

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: WFA130572

Product Info

Date of Certification	April 19, 2024
Company	NXP Semiconductors
Product Name	W8997
Product Model Variant	8997-Linux
Model Number	W8997
Category	Other
Sub-category	Reference Design

Summary of Certifications

CLASSIFICATION	CERTIFICATION
Access	Wi-Fi Protected Setup™
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®
Security	Protected Management Frames WPA2 [™] -Enterprise 2018-04 WPA2 [™] -Personal 2021-01 WPA3 [™] -Enterprise 2022-12 WPA3 [™] -Personal 2022-06
Spectrum & Regulatory Features	Spectrum & Regulatory



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Role: Access Point	ole: Access Point Page 2 of 4				
Wi-Fi Components	RF Architecture				
Wi-Fi Component Operating System Linux Wi-Fi Component Firmware p119.3	Bands Supported 2.4 GHz 5 GHz	Transmit (Tx) 2 2	Receive (Rx) 2 2		
Certifications					
2.4 GHz Spectrum Capabilities	WPA3™-Personal 2022-06				
20 MHz Channel Width in 2.4 GHz 40 MHz Channel Width in 2.4 GHz	Wi-Fi CERTIFIED ^T	ма			
	Wi-Fi CERTIFIED [™]	Wi-Fi CERTIFIED™ ac			
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	A-MPDU with A-MSDU Extended 5 GHz Chann LDPC Rx LDPC Tx MCS 8-9 Rx RTS with BW Signaling	Extended 5 GHz Channel Support LDPC Rx LDPC Tx MCS 8-9 Rx			
Protected Management Frames	Short Guard Interval				
Spectrum & Regulatory					
802.11d	Wi-Fi CERTIFIED ^T	™ b			
802.11h	Wi-Fi CERTIFIED ^T	[™] g			
WMM®	Wi-Fi CERTIFIED ^T	[™] n			
Max Throughput	A-MPDU Tx				

WPA2[™]-Personal 2021-01

A-MPDU Tx HT Duplicate Mode OBSS on Extension Channel Short Guard Interval



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Role: Station		Pa	age 3 of 4	
Wi-Fi Components				
Wi-Fi Component Operating System	RF Architecture			
Linux	Bands Supported	Transmit (Tx)	Receive (Rx)	
Wi-Fi Component Firmware	2.4 GHz	2	2	
p119.3	5 GHz	2	2	
Certifications				
2.4 GHz Spectrum Capabilities	WPA2™-Enterprise	WPA2™-Enterprise 2018-04 (continued)		
20 MHz Channel Width in 2.4 GHz 40 MHz Channel Width in 2.4 GHz	EAP methods EAP TLS EAP TTLS			
5 GHz Spectrum Capabilities	PEAPv0 PEAPv1			
20 MHz Channel Width in 5 GHz 40 MHz Channel Width in 5 GHz 80 MHz Channel Width in 5 GHz	WPA2™-Personal 2	WPA2™-Personal 2021-01		
	WPA3™-Enterprise	e 2022-12		
Protected Management Frames	EAP methods			
Spectrum & Regulatory	EAP TLS EAP TTLS			
802.11d 802.11h	PEAPv0 PEAPv1 192-bit security			
WMM®	192-bit security RSA TLS_DHE_RSA_WIT suite		_SHA384 cipher	
Max Throughput	192-bit security RSA TLS_ECDHE_RSA_V cipher suite		CM_SHA384	
WPA2™-Enterprise 2018-04	Server Certificate Validat	ion		
	WPA3™-Personal 2	2022-06		

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Role: Station

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Wi-Fi CERTIFIED™ ac

Extended 5 GHz Channel Support RTS with BW Signaling A-MPDU with A-MSDU DL MU-MIMO LDPC Rx MCS 8-9 Rx Short Guard Interval LDPC Tx SU beamformee

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

A-MPDU Tx HT Duplicate Mode OBSS on Extension Channel Power Management Short Guard Interval

Wi-Fi Direct®

Wi-Fi Protected Setup™

PIN Pushbutton

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