

# 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 ID: WFA129250**

# **Product Info**

Date of Certification January 19, 2024

**Company** Grandstream Networks, Inc.

Product Name Long-Range Enterprise Wi-Fi 6 Access Point

Product Model Variant GWN7660ELR

Model Number GWN7660ELR

**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) 2.4 GHz Spectrum Capabilities

5 GHz Spectrum Capabilities

Spectrum & Regulatory
Wi-Fi CERTIFIED 6®
Wi-Fi CERTIFIED™ a
Wi-Fi CERTIFIED™ b
Wi-Fi CERTIFIED™ g
Wi-Fi CERTIFIED™ n



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## Wi-Fi Components

**Wi-Fi Component Operating System** 

Linux 5.4.164

Wi-Fi Component Firmware

0.4.11.4(init)

## **RF Architecture**

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

#### 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 160 MHz Channel Width in 5 GHz

# Passpoint® Release 3

Roaming Consortium Selection Terms and Conditions Venue Information

**Spectrum & Regulatory** 

#### **Protected Management Frames**

802.11d 802.11h

#### **WMM®**

## WPA2™-Enterprise 2018-04

EAP methods

#### WPA2™-Personal 2021-01

## WPA3™-Enterprise 2022-12

EAP methods 192-bit security

#### WPA3™-Personal 2022-06

## Wi-Fi Agile Multiband™

Automatically populate BSS Transition candidate list Cellular Data aware

#### Wi-Fi CERTIFIED 6®

A-MPDU with A-MSDU Basic Trigger frame in HE MU PPDU



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# Wi-Fi CERTIFIED 6® (continued)

BSRP Trigger frame

Compressed Block Ack Rx (buffer size 256)

Compressed Block Ack Tx (buffer size 256)

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™ a

#### Wi-Fi CERTIFIED™ ac

A-MPDU with A-MSDU

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

A-MPDU Tx

**OBSS** on Extension Channel

Short Guard Interval

STBC