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: WFA72793

Product Info

Date of Certification	April 9, 2018
Company	NXP Semiconductors
Product Name	Marvell 802.11ac Wave2 Wi-Fi Test Bed Evaluation Kit
Product Model Variant	2018-04-09 (WFA72793 - 7105244)
Model Number	EC8997-P
Category	Other
Sub-category	Reference Design

Summary of Certifications

CLASSIFICATION	CERTIFICATION
Alternative topologies	Wi-Fi Aware™
Network management	WMM® Wi-Fi Agile Multiband™ Wi-Fi Optimized Connectivity™ 2018
Security	Protected Management Frames WPA2™-Enterprise WPA2™-Personal 2017-10 WPA3™-Enterprise 2018-04 WPA3™-Personal 2018-04 Wi-Fi Enhanced Open™ 2018-04
Wi-Fi (MAC/PHY)	2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities Spectrum & Regulatory 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 Components

Wi-Fi Component Operating System

Linux

Wi-Fi Component Firmware

PCIE8997-3.28.18.p1-C4X16C518-GPL-(FP68)/ Mrvl-WFASigma_ver_Security_R0.1 (14:44:30 Apr 5 2018)

RF Architecture

Bands Supported	Transmit (Tx)	Receive (Rx)
2.4 GHz	2	2
5 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

Protected Management Frames

Spectrum & Regulatory

802.11h

WMM®

WPA2™-Enterprise

EAP methods
　EAP SIM
　EAP TLS

WPA2™-Enterprise (continued)

　EAP TTLS
　PEAPv0
　PEAPv1

WPA2™-Personal 2017-10

WPA3™-Enterprise 2018-04

EAP methods
　EAP SIM
　EAP TLS
　EAP TTLS
　PEAPv0
　PEAPv1
192-bit security
　192-bit security RSA 3K with the TLS_DHE_RSA_WITH_AES_256_GCM_SHA384 cipher suite
　192-bit security RSA 3K with the TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 cipher suite

WPA3™-Personal 2018-04

Wi-Fi Agile Multiband™

Wi-Fi Agile Multiband™ (continued)

ANQP
Beacon Report Measurement Active Mode
Beacon Report Measurement Passive Mode
BTM Query
Cellular Data capable
Fast Transition OTA on WPA2-Personal

Wi-Fi Aware™

Device Ranging

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ ac

Extended 5 GHz Channel Support
RTS with BW Signaling
A-MPDU with A-MSDU
DL MU-MIMO
LDPC Rx
MCS 8-9 Rx
Short Guard Interval
STBC
LDPC Tx
SU beamformee

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

STBC
A-MPDU Tx

Wi-Fi CERTIFIED™ n (continued)

HT Duplicate Mode
OBSS on Extension Channel
RIFS
Power Management
Short Guard Interval

Wi-Fi Enhanced Open™ 2018-04

Wi-Fi Optimized Connectivity™ 2018