

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 15, 2022	
Company	Broadcom Corporation	
Product Name	Broadcom 802.11 a/b/g/n/ac/ax 24g/5g/6g 2x2 wireless adapter	
Product Model Variant	Wi-Fi Aware R4	
Model Number	BCM94391	
Category	Other	
Sub-category	Embedded Module	

Summary of Certifications

CLASSIFICATION	CERTIFICATION
Applications & Services	Wi-Fi Aware™
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



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Summary of Certifications (continued)Page 2 of 5CLASSIFICATIONCERTIFICATIONSpectrum & Regulatory
FeaturesSpectrum & Regulatory



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Role: Station

Wi-Fi Components

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Wi-Fi Component Operating System	RF Architecture
Linux, version:Fedora 30	Bands Supported
Wi-Fi Component Firmware	

1.27.45-r-998106:01-c6074623

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	Spectrum & Regulatory (continued)
20 MHz Channel Width in 2.4 GHz 40 MHz Channel Width in 2.4 GHz	802.11h
5 CU- Spactnum Canakilitiaa	WMM®
5 GHz Spectrum Capabilities 20 MHz Channel Width in 5 GHz	WPA2™-Enterprise 2018-04
40 MHz Channel Width in 5 GHz	EAP methods
80 MHz Channel Width in 5 GHz	EAP TLS
160 MHz Channel Width in 5 GHz	EAP TTLS PEAPv0
	PEAPv1
6 GHz Spectrum Capabilities	
20 MHz Channel Width in 6 GHz 40 MHz Channel Width in 6 GHz	WPA2™-Personal 2021-01
80 MHz Channel Width in 6 GHz	WPA3™-Enterprise 2020-02
160 MHz Channel Width in 6 GHz	
	EAP methods EAP TLS
Protected Management Frames	EAP TLS
	PEAPv0
Spectrum & Regulatory	PEAPv1



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Role: Station

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 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 Aware™

TCP/UDP NDP Initiator TCP/UDP NDP Responder Wi-Fi Aware pairing

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

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Wi-Fi CERTIFIED 6® (continued)

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



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Wi-Fi Optimized Connectivity™ 2020 (continued)

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 QoS Management™

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