



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: WFA55195

Product Info

| | |
|------------------------------|---|
| Date of Certification | July 17, 2014 |
| Company | Qualcomm |
| Product Name | Qualcomm Atheros QCA61x4 Wireless Network Adapter |
| Product Model Variant | 2014-07-17 (WFA55195 - 2095944) |
| Model Number | NFA345 |
| 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 CERTIFIED™ Certificate

Certification ID: WFA55195



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 | 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: WFA55195



Role: Station

Page 3 of 3

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