# 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: WFA101401

## Product Info

| | |
|---|---|
| **Date of Certification** | September 1, 2020 |
| **Company** | Ruckus Wireless, Inc. |
| **Product Name** | Ruckus R850 / SmartZone 100 |
| **Product Model Variant** | 2020-09-01 (WFA101401 - 11475661) |
| **Model Number** | R850/SZ100 |
| **Category** | Routers |
| **Sub-category** | Enterprise/Service Provider Access Point, Switch/Controller or Router |

## Summary of Certifications

| CLASSIFICATION | CERTIFICATION |
|---|---|
| **Access** | Passpoint® Release 2 |
| **Connectivity** | 2.4 GHz Spectrum Capabilities<br>5 GHz Spectrum Capabilities<br>Wi-Fi CERTIFIED 6®<br>Wi-Fi CERTIFIED™ a<br>Wi-Fi CERTIFIED™ ac<br>Wi-Fi CERTIFIED™ b<br>Wi-Fi CERTIFIED™ g<br>Wi-Fi CERTIFIED™ n<br>Wi-Fi Enhanced Open™ 2018-04 |
| **Optimization** | WMM®<br>Wi-Fi Agile Multiband™<br>Wi-Fi Optimized Connectivity™ 2018<br>Wi-Fi Vantage™ Release 2 |
| **Security** | Protected Management Frames<br>WPA2™-Enterprise 2018-04<br>WPA2™-Personal 2018-04<br>WPA3™-Enterprise 2019-12<br>WPA3™-Personal 2019-12 |

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| CLASSIFICATION | CERTIFICATION |
|---|---|
| Spectrum & Regulatory Features | Spectrum & Regulatory |

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## Wi-Fi Components

### Wi-Fi Component Operating System

Linux

### Wi-Fi Component Firmware

5.2.1.7.22

### RF Architecture

| Bands Supported | Transmit (Tx) | Receive (Rx) |
| --- | --- | --- |
| 2.4 GHz | 4 | 4 |
| 5 GHz | 8 | 8 |

## 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

### Passpoint® Release 2

Online Sign Up and Policy provisioning

### Protected Management Frames

### Spectrum & Regulatory

802.11d
802.11h

### WMM®

### WPA2™-Enterprise 2018-04

EAP methods

### WPA2™-Personal 2018-04

### WPA3™-Enterprise 2019-12

EAP methods
192-bit security

### WPA3™-Personal 2019-12

### Wi-Fi Agile Multiband™

Automatically populate BSS Transition candidate list
Cellular Data aware
Fast Transition OTA on WPA2-Enterprise
Fast Transition OTA on WPA2-Personal

### Wi-Fi CERTIFIED 6®

4 antenna support
A-MPDU with A-MSDU

### Wi-Fi CERTIFIED 6® (continued)

Basic Trigger frame in HE MU PPDU

Beamforming sounding

BSRP Trigger frame

Compressed Block Ack Rx (buffer size 256)

Compressed Block Ack Tx (buffer size 256)

DL MU-MIMO

DL OFDMA

Individual Target Wake Time

LDPC Rx

LDPC Tx

MCS 8-9 Rx

MCS 8-9 Tx

MCS 10-11 Rx

MCS 10-11 Tx

MU EDCA Parameter Set element

MU-BAR Trigger frame

Operating mode subfield in A-Control field

Operating mode indication

Operating mode UL MU Rx

SU beamformer

SU-MIMO

TXOP RTS Threshold

UL OFDMA

### Wi-Fi CERTIFIED™ a

### Wi-Fi CERTIFIED™ ac

RTS with BW Signaling

Extended 5 GHz Channel Support

A-MPDU with A-MSDU

DL MU-MIMO

LDPC Rx

LDPC Tx

MCS 8-9 Rx

### Wi-Fi CERTIFIED™ ac (continued)

Short Guard Interval

STBC

SU beamformer

### Wi-Fi CERTIFIED™ b

### Wi-Fi CERTIFIED™ g

### Wi-Fi CERTIFIED™ n

OBSS on Extension Channel

Short Guard Interval

STBC

A-MPDU Tx

### Wi-Fi Enhanced Open™ 2018-04

### Wi-Fi Optimized Connectivity™ 2018

FILS Indication Element support

FILS Higher Layer Protocol with DHCP v4 Rapid Commit

FILS Higher Layer Protocol with DHCP v4 Rapid Commit using an external DHCP server

Reduced Neighbor Report included in FILS Discovery frames

Reduced Neighbor Report includes all neighboring BSS

### Wi-Fi Vantage™ Release 2