



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: WFA16990

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Date of Last Certification	August 28, 2014
Company	Realtek Semiconductor Corporation
Product	Realtek RTL8812AE 2T2R 802.11 ac/a/b/g/n miniCard
Model Number	RTL8812AE
Product Identifier(s)	
Category	Other
Subcategory	Embedded Module
Hardware Version	Product: 1v1, Wi-Fi Component: 1v1
Firmware Version	Product: 7010.8.321.2014, Wi-Fi Component: 7010.8.321.2014
Operating System	Windows 7: Unspecified, version: Win7 x86
Frequency Band(s)	2.4 GHz, 5 GHz

Summary of Certifications

CLASSIFICATION	PROGRAM
Connectivity	Wi-Fi CERTIFIED™ a, b, g, n, ac WPA™ – Enterprise, Personal WPA2™ – Enterprise, Personal Wi-Fi Direct®
Optimization	WMM®
Access	Wi-Fi Protected Setup™
Applications & Services	Miracast® - Display, Source



Security

WPA™ – Enterprise, Personal
WPA2™ – Enterprise, Personal
EAP Type(s)
EAP-TLS
PEAPv0/EAP-MSCHAPv2

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

2.4 GHz, 5 GHz
1 Spatial Stream 2.4 GHz
1 Spatial Stream 5 GHz
Short Guard Interval
TX A-MPDU
40 MHz operation in 2.4 GHz, with coexistence mechanisms
40 MHz operation in 5 GHz

Wi-Fi CERTIFIED™ ac

1 Spatial Stream 5 GHz
Rx MCS 8-9 (256-QAM)
Rx STBC 2x1
Rx A-MPDU of A-MSDU
Low Density Parity Check coding
Tx SU beamformee

Wi-Fi Direct®

2.4 GHz, 5 GHz
Wi-Fi Direct Send – Transmit, Receive
Wi-Fi Direct Send – Receive
Wi-Fi Direct for DLNA® – Receive
Miracast – Display, Source
Miracast – Display
Wi-Fi Direct Toolkit

WMM®

Miracast®

Release 1
Display Device
Source Device

Wi-Fi Protected Setup™

2.4 GHz, 5 GHz
PIN

Miracast® - Display

Spectrum and Regulatory Features

802.11h

