



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: WFA130163

Product Info

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

Summary of Certifications

CLASSIFICATION	CERTIFICATION
Access	Passpoint® Release 3 Wi-Fi Protected Setup™
Applications & Services	Voice-Enterprise
Connectivity	2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities 6 GHz Spectrum Capabilities 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™ 2021-01 Wi-Fi Enhanced Open™ 2023-12
Optimization	TDLS WMM® WMM®-Admission Control WMM®-Power Save



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Summary of Certifications (continued)

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CLASSIFICATION

CERTIFICATION

Optimization

Wi-Fi Agile Multiband™
Wi-Fi Optimized Connectivity™ 2020
Wi-Fi QoS Management™

Security

Protected Management Frames
WPA2™-Enterprise 2018-04
WPA2™-Personal 2021-01
WPA3™-Enterprise 2022-12
WPA3™-Personal 2022-06
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 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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Role: Station

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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

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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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

AKM 24
AKM 25
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
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
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
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



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Wi-Fi CERTIFIED 6® Release 2 (continued)

- 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 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
- Beamforming sounding
- 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

Wi-Fi CERTIFIED 7™ (continued)

- 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-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



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Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

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

Active Scan
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

Wi-Fi QoS Management™ (continued)

DSCP Policy
Mirrored Stream Classification Service
 MSCS setup at association
Stream Classification Service