



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: WFA122279

Product Info

Date of Certification	January 5, 2024
Company	MediaTek Inc.
Product Name	MediaTek Filogic-880-AP - MT7990
Product Model Variant	Wi-Fi 7
Model Number	MediaTek Filogic-880-AP - MT7990
Category	Other
Sub-category	Embedded Module

Summary of Certifications

CLASSIFICATION	CERTIFICATION
Access	Passpoint® Release 3 Wi-Fi Protected Setup™
Connectivity	2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities 6 GHz Spectrum Capabilities Wi-Fi CERTIFIED 6® 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 Enhanced Open™ 2023-12
Optimization	WMM® WMM®-Power Save Wi-Fi Agile Multiband™ Wi-Fi EasyMesh™ Wi-Fi QoS Management™
Security	Protected Management Frames WPA2™-Enterprise 2018-04



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Summary of Certifications (continued)

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CLASSIFICATION	CERTIFICATION
Security	WPA2™-Personal 2021-01 WPA3™-Enterprise 2020-02 WPA3™-Personal 2023-12 WPA™-Enterprise WPA™-Personal
Spectrum & Regulatory Features	Spectrum & Regulatory



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Role: Access Point

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Wi-Fi Components

Wi-Fi Component Operating System

Linux

Wi-Fi Component Firmware

20231215162410

RF Architecture

Bands Supported	Transmit (Tx)	Receive (Rx)
2.4 GHz	4	4
5 GHz	4	4
6 GHz	4	4

Certifications

2.4 GHz Spectrum Capabilities

20 MHz Channel Width in 2.4 GHz
40 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

Online Sign Up and Policy provisioning

Passpoint® Release 3 (continued)

Online Sign Up using single SSID
Roaming Consortium Selection
Venue Information
Terms and Conditions

Protected Management Frames

Spectrum & Regulatory

802.11d
802.11h

WMM®

Max Throughput

WMM®-Power Save

Legacy Power Save
Unschedule auto PS



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WPA2™-Enterprise 2018-04

EAP methods

WPA2™-Personal 2021-01

WPA3™-Enterprise 2020-02

EAP methods

192-bit security

Fast Transition OTA on WPA3-Enterprise

Fast Transition OTA on WPA3-Enterprise transition mode

Fast Transition OTDS on WPA3-Enterprise

WPA3™-Personal 2023-12

AKM 24

Fast Transition OTA on WPA3-Personal

Fast Transition OTA on WPA3-Personal transition mode

Fast Transition OTDS on WPA3-Personal

Beacon Protection

SAE-Public Key

WPA™-Enterprise

WPA™-Personal

Wi-Fi Agile Multiband™

Automatically populate BSS Transition candidate list

Fast Transition OTA on WPA2-Enterprise

Fast Transition OTA on WPA2-Personal

Wi-Fi CERTIFIED 6®

Wi-Fi CERTIFIED 6® (continued)

4 antenna support

A-MPDU with A-MSDU

Basic Trigger frame in HE MU PPDU

Beamforming sounding

BSRP Trigger frame

Co-located BSS

Compressed Block Ack Rx (buffer size 256)

Compressed Block Ack Tx (buffer size 256)

DL MU-MIMO

DL OFDMA

Individual Target Wake Time

LDPC Rx

LDPC Tx

MCS 8-9 Rx

MCS 8-9 Tx

MCS 10-11 Rx

MCS 10-11 Tx

MU EDCA Parameter Set element

MU-BAR Trigger frame

MU-RTS Trigger frame

M-BSSID

Operating Mode indication

SU beamformer

SU-MIMO

TXOP RTS Threshold

UL OFDMA

Wi-Fi 6E

Wi-Fi 6 Release 2 features

UL MU-MIMO

UL MU Control

UL Extended Range

Target Wake Time information frames

Broadcast Target Wake Time

Extended sleep

Dynamic MU SMPS

M-BSSID control frames



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Wi-Fi CERTIFIED 6® (continued)

Preamble Puncturing

Wi-Fi CERTIFIED 7™

Advertised TID-to-link mapping
 A-MPDU with A-MSDU
 Basic Trigger frame in EHT MU PPDU
 Beamforming sounding
 BSRP Trigger frame
 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
 DL OFDMA
 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
 MCS 10-11 Tx
 MCS 12-13 Rx
 MCS 12-13 Tx
 Multi-link reconfiguration – AP removal
 Multi-link reconfiguration – AP restart
 Multi-RU
 MU-RTS Trigger frame
 Operating Mode indication
 Operating Mode Indication for 320 MHz

Wi-Fi CERTIFIED 7™ (continued)

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

RTS with BW Signaling
 Extended 5 GHz Channel Support
 A-MPDU with A-MSDU
 DL MU-MIMO
 LDPC Rx
 LDPC Tx
 MCS 8-9 Rx
 Short Guard Interval
 STBC
 SU beamformer

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

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



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Role: Access Point

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Wi-Fi EasyMesh™

Backhaul Link

- Backhaul in 2.4 GHz
- Backhaul in 5 GHz low band
- Backhaul in 5 GHz high band
- Backhaul over Ethernet

Fronthaul Access Point

- Fronthaul in 2.4 GHz
- Fronthaul in 5 GHz low band
- Fronthaul in 5 GHz high band

Service Prioritization and QoS

- C-TAG Service Prioritization
- Mirrored Stream Classification Service
- Stream Classification Service
- DSCP QoS Map
- DSCP Policy

Agent-initiated Steering capability

Backhaul onboarding with Pushbutton

Backhaul onboarding with QR code

Channel Scan on Request

Client Capability Query

Coordinated CAC

Traffic separation

Unassociated STA Link Metrics Reporting

Indefinite/Timed Block of stations

Wi-Fi QoS Management™ (continued)

DSCP QoS Map

DSCP Policy

Mirrored Stream Classification Service

Stream Classification Service

- SCS with QoS characteristics

Wi-Fi Enhanced Open™ 2023-12

Wi-Fi Protected Setup™

PIN

Pushbutton

Wi-Fi QoS Management™

Default DSCP to UP mapping



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Role: Controller

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Wi-Fi Components

Wi-Fi Component Operating System

Linux

Certifications

Wi-Fi EasyMesh™