



# 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](http://www.wi-fi.org/certification/programs)

**Certification ID: WFA130163**

## Product Info

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

## Summary of Certifications

<b>CLASSIFICATION</b>	<b>CERTIFICATION</b>
<b>Access</b>	Passpoint® Release 3 Wi-Fi Protected Setup™
<b>Applications &amp; Services</b>	Voice-Enterprise
<b>Connectivity</b>	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
<b>Optimization</b>	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



# Wi-Fi CERTIFIED™ Certificate

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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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Role: Access Point

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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

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### 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™ (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 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™ 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™ Certificate

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Role: Station

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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