



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: WFA69503

Product Info

Date of Certification	January 4, 2017
Company	Espressif Systems (Shanghai) Co., Ltd.
Product Name	ESP32 Lyra Speaker
Product Model Variant	2017-01-04 (WFA69503 - 4925893)
Model Number	ESP-WROOM-32
Category	Gaming, Media & Music
Sub-category	Digital Audio - Stationary (speakers, receiver, MP3 player)

Summary of Certifications

CLASSIFICATION	CERTIFICATION
Access	Wi-Fi Protected Setup™
Connectivity	2.4 GHz Spectrum Capabilities Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n
Optimization	WMM®
Security	WPA2™-Enterprise WPA2™-Personal WPA™-Enterprise WPA™-Personal



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Role: Station

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Wi-Fi Components

Wi-Fi Component Operating System

Proprietary / Other, version:V8.2.0,
description:FreeRTOS

Wi-Fi Component Firmware

V1.0.0

RF Architecture

Bands Supported	Transmit (Tx)	Receive (Rx)
2.4 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

WMM®

WPA2™-Enterprise

EAP methods
EAP TLS
EAP TTLS
PEAPv0

WPA2™-Personal

WPA™-Enterprise

WPA™-Personal

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

STBC

Wi-Fi CERTIFIED™ n (continued)

A-MPDU Tx
RIFS
Short Guard Interval

Wi-Fi Protected Setup™

PIN
Pushbutton