



# Wi-Fi CERTIFIED® Certificate

This certificate lists the features that have successfully completed Wi-Fi Alliance interoperability testing. Learn more: [www.wi-fi.org](http://www.wi-fi.org)



## Certification ID: WFA101082

### Product Info

<b>Date of Certification</b>	April 13, 2021
<b>Company</b>	Broadcom Corporation
<b>Product Name</b>	Broadcom 802.11 a/b/g/n/ac/ax 24g/5g/6g 2x2 wireless adapter
<b>Product Model Variant</b>	6E update
<b>Model Number</b>	BCM94391
<b>Category</b>	Other
<b>Sub-category</b>	Embedded Module

### Summary of Certifications

CLASSIFICATION	CERTIFICATION
<b>Network management</b>	WMM® Wi-Fi Agile Multiband™ Wi-Fi Optimized Connectivity™ 2020 Wi-Fi QoS Management™
<b>Security</b>	Protected Management Frames WPA2™-Enterprise 2018-04 WPA2™-Personal 2021-01 WPA3™-Enterprise 2020-02 WPA3™-Personal 2020-12 Wi-Fi Enhanced Open™ 2021-01
<b>Wi-Fi (MAC/PHY)</b>	2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities 6 GHz Spectrum Capabilities Spectrum & Regulatory Wi-Fi CERTIFIED 6® Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ ac Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n

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Role: Station

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## Wi-Fi Components

### Wi-Fi Component Operating System

Linux, version:Fedora 30

### Wi-Fi Component Firmware

ca\_get\_version: OCE\_2020FR\_1.0, SW  
version:1.108.6-r-900246:01-3bc4cd4b

### 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

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## 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

## Wi-Fi CERTIFIED™ ac (continued)

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 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™ b

## Wi-Fi CERTIFIED™ g

## Wi-Fi CERTIFIED™ n

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

## Wi-Fi CERTIFIED 6®

BSRP Trigger frame  
 DL MU-MIMO  
 MU EDCA Parameter Set element  
 MU-BAR Trigger frame  
 MU-RTS Trigger frame  
 M-BSSID  
 SU beamformee  
 UL OFDMA

## 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™ a

## Wi-Fi CERTIFIED™ ac

## Wi-Fi QoS Management™

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## Wi-Fi QoS Management™ (continued)

MSCS setup at association

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