



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: WFA55249

Product Info

Date of Certification	July 17, 2014
Company	Qualcomm
Product Name	Qualcomm Atheros QCA61x4 Wireless Network Adapter
Product Model Variant	2014-07-17 (WFA55249 - 2095818)
Model Number	NFA354
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 WPA™-Personal
Spectrum & Regulatory Features	Spectrum & Regulatory



Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA55249



Role: Station

Page 2 of 3

Wi-Fi Components

Wi-Fi Component Operating System

Proprietary / Other, description:Win8.1

Wi-Fi Component Firmware

X86_Host_100258_FW_1.1-00088

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

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

WPA™-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



Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA55249



Role: Station

Page 3 of 3

Wi-Fi CERTIFIED™ ac (continued)

SU beamformee

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