

# 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: WFA128549

## **Product Info**

Date of Certification	October 31, 2023
Company	Grandstream Networks, Inc.
Product Name	802.11ax Wi-Fi 6 Access Point
Product Model Variant	GWN7660E
Model Number	GWN7660E
Category	Routers
Sub-category	Enterprise/Service Provider Access Point, Switch/Controller or Router

## **Summary of Certifications**

CLASSIFICATION	CERTIFICATION
Access	Passpoint® Release 3
Network management	WMM® Wi-Fi Agile Multiband™
Security	Protected Management Frames WPA2 <sup>™</sup> -Enterprise 2018-04 WPA2 <sup>™</sup> -Personal 2021-01 WPA3 <sup>™</sup> -Enterprise 2022-12 WPA3 <sup>™</sup> -Personal 2022-06
Wi-Fi (MAC/PHY)	<ul> <li>2.4 GHz Spectrum Capabilities</li> <li>5 GHz Spectrum Capabilities</li> <li>Spectrum &amp; Regulatory</li> <li>Wi-Fi CERTIFIED 6®</li> <li>Wi-Fi CERTIFIED™ a</li> <li>Wi-Fi CERTIFIED™ ac</li> <li>Wi-Fi CERTIFIED™ b</li> <li>Wi-Fi CERTIFIED™ g</li> <li>Wi-Fi CERTIFIED™ n</li> </ul>

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## **Role: Access Point**

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Wi-Fi Components			
Wi-Fi Component Operating System	<b>RF Architecture</b>		
linux version:5.4.225	Bands Supported	Transmit (Tx)	Receive (Rx)
Wi-Fi Component Firmware	2.4 GHz	2	2
	5 GHz	3	3

### Certifications

2.4 GHz Spectrum Capabilities	WMM®	
20 MHz Channel Width in 2.4 GHz	WPA2™-Enterprise 2018-04	
40 MHz Channel Width in 2.4 GHz	EAP methods	
5 GHz Spectrum Capabilities		
20 MHz Channel Width in 5 GHz	WPA2™-Personal 2021-01	
40 MHz Channel Width in 5 GHz 80 MHz Channel Width in 5 GHz	WPA3™-Enterprise 2022-12	
160 MHz Channel Width in 5 GHz	EAP methods	
	192-bit security	
Passpoint® Release 3	WPA3™-Personal 2022-06	
Roaming Consortium Selection		
Terms and Conditions Venue Information	Wi-Fi Agile Multiband™	
vende miorriadon	Automatically populate BSS Transition candidate list	
Protected Management Frames		
Spectrum & Regulatory	Wi-Fi CERTIFIED 6®	
Spectrum & Regulatory	A-MPDU with A-MSDU	
802.11d	Basic Trigger frame in HE MU PPDU	
802.11h	BSRP Trigger frame	

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#### Wi-Fi CERTIFIED 6® (continued)

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 MCS 10-11 Rx MCS 10-11 Tx MU EDCA Parameter Set element MU-BAR Trigger frame **MU-RTS** Trigger frame M-BSSID Operating mode subfield in A-Control field Operating mode indication Operating mode UL MU Rx SU beamformer SU-MIMO **TXOP RTS Threshold UL OFDMA** 

#### Wi-Fi CERTIFIED™ ac (continued)

SU beamformer

#### Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

#### Wi-Fi CERTIFIED™ n

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

#### Wi-Fi CERTIFIED™ a

#### Wi-Fi CERTIFIED™ ac

A-MPDU with A-MSDU DL MU-MIMO Extended 5 GHz Channel Support LDPC Rx LDPC Tx MCS 8-9 Rx Short Guard Interval STBC

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