



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

Certification ID: WFA129268

Product Info

Date of Certification October 7, 2024

Company Samsung Electronics

Product Name SM-A556B/DS

Product Model Variant 2024-08-19

Model Number SM-A556B/DS

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™ 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™

Security Protected Management Frames

WPA2[™]-Enterprise 2018-04 WPA2[™]-Personal 2021-01





Certification ID: WFA129268

Summary of Certifications (continued)
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Page 2 of 7

CLASSIFICATION CERTIFICATION

Security WPA3[™]-Enterprise 2022-12

WPA3™-Personal 2022-06

Spectrum & Regulatory

Features

Spectrum & Regulatory





Certification ID: WFA129268

Role: Access Point	Page 3 of 7

Wi-Fi Components

Wi-Fi Component Operating System

Android 15.0

Wi-Fi Component Firmware

Y23W48A

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 2022-06

Wi-Fi CERTIFIED 6®

A-MPDU with A-MSDU

Compressed Block Ack Rx (buffer size 256)

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

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

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

HT Duplicate Mode

OBSS on Extension Channel





Certification ID: WFA129268

Role: Access Point
Wi-Fi CERTIFIED™ n (continued)
Short Guard Interval
A-MPDU Tx



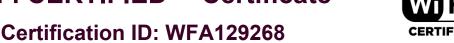
Certification ID: WFA129268



Role: Station Page 5 of 7 Wi-Fi Components **Wi-Fi Component Operating System RF Architecture** Android 15.0 Bands Supported Transmit (Tx) Receive (Rx) Wi-Fi Component Firmware 2.4 GHz 2 Y23W48A 5 GHz Certifications 2.4 GHz Spectrum Capabilities WMM®-Power Save (continued) 20 MHz Channel Width in 2.4 GHz Legacy Power Save Unschedule auto PS **5 GHz Spectrum Capabilities** WPA2™-Enterprise 2018-04 20 MHz Channel Width in 5 GHz 40 MHz Channel Width in 5 GHz EAP methods 80 MHz Channel Width in 5 GHz EAP AKA **EAP AKA Prime** EAP SIM **Protected Management Frames EAP TLS EAP TTLS Spectrum & Regulatory** PEAPv0 PEAPv1 802.11h WPA2™-Personal 2021-01 Voice-Enterprise WPA3™-Enterprise 2022-12 **WMM®** EAP methods **WMM®-Admission Control** EAP AKA **EAP AKA Prime** WMM®-Power Save EAP SIM

EAP TLS







Role: Station Page 6 of 7

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 2022-06

Fast Transition OTA on WPA3-Personal

Fast Transition OTA on WPA3-Personal transition mode

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

Wi-Fi Aware™ (continued)

Device Ranging

Wi-Fi CERTIFIED 6® Release 2

A-MPDU with A-MSDU

Beamforming sounding

BSRP Trigger frame

DL MU-MIMO

DL MU PPDU multi-tone

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

UL OFDMA

UL TB PPDU multi-tone

Wi-Fi 6 Release 2 features

UL MU-MIMO

UL MU Control

UL Extended Range

Target Wake Time information frames

Broadcast Target Wake Time

Dynamic MU SMPS

M-BSSID control frames

Preamble Puncturing



Wi-Fi Enhanced Open™ 2021-01

Wi-Fi CERTIFIED™ Certificate



Certification ID: WFA129268

Role: Station Page 7 of 7 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 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 HT Duplicate Mode **OBSS** on Extension Channel **Power Management** Short Guard Interval STBC Wi-Fi Direct® Wi-Fi Direct with WPA2