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: 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™
Alternative topologies	Wi-Fi EasyMesh™
Network management	WMM® WMM®-Power Save Wi-Fi Agile Multiband™ Wi-Fi QoS Management™
Security	Protected Management Frames WPA2™-Enterprise 2018-04 WPA2™-Personal 2021-01 WPA3™-Enterprise 2020-02 WPA3™-Personal 2023-12 Wi-Fi Enhanced Open™ 2023-12
Wi-Fi (MAC/PHY)	2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities 6 GHz Spectrum Capabilities Spectrum & Regulatory Wi-Fi CERTIFIED 6® Wi-Fi CERTIFIED 7™

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Wi-Fi CERTIFIED® Certificate

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Summary of Certifications (continued)

CLASSIFICATION	CERTIFICATION
Wi-Fi (MAC/PHY)	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 CERTIFIED® Certificate

Certification ID: WFA122279

Role: Access Point

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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Wi-Fi CERTIFIED® Certificate

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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

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

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®

4 antenna support
A-MPDU with A-MSDU
Basic Trigger frame in HE MU PPDU
Beamforming sounding
BSRP Trigger frame

Wi-Fi CERTIFIED 6® (continued)

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 subfield in A-Control field
Operating mode indication
Operating mode UL MU Rx
SU beamformer
SU-MIMO
TXOP RTS Threshold
UL OFDMA
Wi-Fi 6E
- Co-located BSS

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
- Preamble Puncturing

Wi-Fi CERTIFIED 7™

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Wi-Fi CERTIFIED® Certificate

Certification ID: WFA122279

Role: Access Point

Wi-Fi CERTIFIED 7™ (continued)

Advertised TID-to-link mapping
A-MPDU with A-MSDU
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
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

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

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Wi-Fi EasyMesh™ (continued)

- 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 Wi-Fi Protected Setup pushbutton

Backhaul onboarding with Wi-Fi Easy Connect QR code

Channel Scan on Request

Coordinated CAC

Traffic separation

Unassociated STA Link Metrics Reporting

Indefinite/Timed Block of stations

Wi-Fi Enhanced Open™ 2023-12

Wi-Fi Protected Setup™

PIN

Pushbutton

Wi-Fi QoS Management™

Default DSCP to UP mapping

DSCP QoS Map

DSCP Policy

Mirrored Stream Classification Service

Stream Classification Service

- SCS with QoS characteristics

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Wi-Fi CERTIFIED® Certificate

Certification ID: WFA122279

Role: Controller

Wi-Fi Components

Wi-Fi Component Operating System

Linux

Certifications

Wi-Fi EasyMesh™

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