



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

Certification ID: WFA128160

Product Info

Date of Certification October 23, 2023

Company Samsung Electronics

Product Name SM-S921U

Product Model Variant 2023-09-15

Model Number SM-S921U

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 Capabilities6 GHz Spectrum Capabilities

Wi-Fi CERTIFIED 6®

Wi-Fi CERTIFIED 6® Release 2

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™





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Summary of Certifications (continued)		Page 2 of 7
CLASSIFICATION	CERTIFICATION	
Security	Protected Management Frames WPA2™-Enterprise 2018-04 WPA2™-Personal 2021-01 WPA3™-Enterprise 2022-12 WPA3™-Personal 2022-06	
Spectrum & Regulatory Features	Spectrum & Regulatory	



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Wi-Fi Components

Wi-Fi Component Operating System

Android 14.0

Wi-Fi Component Firmware

2.0.0.0.1518.1

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

Wi-Fi CERTIFIED 6® (continued)

LDPC Tx

MCS 8-9 Rx

MCS 8-9 Tx

MCS 10-11 Rx

MCS 10-11 Tx

SU beamformer

Wi-Fi CERTIFIED™ a

Protected Management Frames

WMM®

Max Throughput

WPA2™-Personal 2021-01

WPA3™-Personal 2022-06

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 6®

A-MPDU with A-MSDU

LDPC Rx

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n





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ole: Access Point	Page 4 o
Wi-Fi CERTIFIED™ n (continued)	
A-MPDU Tx	
OBSS on Extension Channel	
Short Guard Interval	
STBC	



802.11h

Wi-Fi CERTIFIED™ Certificate

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Role: Station Page 5 of 7 Wi-Fi Components **Wi-Fi Component Operating System RF Architecture** Android 14.0 Bands Supported Transmit (Tx) Receive (Rx) Wi-Fi Component Firmware 2.4 GHz 2 2 2.0.0.0.1518.1 5 GHz 2 2 6 GHz Certifications 2.4 GHz Spectrum Capabilities Voice-Enterprise 20 MHz Channel Width in 2.4 GHz **WMM®** Max Throughput **5 GHz Spectrum Capabilities** 20 MHz Channel Width in 5 GHz **WMM®-Admission Control** 40 MHz Channel Width in 5 GHz 80 MHz Channel Width in 5 GHz WMM®-Power Save 160 MHz Channel Width in 5 GHz Legacy Power Save Unschedule auto PS 6 GHz Spectrum Capabilities 20 MHz Channel Width in 6 GHz WPA2™-Enterprise 2018-04 40 MHz Channel Width in 6 GHz 80 MHz Channel Width in 6 GHz EAP methods 160 MHz Channel Width in 6 GHz EAP AKA **EAP AKA Prime EAP SIM Protected Management Frames EAP TLS EAP TTLS** Spectrum & Regulatory PEAPv0 PEAPv1







Role: Station Page 6 of 7

WPA2™-Personal 2021-01

WPA3™-Enterprise 2022-12

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

Fast Transition OTA on WPA3-Enterprise

Fast Transition OTA on WPA3-Enterprise transition mode

Fast Transition OTDS on WPA3-Enterprise

Server Certificate Validation

WPA3™-Personal 2022-06

Fast Transition OTA on WPA3-Personal

Fast Transition OTA on WPA3-Personal transition mode

Fast Transition OTDS on WPA3-Personal

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

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 subfield in A-Control field

Operating mode indication

SU beamformee

SU-MIMO





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Wi-Fi CERTIFIED 6® Release 2 (continued)

UL OFDMA

UL TB PPDU multi-tone

Wi-Fi 6E

Multiple M-BSSID

Wi-Fi 6 Release 2 features

UL Extended Range

M-BSSID control frames

Wi-Fi Direct®

Wi-Fi Enhanced Open™ 2021-01

Wi-Fi Optimized Connectivity™ 2020

Active Scan

Fast Transition OTA on WPA2-Enterprise

Pushbutton

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

MCS 8 Rx

MCS 8-9 Rx

Short Guard Interval

STBC

LDPC Tx

SU beamformee

Wi-Fi QoS Management™

Default DSCP to UP mapping

DSCP QoS Map

Mirrored Stream Classification Service

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

A-MPDU Tx

OBSS on Extension Channel

Short Guard Interval

STBC