



This certificate lists the features that have successfully completed Wi-Fi Alliance interoperability testing. Learn more: www.wi-fi.org

Certification ID: WFA16990

Product Info

Date of Certification August 28, 2014

Company Realtek Semiconductor Corporation

Product Name Realtek RTL8812AE 2T2R 802.11ac/a/b/g/n miniCard

Product Model Variant 2014-08-28 (WFA16990 - 2201608)

Model Number RTL8812AE

Category Other

Sub-category Embedded Module

Summary of Certifications

CLASSIFICATION CERTIFICATION

Access Wi-Fi Protected Setup™

Alternative topologies Wi-Fi Direct®

Applications Miracast®

Network management WMM®

Security WPA2[™]-Enterprise

WPA2™-Personal

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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Role: Station Page 2 of 5

Wi-Fi Components

Wi-Fi Component Operating System

Windows 7, version:Win7 x86

Wi-Fi Component Firmware

7010.8.321.2014

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

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ ac

A-MPDU with A-MSDU LDPC Rx

MCS 8-9 Rx

Short Guard Interval

STBC

LDPC Tx

SU beamformee

Spectrum & Regulatory

802.11h

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

WMM®

WPA2™-Enterprise

EAP methods EAP TLS

PEAPv0

Wi-Fi CERTIFIED™ n

A-MPDU Tx

RIFS

Short Guard Interval

Wi-Fi Direct®

Wi-Fi Direct Services

WPA2™-Personal



Pushbutton

Wi-Fi CERTIFIED® Certificate

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Wi-Fi Direct® (continued)

Wi-Fi Direct Send - Transmit
Wi-Fi Direct Send - Receive
Wi-Fi Direct for DLNA® - Receive
Miracast - Display
Miracast - Source
Wi-Fi Direct Toolkit

Wi-Fi Protected Setup™

PIN



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Role: Source	Page 4 of 5		
Wi-Fi Components			
Wi-Fi Component Operating System	RF Architecture		
Windows 7, version:Win7 x86	Bands Supported	Transmit (Tx)	Receive (Rx)
Wi-Fi Component Firmware	2.4 GHz	2	2
7010.8.321.2014	5 GHz	2	2
Certifications			
Certifications			
Miracast®			



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Role: Display	Page 5 of 5		
Wi-Fi Components			
Wi-Fi Component Operating System	RF Architecture		
Windows 7, version:Win7 x86	Bands Supported	Transmit (Tx)	Receive (Rx)
Wi-Fi Component Firmware 7010.8.321.2014	2.4 GHz	2	2
7010.8.321.2014	5 GHz	2	2
Certifications			
Miracast®			