



# 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](http://www.wi-fi.org/certification/programs)

**Certification ID: WFA100159**

## Product Info

Date of Certification	August 10, 2022
Company	Calix Inc.
Product Name	GS4227E
Product Model Variant	2022-08-09add passpoint
Model Number	GS4227E
Category	Routers
Sub-category	Access Point for Home or Small Office (Wireless Router)

## Summary of Certifications

CLASSIFICATION	CERTIFICATION
Access	Passpoint® Release 3
Connectivity	2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities Wi-Fi CERTIFIED 6® Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ ac Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n
Optimization	WMM® Wi-Fi Agile Multiband™
Security	Protected Management Frames WPA2™-Enterprise 2018-04 WPA2™-Personal 2021-01 WPA3™-Enterprise 2020-02 WPA3™-Personal 2020-12 WPA™-Enterprise WPA™-Personal



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## Summary of Certifications (continued)

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### CLASSIFICATION

### CERTIFICATION

Spectrum & Regulatory  
Features

Spectrum & Regulatory



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Role: Access Point

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### Wi-Fi Components

#### Wi-Fi Component Operating System

Linux, version:Openwrt

#### Wi-Fi Component Firmware

1.258406.1.279668.1 v2

#### RF Architecture

Bands Supported	Transmit (Tx)	Receive (Rx)
2.4 GHz	2	2
5 GHz	4	4

### 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

#### Passpoint® Release 3

Online Sign Up and Policy provisioning  
Online Sign Up using single SSID  
Roaming Consortium Selection  
Venue Information  
Terms and Conditions

#### Protected Management Frames

#### Spectrum & Regulatory

802.11d

#### Spectrum & Regulatory (continued)

802.11h

#### WMM®

#### WPA2™-Enterprise 2018-04

EAP methods

#### WPA2™-Personal 2021-01

#### WPA3™-Enterprise 2020-02

EAP methods

#### WPA3™-Personal 2020-12

#### WPA™-Enterprise

#### WPA™-Personal

#### Wi-Fi Agile Multiband™



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### Wi-Fi Agile Multiband™ (continued)

Automatically populate BSS Transition candidate list  
Cellular Data aware

### Wi-Fi CERTIFIED 6®

4 antenna support  
A-MPDU with A-MSDU  
Basic Trigger frame in HE MU PPDU  
BSRP Trigger frame  
Compressed Block Ack Rx (buffer size 256)  
Compressed Block Ack Tx (buffer size 256)  
DL MU-MIMO  
DL OFDMA  
Individual Target Wake Time  
LDPC Rx  
LDPC Tx  
MCS 8-9 Rx  
MCS 8-9 Tx  
MU EDCA Parameter Set element  
MU-BAR Trigger frame  
MU-RTS Trigger frame  
M-BSSID  
Operating Mode indication  
SU beamformer  
TXOP RTS Threshold  
UL OFDMA

### Wi-Fi CERTIFIED™ a

### Wi-Fi CERTIFIED™ ac

RTS with BW Signaling  
Extended 5 GHz Channel Support  
A-MPDU with A-MSDU  
DL MU-MIMO

### Wi-Fi CERTIFIED™ ac (continued)

LDPC Rx  
LDPC Tx  
MCS 8-9 Rx  
Short Guard Interval  
STBC  
SU beamformer

### Wi-Fi CERTIFIED™ b

### Wi-Fi CERTIFIED™ g

### Wi-Fi CERTIFIED™ n

OBSS on Extension Channel  
Short Guard Interval  
STBC  
A-MPDU Tx