



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: WFA101082

Product Info

Date of Certification	December 1, 2021
Company	Broadcom Corporation
Product Name	Broadcom 802.11 a/b/g/n/ac/ax 24g/5g/6g 2x2 wireless adapter
Product Model Variant	QoS
Model Number	BCM94391
Category	Other
Sub-category	Embedded Module

Summary of Certifications

CLASSIFICATION	CERTIFICATION
Connectivity	2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities 6 GHz Spectrum Capabilities Wi-Fi CERTIFIED 6® Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ ac Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n Wi-Fi Enhanced Open™ 2021-01
Optimization	WMM® 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 2020-02 WPA3™-Personal 2020-12 WPA™-Enterprise WPA™-Personal



Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA101082



Summary of Certifications (continued)

Page 2 of 5

CLASSIFICATION

CERTIFICATION

Spectrum & Regulatory
Features

Spectrum & Regulatory



Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA101082



Role: Station

Page 3 of 5

Wi-Fi Components

Wi-Fi Component Operating System

Linux, version:Fedora 30

Wi-Fi Component Firmware

1.100.1-r-950794:01-74e60a0d

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
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

Protected Management Frames

Spectrum & Regulatory

Spectrum & Regulatory (continued)

802.11h

WMM®

WPA2™-Enterprise 2018-04

EAP methods
EAP TLS
EAP TTLS
PEAPv0
PEAPv1

WPA2™-Personal 2021-01

WPA3™-Enterprise 2020-02

EAP methods
EAP TLS
EAP TTLS
PEAPv0
PEAPv1



Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA101082



Role: Station

Page 4 of 5

WPA3™-Personal 2020-12

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
Operating Channel Validation
Privacy Extensions
 Active Scan
 ANQP

WPA™-Enterprise

WPA™-Personal

Wi-Fi Agile Multiband™

ANQP
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®

BSRP Trigger frame
DL Mu PPDU multi-tone
DL MU-MIMO
MU EDCA Parameter Set element
MU-BAR Trigger frame
MU-RTS Trigger frame
SU beamformee
UL OFDMA
UL TB PPDU multi-tone

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
LDPC Tx
SU beamformee

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

Wi-Fi Enhanced Open™ 2021-01

Wi-Fi Optimized Connectivity™ 2020

Active Scan
FILS Shared Key Authentication
 FILS Indication Element support
 AKM Suite Selector Type 15
 FILS Higher Layer Protocol with DHCP v4 Rapid Commit
Fast Transition OTA on WPA2-Enterprise
Pushbutton
Probe Deferral and Suppression



Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA101082



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Page 5 of 5

Wi-Fi QoS Management™

Default DSCP to UP mapping
DSCP QoS Map
DSCP Policy
Mirrored Stream Classification Service
 MSCS setup at association
Stream Classification Service