



# 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](http://www.wi-fi.org/certification/programs)



**Certification ID: WFA81425**

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<b>Date of Last Certification</b>	January 07, 2019
<b>Company</b>	Ruckus Wireless, Inc.
<b>Product</b>	Ruckus R510 / SmartZone 100
<b>Model Number</b>	R510/SZ100
<b>Product Identifier(s)</b>	
<b>Category</b>	Routers
<b>Subcategory</b>	Enterprise/Service Provider Access Point, Switch/Controller or Router
<b>Hardware Version</b>	Product: Rev.A1, Wi-Fi Component: Rev.A1
<b>Firmware Version</b>	Product: 5.0.0.7.113, Wi-Fi Component: 5.0.0.7.113
<b>Operating System</b>	Linux
<b>Frequency Band(s)</b>	2.4 GHz, 5 GHz - Concurrent

## Summary of Certifications

<b>CLASSIFICATION</b>	<b>PROGRAM</b>
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