



Wi-Fi CERTIFIED™ Interoperability 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: WFA81416 Page 1 of 2

Date of Last Certification	January 07, 2019
Company	Ruckus Wireless, Inc.
Product	Ruckus E510 / Virtual SmartZone
Model Number	E510/vSZ
Product Identifier(s)	
Category	Routers
Subcategory	Enterprise/Service Provider Access Point, Switch/Controller or Router
Hardware Version	Product: Rev.A1, Wi-Fi Component: Rev.A1
Firmware Version	Product: 5.0.0.7.113, Wi-Fi Component: 5.0.0.7.113
Operating System	Linux
Frequency Band(s)	2.4 GHz, 5 GHz - Concurrent

Summary of Certifications

CLASSIFICATION	PROGRAM
Connectivity	Wi-Fi CERTIFIED™ a, b, g, n, ac
	WPA™ – Enterprise, Personal
	WPA2™ – Enterprise, Personal
	WPA3™ – Enterprise, Personal
	Wi-Fi Enhanced Open™
Optimization	Wi-Fi Agile Multiband™
	Wi-Fi Optimized Connectivity™
	Wi-Fi Vantage™
Access	WMM®
	Passpoint®



Security

WPA™ – Enterprise, Personal
WPA2™ – Enterprise, Personal
WPA3™ – Enterprise, Personal (Jun 2018)
EAP Type(s)
Any EAP Type
192-bit Security
Protected Management Frames

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

2.4 GHz, 5 GHz - Concurrent
2 Spatial Streams 2.4 GHz
2 Spatial Streams 5 GHz
Short Guard Interval
TX A-MPDU
STBC Transmit
40 MHz operation in 5 GHz

Wi-Fi CERTIFIED™ ac

2 Spatial Streams 5 GHz
Rx MCS 8-9 (256-QAM)
Tx STBC 2x1
Rx A-MPDU of A-MSDU
Tx SU beamformer
Low Density Parity Check coding
Tx DL MU-MIMO
RTS with BW Signaling
Extended 5 GHz Channel Support

Wi-Fi Enhanced Open™

ECC Group 20

Wi-Fi Agile Multiband™

Steer to Cellular Data
Fast Transition: WPA2-Enterprise and WPA2-Personal

Wi-Fi Optimized Connectivity™

Fast Initial Link Setup Shared Key Authentication
Higher Layer Protocol Encapsulation

Wi-Fi Vantage™

Release 2

Wi-Fi Vantage™ (Release 1)

Wi-Fi Vantage™ (Release 2)

WMM®

Passpoint®

Release 2

Passpoint® (Release 2)

Online Signup (OSU) and Policy Provisioning

Spectrum and Regulatory Features

802.11d
802.11h