



# 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: 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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## 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



# Wi-Fi CERTIFIED™ Certificate

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Role: Controller

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## Wi-Fi Components

Wi-Fi Component Operating System

Linux

## Certifications

Wi-Fi EasyMesh™