMA
UL TB PPDU multi-tone
Wi-Fi 6 Release 2 features
UL MU-MIMO
M-BSSID control frames



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Wi-Fi CERTIFIED 7™

Advertised TID-to-link mapping
 A-MPDU with A-MSDU
 Beamforming sounding
 BSS critical update
 Compressed Block Ack Rx (buffer size 256)
 Compressed Block Ack Tx (buffer size 256)
 DL MU-MIMO
 EPCS (Emergency Preparedness Communications Services) priority access
 LDPC Rx
 LDPC Tx
 Load Balancing in MLO
 MCS 8-9 Rx
 MCS 8-9 Tx
 MCS 10-11 Rx
 MCS 10-11 Tx
 MCS 12-13 Rx
 MCS 12-13 Tx
 Multi-link reconfiguration – AP removal
 Multi-RU
 Operating mode indication
 Static puncturing
 SU-MIMO
 UL MU-MIMO
 UL OFDMA

Wi-Fi 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

Wi-Fi CERTIFIED™ ac (continued)

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™ 2023-12

Wi-Fi Optimized Connectivity™ 2020

Active Scan
 Fast Transition OTA on WPA2-Enterprise
 Pushbutton

Wi-Fi QoS Management™

Default DSCP to UP mapping
 DSCP QoS Map
 Mirrored Stream Classification Service
 MSCS setup at association



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Wi-Fi QoS Management™ (continued)

Stream Classification Service