



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: WFA63130

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Date of Last Certification	April 15, 2019
Company	Qualcomm
Product	IPQ8065 802.11ac 4-stream Dual-band Dual-concurrent Router
Model Number	CA-65-Y9345-PASSPT
Product Identifier(s)	
Category	Other
Subcategory	Reference Design
Hardware Version	Product: IPQ8065/AP161, Wi-Fi Component: QCA9984/5
Firmware Version	Product: IPQ8064.ILQ.6.1.1.r2-00006-P-1, Wi-Fi Component: IPQ8064.ILQ.6.1.1.r2-00006-P-1
Operating System	Linux
Frequency Band(s)	2.4 GHz, 5 GHz - Switchable

Summary of Certifications

CLASSIFICATION	PROGRAM
Connectivity	Wi-Fi CERTIFIED™ a, b, g, n, ac
	WPA™ – Enterprise, Personal
	WPA2™ – Enterprise, Personal
	WPA3™ – Enterprise, Personal
	Wi-Fi Enhanced Open™
Optimization	Wi-Fi Agile Multiband™
	Wi-Fi Optimized Connectivity™
	WMM®
Access	Passpoint®
	Wi-Fi Easy Connect™



Security

WPA™ – Enterprise, Personal
WPA2™ – Enterprise, Personal
WPA3™ – Enterprise, Personal
EAP Type(s)
EAP-TLS
EAP-TTLS/MSCHAPv2
PEAPv0/EAP-MSCHAPv2
PEAPv1/EAP-GTC
EAP-SIM
EAP-AKA
EAP-AKA Prime
EAP-FAST
Protected Management Frames
192-bit Security

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

2.4 GHz, 5 GHz - Switchable
3 Spatial Streams 2.4 GHz
3 Spatial Streams 5 GHz
Short Guard Interval
TX A-MPDU
STBC Transmit
40 MHz operation in 2.4 GHz, with coexistence mechanisms
40 MHz operation in 5 GHz

Wi-Fi CERTIFIED™ ac

4 Spatial Streams 5 GHz
Rx MCS 8-9 (256-QAM)
Tx STBC 2x1
Rx A-MPDU of A-MSDU
Tx SU beamformer
Low Density Parity Check coding
Tx DL MU-MIMO
RTS with BW Signaling
Rx 160 MHz operations

Wi-Fi Enhanced Open™

ECC Group 20

Wi-Fi Agile Multiband™

Steer to Cellular Data
Fast Transition: WPA2-Enterprise and WPA2-Personal

Wi-Fi Optimized Connectivity™

Estimated Service Parameters
Fast Initial Link Setup Shared Key Authentication
Higher Layer Protocol Encapsulation

WMM®

Wi-Fi Easy Connect™

Bootstrapping: Human-Readable String

Passpoint®

Release 3

Spectrum and Regulatory Features

802.11d
802.11h