



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: WFA78954

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Date of Last Certification	August 24, 2018
Company	Espressif Inc.
Product	Wi-Fi & Bluetooth Internet of Things Module
Model Number	ESP32-WROOM-32
Product Identifier(s)	
Category	Gaming, Media & Music
Subcategory	Digital Audio - Stationary (speakers, receiver, MP3 player)
Hardware Version	Product: V2.0.0, Wi-Fi Component: V2.0.0
Firmware Version	Product: V1.0.0, Wi-Fi Component: V1.0.0
Operating System	Proprietary / Other: FreeRTOS , version: V8.2.0
Frequency Band(s)	2.4 GHz

Summary of Certifications

CLASSIFICATION	PROGRAM
Connectivity	Wi-Fi CERTIFIED™ b, g, n WPA™ – Enterprise, Personal WPA2™ – Enterprise, Personal
Optimization	WMM®
Access	Wi-Fi Protected Setup™



Security

WPA™ – Enterprise, Personal
WPA2™ – Enterprise, Personal
EAP Type(s)
EAP-TLS
EAP-TTLS/MSCHAPv2
PEAPv0/EAP-MSCHAPv2

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

2.4 GHz
1 Spatial Stream 2.4 GHz
Short Guard Interval
TX A-MPDU
STBC Receive
40 MHz operation in 2.4 GHz, with coexistence mechanisms
Reduced Interframe Space (RIFS)

WMM®

Wi-Fi Protected Setup™

2.4 GHz
PIN
Push-Button (PBC)