



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™



Certification ID: WFA128160



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	



Wi-Fi CERTIFIED 6®

A-MPDU with A-MSDU

LDPC Rx

Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA128160



Role: Access Point	Pa	Page 3 of 7	
Vi-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
Certifications			
2.4 GHz Spectrum Capabilities	Wi-Fi CERTIFIED	6® (continued)	
20 MHz Channel Width in 2.4 GHz	LDPC Tx MCS 8-9 Rx		
5 GHz Spectrum Capabilities	MCS 8-9 Tx MCS 10-11 Rx		
20 MHz Channel Width in 5 GHz 40 MHz Channel Width in 5 GHz 80 MHz Channel Width in 5 GHz	MCS 10-11 Tx SU beamformer		
80 MHz Channel Width in 5 GHz	Wi-Fi CERTIFIED	™ a	
Protected Management Frames	Wi-Fi CERTIFIED	™ ac	
WMM®	A-MPDU with A-MSDU		
Max Throughput	LDPC Rx LDPC Tx		
WPA2™-Personal 2021-01	MCS 8-9 Rx Short Guard Interval STBC		
WPA3™-Personal 2022-06	SU beamformer		

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n



Certification ID: WFA128160



Role: Access Point Page 4 of 7

Wi-Fi CERTIFIED™ n (continued)

A-MPDU Tx

OBSS on Extension Channel
Short Guard Interval



Certification ID: WFA128160



Role: Station	P	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	2	2	
Certifications				
2.4 GHz Spectrum Capabilities	Voice-Enterprise			
20 MHz Channel Width in 2.4 GHz	WMM®			
	Max Throughput			
5 GHz Spectrum Capabilities	ax vougnput			
20 MHz Channel Width in 5 GHz	WMM®-Admission Control			
40 MHz Channel Width in 5 GHz 80 MHz Channel Width in 5 GHz	WANG Dawe Car			
160 MHz Channel Width in 5 GHz	WMM®-Power Sav	'e		
	Legacy Power Save			
6 GHz Spectrum Capabilities	Unschedule auto PS			
20 MHz Channel Width in 6 GHz	WPA2™-Enterpris	e 2018-04		
40 MHz Channel Width in 6 GHz				
80 MHz Channel Width in 6 GHz 160 MHz Channel Width in 6 GHz	EAP methods EAP AKA			
	EAP AKA Prime			
Protected Management Frames	EAP SIM EAP TLS			
0	EAP TTLS			
Spectrum & Regulatory	PEAPv0			
802.11h	PEAPv1			



Certification ID: WFA128160



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

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

M-BSSID

Operating mode control field

Operating mode subfield in A-Control field

Operating mode indication

SU beamformee

SU-MIMO



Certification ID: WFA128160



Role: Station Page 7 of 7

Wi-Fi CERTIFIED 6® Release 2 (continued)

UL OFDMA

Wi-Fi 6E

Multiple M-BSSID

Wi-Fi 6 Release 2 features

UL Extended Range

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

DL MU-MIMO

LDPC Rx

MCS 8 Rx

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

Short Guard Interval

STBC

Wi-Fi Direct®

Wi-Fi Direct with WPA2

Wi-Fi Enhanced Open™ 2021-01

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