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 ID: WFA130163

Product Info

Date of Certification	October 21, 2024
Company	MediaTek Inc.
Product Name	MediaTek MT6653
Product Model Variant	NA
Model Number	Mediatek Dimensity 9XXX
Category	Phones
Sub-category	Smartphone

Summary of Certifications

CLASSIFICATION	CERTIFICATION
Access	Passpoint® Release 3 Wi-Fi Protected Setup™
Alternative topologies	TDLS Wi-Fi Direct®
Network management	WMM® WMM®-Admission Control WMM®-Power Save Wi-Fi Agile Multiband™ Wi-Fi Optimized Connectivity™ 2020 Wi-Fi QoS Management™
Performance	Voice-Enterprise
Security	Protected Management Frames WPA2™-Enterprise 2018-04 WPA2™-Personal 2021-01 WPA3™-Enterprise 2022-12 WPA3™-Personal 2022-06 WPA3™-Personal 2023-12 Wi-Fi Enhanced Open™ 2021-01 Wi-Fi Enhanced Open™ 2023-12

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Wi-Fi CERTIFIED® Certificate

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Summary of Certifications (continued)

CLASSIFICATION	CERTIFICATION
Wi-Fi (MAC/PHY)	2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities 6 GHz Spectrum Capabilities Spectrum & Regulatory 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

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Wi-Fi Components

Wi-Fi Component Operating System

Android 15

Wi-Fi Component Firmware

15 AP3A.240905.015.A1 mp1cs1ofp63

RF Architecture

Bands Supported	Transmit (Tx)	Receive (Rx)
2.4 GHz	2	2
5 GHz	2	2
6 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

6 GHz Spectrum Capabilities

20 MHz Channel Width in 6 GHz
40 MHz Channel Width in 6 GHz
80 MHz Channel Width in 6 GHz
160 MHz Channel Width in 6 GHz

Protected Management Frames

WMM®

WMM®-Power Save

WMM®-Power Save (continued)

Legacy Power Save
Unschedule auto PS

WPA2™-Personal 2021-01

WPA3™-Personal 2022-06

Wi-Fi CERTIFIED 6® Release 2

A-MPDU with A-MSDU
LDPC Rx
LDPC Tx
MCS 8-9 Rx
MCS 8-9 Tx
MCS 10-11 Rx
MCS 10-11 Tx
SU-MIMO
Wi-Fi 6E
Wi-Fi 6 Release 2 features
    UL Extended Range

Wi-Fi CERTIFIED™ a

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Wi-Fi CERTIFIED™ ac

A-MPDU with A-MSDU
LDPC Rx
LDPC Tx
MCS 8-9 Rx
Short Guard Interval
STBC

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

HT Duplicate Mode
OBSS on Extension Channel
Short Guard Interval
STBC
A-MPDU Tx

Wi-Fi Enhanced Open™ 2021-01

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Wi-Fi CERTIFIED® Certificate

Certification ID: WFA130163

Wi-Fi Components

Wi-Fi Component Operating System

Android 15

Wi-Fi Component Firmware

15 AP3A.240905.015.A1 mp1cs1ofp63

RF Architecture

Bands Supported	Transmit (Tx)	Receive (Rx)
2.4 GHz	2	2
5 GHz	2	2
6 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

6 GHz Spectrum Capabilities

20 MHz Channel Width in 6 GHz
40 MHz Channel Width in 6 GHz
80 MHz Channel Width in 6 GHz
160 MHz Channel Width in 6 GHz
320 MHz channel width in 6 GHz

Passpoint® Release 3

ANQP-element for OSU provider selection
Display and input method

Passpoint® Release 3 (continued)

Display of HS2.0 indication
Fast Transition OTA on WPA2-Enterprise
NAI Home Realm Query element
Network Information in network selection
Operating Class Indication
Roaming Consortium Selection
Terms and Conditions
    Private and secure terms and conditions
Venue Information

Protected Management Frames

Spectrum & Regulatory

802.11h

TDLS

Voice-Enterprise

WMM®

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Wi-Fi CERTIFIED® Certificate

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WMM®-Admission Control

WMM®-Power Save

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
- 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 2023-12

Fast Transition OTA on WPA3-Personal
Fast Transition OTA on WPA3-Personal transition mode
Fast Transition OTDS on WPA3-Personal
Beacon Protection

Wi-Fi Agile Multiband™

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 CERTIFIED 6® Release 2

A-MPDU with A-MSDU
BSRP Trigger frame
Compressed Block Ack Rx (buffer size 256)
Compressed Block Ack Tx (buffer size 256)
DL MU-MIMO
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

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Wi-Fi CERTIFIED® Certificate

Certification ID: WFA130163

Role: Station

Wi-Fi CERTIFIED 6® Release 2 (continued)

- Operating mode indication
- SU beamformee
- SU-MIMO
- UL OFDMA
- Wi-Fi 6E
  - Multiple M-BSSID
- Wi-Fi 6 Release 2 features
  - UL MU-MIMO
  - UL MU Control
  - Target Wake Time information frames
  - Broadcast Target Wake Time
  - Dynamic MU SMPS
  - M-BSSID control frames
  - Preamble Puncturing

Wi-Fi CERTIFIED 7™

- Advertised TID-to-link mapping
- A-MPDU with A-MSDU
- BSS critical update
- Compressed Block Ack Rx (buffer size 256)
- Compressed Block Ack Tx (buffer size 256)
- Compressed Block Ack Rx (buffer size 512)
- Compressed Block Ack Tx (buffer size 512)
- DL MU-MIMO
- Dynamic MU SMPS
- EMLSR (Enhanced Multilink Single-Radio)
- 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

Wi-Fi CERTIFIED 7™ (continued)

- MCS 10-11 Tx
- MCS 12-13 Rx
- MCS 12-13 Tx
- Multi-link reconfiguration – AP removal
- Multi-link reconfiguration – AP restart
- Multi-RU
- Operating mode indication
  - Operating mode indication for 320 MHz
- Static puncturing
- STR (Simultaneous Transmit and Receive)
- SU-MIMO
- Triggered uplink access optimization
- UL MU-MIMO
- UL OFDMA

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™ g

Wi-Fi CERTIFIED™ n

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Wi-Fi CERTIFIED® Certificate

Certification ID: WFA130163

Wi-Fi CERTIFIED™ n (continued)

A-MPDU Tx
HT Duplicate Mode
OBSS on Extension Channel
Short Guard Interval
STBC

Wi-Fi Direct®

Wi-Fi Direct with WPA2

Wi-Fi Enhanced Open™ 2023-12

Wi-Fi Optimized Connectivity™ 2020

FILS Shared Key Authentication
Fast Transition OTA on WPA2-Enterprise
Pushbutton
Probe Deferral and Suppression

Wi-Fi Protected Setup™

PIN
Pushbutton

Wi-Fi QoS Management™

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

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