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: WFA57190

Product Info

Date of Certification	November 21, 2014
Company	Qualcomm
Product Name	Qualcomm Atheros QCA9377 Wireless Network Adapter
Product Model Variant	2014-11-21 (WFA57190 - 2418449)
Model Number	NFA435
Category	Other
Sub-category	Reference Design

Summary of Certifications

CLASSIFICATION	CERTIFICATION
Access	Wi-Fi Protected Setup™
Applications & Services	Voice-Personal
Connectivity	2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ ac Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n Wi-Fi Direct®
Optimization	WMM® WMM®-Power Save
Security	Protected Management Frames WPA2™-Enterprise WPA2™-Personal
Spectrum & Regulatory Features	Spectrum & Regulatory

Wi-Fi Components

Wi-Fi Component Operating System

Proprietary / Other, description:Win8.1

Wi-Fi Component Firmware

Tufello_SW_x86_BIT_PKG_01.00.068
(CNSS.TF.1.0-00153+CNSS.WH_RM.1.0-
00430)

RF Architecture

Bands Supported	Transmit (Tx)	Receive (Rx)
2.4 GHz	1	1
5 GHz	1	1

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

Protected Management Frames

Spectrum & Regulatory

802.11h

Voice-Personal

WMM®

WMM®-Power Save

Legacy Power Save

WMM®-Power Save (continued)

Unschedule auto PS

WPA2™-Enterprise

EAP methods
  EAP TLS
  EAP TTLS
  PEAPv0

WPA2™-Personal

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

Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA57190

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

STBC
A-MPDU Tx
OBSS on Extension Channel
RIFS
Power Management
Short Guard Interval

Wi-Fi Direct®

Wi-Fi Protected Setup™

PIN
Pushbutton