



# Partner Marketing Kit



**GWN Series Wi-Fi 6 Access Points**

# GWN Series Wi-Fi 6 Access Points

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# GWN Series Wi-Fi 6 Access Points



Grandstream's powerful Wi-Fi Access Points offer high performance networking, tremendous Wi-Fi coverage range, fast and easy provisioning/management thanks to a built-in controller, outstanding network throughput and support for a large number of clients per AP. The GWN series now offers Wi-Fi 6, the latest and greatest standard for Wi-Fi technology. It was created to support the modern generation of dense environments where many users and many devices require consistent and reliable Wi-Fi connections. Wi-Fi 6 technology maximizes the amount of signals an access point and router can send and receive at the same time, allowing them to communicate with more devices at the same time and to send data to multiple devices in the same broadcast. It is ideal for the modern generation of connected and smart devices.

# GWN Series Wi-Fi 6 Access Points

## *Wi-Fi 6 Alliance*

Wi-Fi Alliance® is the worldwide network of companies bringing you Wi-Fi®, one of the world's most valued communications technologies. Our vision is to connect everyone and everything, everywhere.

Wi-Fi Alliance drives global Wi-Fi adoption and evolution through thought leadership, spectrum advocacy, and industry-wide collaboration.

Grandstream's Wi-Fi 6 access points have been CERTIFIED, meaning they have undergone rigorous testing. When a product passes the tests successfully, the manufacturer can use the Wi-Fi CERTIFIED logo.

Certification means that a product has been tested in numerous configurations with a diverse sample of other devices to validate interoperability with other CERTIFIED Wi-Fi equipment operating in the same frequency band.



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# GWN Series Wi-Fi 6 Access Points

## Sales Kit

The sales kit is a guide to everything you need to know about selling the GWN Series Wi-Fi 6 Access Points. The kit includes: Overview and Basics, Key Differentiators, Comparison Charts, Deployment Scenarios, and Integration with other Grandstream Products.

## Translations

[English](#)

Grandstream Wi-Fi 6 APs  
GWN Series

**What Makes Wi-Fi 6 Great?**

Wi-Fi 6 is the latest and greatest standard for Wi-Fi technology. It was created to support the modern generation of dense environments where many users and many devices require consistent and reliable Wi-Fi connections. Wi-Fi 6 technology maximizes the amount of signals an access point and router can send and receive at the same time, allowing them to communicate with more devices at the same time and to send data to multiple devices in the same broadcast. It is ideal for the modern generation of connected and smart devices.

OFDMA Technology

- One of the biggest additions to Wi-Fi 6
- OFDMA directly impacts uplink and downlink streams and
- Controls how client devices are connected to the access point and bandwidth prioritization.
- Organizes bandwidth usage by client devices into Resource Units
- Resource units are what allows the access point to carry multiple services for different needs simultaneously
- Ideal for deployments with a wide variety of device types (VoIP phones, laptops, IoT, etc.)

MU-MIMO and Wi-Fi 6

- Introduced on Wi-Fi 5 but improved with Wi-Fi 6
- Wi-Fi 6 MU-MIMO enables all devices to communicate with the access point simultaneously
- The advantage of this is improved performance of each spatial stream.
- Each access point you deploy will experience increased efficiency in environments with multiple simultaneous users, along with a slight decrease in client latency.
- Improved MU-MIMO means less total access points needed in a solution, which makes for a less expensive Wi-Fi 6 deployment.

**GWN Series & Wi-Fi 6**

This sales kit includes all of Grandstream's Wi-Fi 6 APs while providing the insight needed to communicate & sell GWN series Wi-Fi 6 APs.

	GWN7660	GWN7660LR	GWN7664
Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/ax (Wi-Fi 6)		
MU-MIMO	2x2:2		
Coverage Range	Up to 175 meters	Up to 250 meters	Up to 175 meters
Concurrent Clients	256+	256+	512
Network Interfaces	2x Gigabit ports	2x Gigabit ports	1x 1G Port and 1x 2.5G Port
Throughput	1.77 Gbps	1.77 Gbps	3.5 Gbps

MIMO with DL/UL OFDMA technology and a sophisticated antenna design for maximum coverage range. To ensure easy installation and management, the GWN7660 uses a controller in which the controller is embedded within the products Web user interface. The GWN7660 is an effective solution for high density deployments.

**Competitive Features**

- 1.77Gbps aggregate wireless throughput and 2xGigabit wireline ports
- Dual-band 2x2:2 MU-MIMO technology
- DL/UL OFDMA technology
- Supports 256+ concurrent Wi-Fi client devices
- Up to 175-meter coverage range
- Self power adaptation upon auto-detection of PoE/PoE+
- Anti-hacking secure boot and critical data/control lockdown via digital signatures
- Embedded controller can manage up to 50 local GWN series APs; GWN.Cloud offers unlimited AP management; GWN.Manager offers premise-based software controller

Grandstream's Wi-Fi capable IP phones.

Supports 256+ concurrent Wi-Fi client devices

Up to 175-meter coverage range

Self power adaptation upon auto-detection of PoE or PoE+

**GWN7660 Key Technical Specifications**

Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/ax (Wi-Fi 6)
Antennas	2 dual band internal antennas 2.4GHz: gain 3dBi; 5 GHz: gain 3dBi
Frequency Bands	2.4GHz radio: 2412 - 2484 GHz / 5GHz radio: 5180 - 5825 GHz
Coverage Range	Up to 175 meters <small>*coverage range can vary based on environment</small>
Wi-Fi and System Security	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise, anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate and random default password per device
Concurrent Clients	256+
Network Interfaces	2 x autosensing 10/100/1000 Base-T Ethernet Ports

# GWN Series Wi-Fi 6 Access Points

## *Presentation*

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## Translations

[English \(PowerPoint\)](#)

[English \(PDF\)](#)

# GWN Series Wi-Fi 6 Access Points

## Product Messaging - GWN7660

<b>Tagline</b>	GWN 2x2:2 Wi-Fi 6 Indoor Access Point		
<b>Subhead</b>	The GWN7660 is an enterprise-grade 802.11ax Wi-Fi 6 access point that allows businesses to build next-generation Wi-Fi networks for high-density environments.		
<b>Target Audience</b>	Dense Wi-Fi environments such as medium-to-large offices, schools, colleges/universities, hotels, convention centers, stadiums, gymnasiums, auditoriums and more.		
<b>Product Description</b>	The GWN7660 offers dual-band 2x2:2 MU-MIMO with DL/UL OFDMA technology and a sophisticated antenna design for maximum network throughput and expanded Wi-Fi coverage range. To ensure easy installation and management, the GWN7660 uses a controller-less distributed network management design in which the controller is embedded within the product's Web user interface. The GWN7660 is also supported by GWN.Cloud and GWN Manager, Grandstream's cloud and on-premise Wi-Fi management platform. It is the ideal Wi-Fi AP for voice-over-Wi-Fi deployments and offers a seamless connection with Grandstream's Wi-Fi capable IP phones. With support for advanced QoS, low-latency real-time applications, mesh networks, captive portals, 256 concurrent clients per AP and dual Gigabit network ports with PoE/PoE+, GWN7660 is an ideal Wi-Fi access point for medium wireless network deployments with medium-to-high user density.		
<b>Customer Challenges</b>	Arenas and stadiums where there might be sports games, festivals, and concerts with dense crowds, looking to provide coverage and support to large numbers of client devices.	Medium to large offices who rely on Wi-Fi for most communications and need to support hundreds of simultaneous Wi-Fi connections while ensuring maximum quality for each connection.	Businesses who are experiencing lackluster Wi-Fi network quality now that they are relying on it for most communications and each user who need to access Wi-Fi across numerous devices concurrently.
<b>Customer Solutions</b>	Each GWN7660 supports Wi-Fi 6 for faster data speeds and up to 250+ client devices. GWN series APs can be configured to create a mesh network in order to provide better coverage in hard-to-cover areas and create back-up in case an AP goes down.	GWN7660 supports Wi-Fi 6, which was designed specifically to maximize quality in dense Wi-Fi environments. It is ideal for businesses that rely on Wi-Fi for voice, video, data and mobility solutions.	GWN7660 supports the most advanced Wi-Fi standard, Wi-Fi 6, allowing it to be ideal for high-density Wi-Fi networks that require maximum speeds and client support.

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# GWN Series Wi-Fi 6 Access Points

## Product Messaging - GWN7664

<b>Tagline</b>	GWN 4x4:4 Wi-Fi 6 Indoor Access Point		
<b>Subhead</b>	The GWN7664 is a powerful, enterprise-grade 802.11ax Wi-Fi 6 access point, ideal for medium-to-large sized businesses, multiple floor buildings, residential settings and commercial locations.		
<b>Target Audience</b>	Dense indoor Wi-Fi environments such as medium-to-large offices, schools, colleges/universities, hotels, convention centers, stadiums, gymnasiums, auditoriums and more.		
<b>Product Description</b>	The GWN7664 offers dual-band 4x4:4 MU-MIMO with DL/UL OFDMA technology and a sophisticated internal antenna design for stronger anti-interference, more stable connection, maximum network throughput and expanded Wi-Fi coverage range. The GWN7664 is supported by GWN.Cloud and GWN Manager, Grandstream's cloud and on-premise Wi-Fi management platform that makes managing your network or several networks across multiple locations easier than ever before. It also uses a controller-less network management architecture in which the controller is embedded within the product's web user interface for easy administration of locally deployed Wi-Fi Aps. The GWN7664 is the ideal Wi-Fi AP for voice-over-Wi-Fi deployments and offers a seamless connection with Grandstream's Wi-Fi capable IP phones. With support for advanced QoS, low latency real-time applications, mesh networks, captive portals, 512 concurrent clients and dual Gigabit network ports with PoE/PoE+, the GWN7664 is an ideal Wi-Fi access point for business-grade wireless network deployments with medium-to-high user density.		
<b>Customer Challenges</b>	An enterprise or large office complex needs to provide the highest quality Wi-Fi speeds to ensure maximum productivity while supporting over 500 clients per device	Small-to-medium sized offices who rely on Wi-Fi for most communications and need to support hundreds of simultaneous Wi-Fi connections while ensuring maximum quality for each connection.	Colleges, schools, hotels and convention centers that are experiencing lackluster Wi-Fi network quality now that they are relying on it for most communications and each user who need to access Wi-Fi across numerous devices concurrently.
<b>Customer Solutions</b>	Each GWN7664 supports Wi-Fi 6 for faster data speeds and up to 512+ client devices. GWN series APs can be configured to create a mesh network in order to provide better coverage in hard-to-cover areas and create back-up in case an AP goes down.	GWN7664 supports Wi-Fi 6, which was designed specifically to maximize quality in dense Wi-Fi environments. It is ideal for businesses that rely on Wi-Fi for voice, video, data and mobility solutions.	GWN7664 supports the most advanced Wi-Fi standard, Wi-Fi 6, allowing it to be ideal for high-density Wi-Fi networks that require maximum speeds and client support.

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# GWN Series Wi-Fi 6 Access Points

## Product Messaging - GWN7660LR

<b>Tagline</b>	GWN 2x2:2 Wi-Fi 6 Weatherproof Long-Range Access Point		
<b>Subhead</b>	The GWN7660LR is a long-range 802.11ax Wi-Fi 6 access point designed to provide next generation network coverage for indoor and outdoor environments.		
<b>Target Audience</b>	Dense outdoor and indoor environments such as parks, business centers, public areas, colleges/universities, multiple floor offices, warehouses, hotels, resorts, convention centers, hospitals, schools and more.		
<b>Product Description</b>	The GWN7660LR offers IP66 weatherproof certified casing, dual-band 2x2:2 MU-MIMO technology and a sophisticated antenna design for extended coverage range of up to 250 meters. The GWN7660LR is supported by GWN.Cloud and GWN Manager, Grandstream's cloud and on-premise Wi-Fi management platform that makes managing your network or several networks across multiple locations easier than ever before. It also uses a controllerless network management architecture in which the controller is embedded within the product's web user interface for easy administration of locally deployed Wi-Fi APs. The GWN7660LR is the ideal Wi-Fi AP for voice-over-Wi-Fi deployment and offers a seamless connection with Grandstream's Wi-Fi capable voice and video IP phones. With support for advanced QoS, low-latency real-time applications, mesh networks, captive portals and dual Gigabit networks ports with PoE/PoE+; the GWN7660LR is an ideal outdoor Wi-Fi access point for enterprises, multiple floor offices, warehouses, parks, hospitals, schools and more.		
<b>Customer Challenges</b>	Parks, public spaces, stadiums and business centers want to offer Wi-Fi access to visitors and need to support a long-range network with hundreds of clients per device.	Warehouses and factories looking to create a seamless Wi-Fi and communications environment to cover a large space with as little equipment as possible.	Colleges, universities, and enterprises who are looking to provide indoor and outdoor Wi-Fi access to the whole campus and who need to access Wi-Fi across numerous devices concurrently.
<b>Customer Solutions</b>	Each GWN7660LR supports Wi-Fi 6 for faster data speeds, up to 256+ client devices, and 250 meter range. GWN series APs can be configured to create a mesh network in order to provide better coverage in hard-to-cover areas and create back-up in case an AP goes down.	GWN7660LR has up to 250 meter range allowing for more devices to be used on one access point throughout the whole facility and thanks to Wi-Fi 6 OFDMA and improved MU-MIMO, helps manage more simultaneous IoT equipment.	GWN7660LR supports the most advanced Wi-Fi standard, Wi-Fi 6, allowing it to be ideal for high-density Wi-Fi networks that require maximum speeds and client support and come equipped with IP66 weatherproof casing.

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# GWN Series Wi-Fi 6 Access Points

## GWN7660 Datasheets



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**Wi-Fi 6**  
802.11ax

### 802.11ax 2x2:2 Wi-Fi 6 Access Point

#### GWN7660

The GWN7660 is an enterprise-grade 802.11ax Wi-Fi 6 access point that allows businesses to build next-generation Wi-Fi networks for high-density environments. It offers dual-band 2x2:2 MU-MIMO with DL/UL OFDMA technology and a sophisticated antenna design for maximum network throughput and expanded Wi-Fi coverage range. To ensure easy installation and management, the GWN7660 uses a controller-less distributed network management design in which the controller is embedded within the product's Web user interface. The GWN7660 is also supported by GWN.Cloud and GWN Manager, Grandstream's cloud and on-premise Wi-Fi management platform. It is the ideal Wi-Fi AP for voice-over-Wi-Fi deployments and offers a seamless connection with Grandstream's Wi-Fi capable IP phones. With support for advanced QoS, low-latency real-time applications, mesh networks, captive portals, 256 concurrent clients per AP and dual Gigabit network ports with PoE/PoE+, GWN7660 is an ideal Wi-Fi access point for medium wireless network deployments with medium-to-high user density.

 <b>Gigabit</b> 1.77Gbps aggregate wireless throughput and 2x Gigabit Ethernet ports	 <b>2x2 MIMO</b> Dual-band 2x2:2 MU-MIMO with DL/UL OFDMA technology	 <b>175 meters</b> Up to 175-meter coverage range	 <b>256 clients</b> Supports 256 concurrent Wi-Fi client devices
 <b>QoS</b> Advanced QoS to ensure real-time performance of low-latency applications	 <b>Secure</b> Anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate/random default password per device	 <b>PoE</b> Self power adaptation upon auto detection of PoE or PoE+	 <b>Controller</b> Embedded controller can manage up to 50 local GWN series APs; GWN.Cloud offers unlimited AP management; GWN Manager offers premise-based software controller

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<b>Wi-Fi Standards</b>	IEEE 802.11 a/b/g/n/ac/ax
<b>Antennas</b>	2 dual band internal antennas 2.4GHz, gain 3dBi / 5 GHz, gain 4dBi
<b>5G</b>	IEEE 802.11ax: 7.3 Mbps to 1201 Mbps; IEEE 802.11ac: 6.5 Mbps to 867 Mbps; IEEE 802.11n: 6.5Mbps to 300Mbps; IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
<b>Wi-Fi Data Rates</b>	2.4G: IEEE 802.11ax: 7.3 Mbps to 573.5 Mbps; IEEE 802.11n: 6.5Mbps to 300Mbps; IEEE 802.11b: 1, 2, 5.5, 11 Mbps; IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
<b>Frequency Bands</b>	2.4GHz radio: 2400-2483.5MHz 5GHz radio: 5150-5850MHz
<b>Channel Bandwidth</b>	2.4G: 20 and 40 MHz 5G: 20, 40 and 80 MHz
<b>Wi-Fi and System Security</b>	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise (TKIP/AES), WPA3, anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate and random default password per device
<b>MIMO</b>	2x2:2 2.4GHz 2x2:2 5GHz
<b>Coverage Range</b>	Up to 175 meters <i>*coverage range can vary based on environment</i>
<b>Maximum TX Power</b>	5G: 22dBm 2.4G: 24dBm <i>*Maximum power varies by country, frequency band and MCS rate</i>
<b>Receiver Sensitivity</b>	<b>2.4G</b> 802.11b: -96dBm@1Mbps, -88dBm@11Mbps; 802.11g: -93dBm@6Mbps, -75dBm@54Mbps; 802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz: -70dBm @MCS7; 802.11ax 20MHz: -60dBm @MCS11; 802.11ax 40MHz: -58dBm @MCS11; <b>5G</b> 802.11a: -92dBm @6Mbps, -74dBm @54Mbps; 802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz: -70dBm @MCS7; 802.11ax 20MHz: -67dBm@MCS8; 802.11ac 40MHz: -63dBm @MCS9; 802.11ac 80MHz: -59dBm @MCS9; 802.11ax 20MHz: -60dBm @MCS11; 802.11ax 40MHz: -58dBm @MCS11; 802.11ax 80MHz: -56dBm @MCS11
<b>SSIDs</b>	32 SSIDs total, 16 per radio (2.4ghz and 5 ghz)
<b>Concurrent Clients</b>	256
<b>Network Interfaces</b>	2x autosensing 10/100/1000 Base-T Ethernet Ports
<b>Auxiliary Ports</b>	1x Reset Pinhole, 1x Kensington lock
<b>Mounting</b>	Indoor wall mount or ceiling mount, kits included
<b>LEDs</b>	3 tri-color LEDs for device tracking and status indication
<b>Network Protocols</b>	IPv4, IPv6, 802.1Q, 802.1p, 802.1x, 802.11e/WMM
<b>QoS</b>	802.11e/WMM, VLAN, TCS
<b>Network Management</b>	Embedded controller can manage up to 50 local GWN APs GWN.Cloud offers a free cloud management platform for unlimited GWN APs GWN Manager offers premise-based software controller for up to 3,000 GWN APs
<b>Power and Green Energy Efficiency</b>	PoE 802.3af/ 802.3at; Maximum Power Consumption: 9W
<b>Environmental</b>	Operation: 0°C to 45°C Storage: -10°C to 60°C Humidity: 10% to 90% Non-condensing
<b>Physical</b>	Unit Dimension: 180.4mmx180.4mmx40.8mm; Unit Weight: 443g Entire Package Dimension: 228.3x220.7mm; Entire Package Weight: 774g
<b>Package Content</b>	GWN7660 802.11ax Wireless AP, Mounting Kits, Quick Start Guide
<b>Compliance</b>	FCC, CE, RCM, IC

2.2021.04

[www.grandstream.com](http://www.grandstream.com)

## Translations

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# GWN Series Wi-Fi 6 Access Points

## GWN7664 Datasheets



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**WiFi 6**  
CERTIFIED

### 802.11ax 4x4:4 Wi-Fi 6 Access Point

#### GWN7664

The GWN7664 is a powerful, enterprise-grade 802.11ax Wi-Fi 6 access point, ideal for small-to-medium sized businesses, multiple floor buildings, residential settings and commercial locations. It offers dual-band 4x4:4 MUMIMO with DL/UL OFDMA technology and a sophisticated internal antenna design for stronger anti-interference, more stable connection, maximum network throughput and expanded Wi-Fi coverage range. The GWN7664 is supported by GWN, Cloud and GWN Manager, Grandstream's cloud and on-premise Wi-Fi management platform that makes managing your network or several networks across multiple locations easier than ever before. It also uses a controller-less network management architecture in which the controller is embedded within the product's web user interface for easy administration of locally deployed Wi-Fi APs. The GWN7664 is the ideal Wi-Fi AP for voice-over-Wi-Fi deployments and offers a seamless connection with Grandstream's Wi-Fi capable IP phones. With support for advanced QoS, low-latency real-time applications, mesh networks, captive portals, 512 concurrent clients and dual gigabit network ports with PoE/PoE+, the GWN7664 is an ideal Wi-Fi access point for business-grade wireless network deployments with medium-to-high user density.

 <b>Gigabit</b>	 <b>4x4 MIMO</b>	 <b>175 meters</b>	
3.55Gbps aggregate wireless throughput, 3.5Gbps aggregate wired throughput	Dual-band 4x4:4 MU-MIMO with DL/UL OFDMA technology	Up to 175-meter coverage range	Support 512 concurrent Wi-Fi client devices
 <b>QoS</b>		 <b>PoE</b>	
Advanced QoS to ensure real-time performance of low-latency applications	Anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate/random default password per device	Self power adaptation upon auto detection of PoE or PoE+	Embedded controller manages up to 50 local GWN APs; GWN Cloud offers unlimited AP management, & GWN Manager offers on-premise software AP management

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<b>Wi-Fi Standards</b>	IEEE 802.11 a/b/g/n/ac/ax
<b>Antennas</b>	8 individual internal antennas, 4 per band 2.4GHz, gain 3dBi 5 GHz, gain 4dBi
<b>Wi-Fi Data Rates</b>	<b>5G</b> IEEE 802.11ac: 8 Mbps to 2402 Mbps IEEE 802.11ac: 6.5 Mbps to 1733 Mbps IEEE 802.11n: 6.5Mbps to 600Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps <b>2.4G</b> IEEE 802.11a: 8 Mbps to 1147 Mbps IEEE 802.11n: 6.5Mbps to 600Mbps IEEE 802.11b: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps <small>*Actual throughput may vary depending on many factors including environmental conditions, distance between devices, radio interference in the operating environment and mix of devices in the network</small>
<b>Frequency Bands</b>	2.4GHz Radio: 2412 - 2484 MHz 5GHz Radio: 5180 - 5825 MHz <small>*Not all frequency bands can be used in all regions</small>
<b>Channel Bandwidth</b>	2.4G: 20 and 40 MHz (x4) 5G: 20, 40 and 80 MHz (x4) or 160MHz (x2)
<b>Wi-Fi and System Security</b>	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise (TKIP/AES); WPA3, anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate and random default password per device
<b>MIMO</b>	4x4:4 2.4GHz 4x4:4 5GHz
<b>Coverage Range</b>	Up to 175 meters <small>*Coverage range can vary based on environment</small>
<b>Maximum TX Power</b>	5G: 25dBm 2.4G: 25dBm <small>*Maximum power varies by country, frequency band and MCS rate</small>
<b>Receiver Sensitivity</b>	<b>2.4G</b> 802.11b: -99dBm@1Mbps, -91dBm@11Mbps; 802.11g: -94dBm @6Mbps, -78dBm@54Mbps; 802.11n 20MHz: -75dBm @MCS7; 802.11n 40MHz: -71dBm @MCS7; 802.11ax 20MHz: -64dBm @ MCS11; 802.11ax 40MHz: -63dBm @MCS11 <b>5G</b> 802.11a: -95dBm @6Mbps, -77dBm @54Mbps; 802.11n 20MHz: -74dBm @MCS7; 802.11n 40MHz: -71dBm @MCS7 802.11ac 20MHz: -70dBm@MCS8; 802.11ac HT40: -66dBm @MCS9; 802.11ac 80MHz: -62dBm @MCS9; 802.11ax 20MHz: -64dBm @ MCS11; 802.11ax 40MHz: -62dBm @MCS11; 802.11ax 80MHz: -59dBm @MCS11
<b>SSIDs</b>	32 SSIDs total, 16 per radio (2.4GHz & 5GHz)
<b>Concurrent Clients</b>	512
<b>Network Interfaces</b>	1x 1G Port and 1x 2.5G Port, support 3.5Gbps aggregate wire throughput
<b>Auxiliary Ports</b>	1x Reset Pinhole, 1x Kensington lock
<b>Mounting</b>	Indoor wall mount or ceiling mount, kits included
<b>LEDs</b>	1 tri-color LEDs for device tracking and status indication
<b>Network Protocols</b>	IPv4, IPv6, 802.1Q, 802.1p, 802.1x, 802.11e/WMM
<b>QoS</b>	802.11e/WMM, VLAN, TOS
<b>Network Management</b>	Embedded controller can manage up to 50 local GWN APs GWN Cloud offers a free cloud management platform for unlimited GWN APs GWN Manager offers premise-based software controller for up to 3,000 GWN APs
<b>Power and Green Energy Efficiency</b>	PoE 802.3af/ 802.3at Maximum Power Consumption: 17W
<b>Environmental</b>	Operation: 0°C to 50°C Storage: -10°C to 60°C Humidity: 10% to 90% Non-condensing
<b>Physical</b>	Unit Dimension: 205.3mm(L)x205.3mm(W)x405.9mm(H); Unit Weight: 0.714kg Entire Package Dimension: 238x278x86mm; Entire Package Weight: 1.06kg
<b>Package Content</b>	GWN7664 802.11ax Wireless AP, Mounting Kits, Quick Start Guide
<b>Compliance</b>	FCC, CE, RoHS, IC

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## Translations

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# GWN Series Wi-Fi 6 Access Points

## GWN7660LR Datasheets







### Outdoor Long-Range Wi-Fi 6 Access Point GWN7660LR

The GWN7660LR is a long-range 802.11ax Wi-Fi 6 access point designed to provide next generation network coverage for indoor and outdoor environments. It offers IP66 weatherproof certified casing, dual-band 2x2:2 MU-MIMO technology and a sophisticated antenna design for extended coverage range of up to 250 meters. The GWN7660LR is supported by GWN.Cloud and GWN Manager, Grandstream's cloud and on-premise Wi-Fi management platform that and makes managing your network or several networks across multiple locations easier than ever before. It also uses a controller-less network management architecture in which the controller is embedded within the product's web user interface for easy administration of locally deployed Wi-Fi APs. The GWN7660LR is the ideal Wi-Fi AP for voice-over-Wi-Fi deployment and offers a seamless connection with Grandstream's Wi-Fi capable voice and video IP phones. With support for advanced QoS, low-latency real-time applications, mesh networks, captive portals and dual Gigabit networks ports with PoE/PoE+; the GWN7660LR is an ideal outdoor Wi-Fi access point for enterprises, multiple floor offices, warehouses, parks, hospitals, schools and more.



**1.77Gbps aggregate wireless throughput and 2x Gigabit Ethernet ports**



**Dual-band 2x2:2 MU-MIMO with DUAL OFDMA technology**



**Self power adaptation upon auto detection of PoE or PoE+**



**Up to 250-meter coverage range**



**Advanced QoS to ensure real-time performance of low-latency applications**



**Anti-hacking secure boot and critical data/control lockdown**



**Flexibility of 2 detachable/changeable antennas for different application scenarios.**



**Embedded controller manages up to 50 local GWN APs; GWN.Cloud offers unlimited AP management, & GWN Manager offers on-premise software AP management**

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<b>Wi-Fi Standards</b>	IEEE 802.11 a/b/g/n/ac/ax
<b>Antennas</b>	2 dual band external antennas 2.4GHz, gain 3.5dBi 5 GHz, gain 3.5dBi
<b>5G:</b>	IEEE 802.11ax: 7.3 Mbps to 1201 Mbps IEEE 802.11ac: 6.5 Mbps to 867 Mbps IEEE 802.11n: 6.5 Mbps to 300 Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
<b>Wi-Fi Data Rates</b>	<b>2.4G:</b> IEEE 802.11ax: 7.3 Mbps to 573.5 Mbps IEEE 802.11n: 6.5 Mbps to 300 Mbps IEEE 802.11a: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
	<i>*Actual throughput may vary depending on many factors including environmental conditions, distance between devices, radio interference in the operating environment and mix of devices in the network</i>
<b>Frequency Bands</b>	2.4GHz radio: 2412 - 2484 MHz 5GHz radio: 5180 - 5825 MHz <i>*Not all frequency bands can be used in all regions.</i>
<b>Channel Bandwidth</b>	2.4G: 20 and 40 MHz 5G: 20, 40 and 80 MHz
<b>System Security</b>	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise (TKIP/AES); WPA3, anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate and random default password per device
<b>MU-MIMO</b>	2x2:2 2.4GHz, 2x2:2 5GHz
<b>Coverage Range</b>	Up to 250 meters <i>*Coverage range can vary based on environment</i>
<b>Maximum TX Power</b>	5G: 26dBm 2.4G: 30dBm <i>*Maximum power varies by country, frequency band, and MCS rate</i>
<b>Receiver Sensitivity</b>	<b>5G</b> 802.11a: -95dBm @6Mbps, -77dBm @54Mbps; 802.11ac: 20MHz: -71dBm @MCS8; 802.11ac: HT40: 67dBm @MCS9; 802.11ac: 80MHz: -64dBm @MCS9; 802.11ax 20MHz: -63dBm @ MCS11; 802.11ax 40MHz: -62dBm @MCS11; 802.11ax 80MHz: -58dBm @MCS11
<b>SSIDs</b>	32 SSIDs total, 16 per radio (2.4GHz & 5GHz)
<b>Concurrent Clients</b>	256+
<b>Network Interfaces</b>	2x autosensing 10/100/1000 Base-T Ethernet Ports
<b>Auxiliary Ports</b>	1x Reset Pinhole
<b>Mounting</b>	Outdoor wall or pole mount, kits included
<b>LEDs</b>	1x tri-color LEDs for device tracking and status indication
<b>Network Protocols</b>	IPv4, IPv6, 802.1Q, 802.1x, 802.1x, 802.11e/WMM
<b>QoS</b>	802.11e/WMM, VLAN, TOS
<b>Network Management</b>	Embedded controller can manage up to 50 local GWN APs GWN.Cloud offers a free cloud management platform for unlimited GWN APs GWN Manager offers premise-based software controller for up to 3,000 GWN APs
<b>Power and Green Energy Efficiency</b>	PoE 802.3af/ 802.3at; Maximum Power Consumption: 12.9W
<b>Environmental</b>	Operation: 30°C to 60°C Storage: -30°C to 70°C Humidity: 5% to 95% Non-condensing
<b>Physical</b>	Unit Dimension: 358.3mm(L)x115mm(W)x45.3mm(H); Unit Weight: 695g Entire Package Dimension: 273x185.5x89mm; Entire Package Weight: 995g
<b>Package Content</b>	GWN7660LR 802.11ax Wireless AP, Mounting Kits, Quick Installation Guide
<b>Weatherproof Grade</b>	IP66-level weatherproof capability when installed vertically
<b>Compliance</b>	FCC, CE, RCM, IC

11.2021.01

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## Translations

[English](#)

[French](#)

[German](#)

[Italian](#)

[Polish](#)

[Portuguese](#)

[Russian](#)

[Spanish](#)

# GWN Series Wi-Fi 6 Access Points

## Product Launch Email Templates

### GWN7660

- [Email \(Packaged InDesign File\)](#)
- [Email \(PDF\)](#)
- [Email Text \(Word\)](#)
- [Email Banner \(PSD\)](#)
- [Email Banner \(PNG\)](#)

### GWN7664

- [Email \(Packaged InDesign File\)](#)
- [Email \(PDF\)](#)
- [Email Text \(Word\)](#)
- [Email Banner \(PSD\)](#)
- [Email Banner \(PNG\)](#)

### GWN7660LR

- [Email \(Packaged InDesign File\)](#)
- [Email \(PDF\)](#)
- [Email Text \(Word\)](#)
- [Email Banner \(PSD\)](#)
- [Email Banner \(PNG\)](#)

Now Available  
**GWN 2x2:2 Wi-Fi 6 Indoor Access Point**  
GWN7660



**Grandstream Adds First WiFi 6 Access Point to GWN Series**

Today, Grandstream has announced the release of a new Wi-Fi 6 Access Point to the GWN Series. The GWN7660 offers dual-band 2x2:2 MU-MIMO with DL/UL OFDMA technology and a sophisticated antenna design for maximum network throughput and expanded Wi-Fi coverage range. The GWN7660 is also supported by GWN.Cloud and GWN Manager, Grandstream's cloud and on-premise Wi-Fi management platform. It is the ideal Wi-Fi AP for voice-over-Wi-Fi deployments and offers a seamless connection with Grandstream's Wi-Fi capable IP phones.

**WiFi 6 Certified**

The GWN7660 is fully certified by the Wi-Fi Alliance. The Wi-Fi Alliance drives global Wi-Fi adoption and evolution through thought leadership, spectrum advocacy and industry-wide collaboration. [\(Wi-Fi CERTIFIED\)](#)

**2x2:2 MIMO**

Dual-band 2x2:2 MUMIMO with DL/UL OFDMA technology, and 1.77Gbps throughput

**Coverage**

Up to 175-meter coverage range and Supports 256 concurrent Wi-Fi client devices

**Deployment Scenarios**

**Medium-Large Offices**

Ideal for medium to large offices who rely on Wi-Fi for most communications and need to support hundreds of simultaneous Wi-Fi connections while ensuring maximum quality for each connection. GWN7660 supports Wi-Fi 6, which was designed specifically to maximize quality in dense Wi-Fi environments. It is ideal for businesses that rely on Wi-Fi for voice, video, data and mobility solutions.

**Hospitality**

Hotels and convention centers need to support hundreds of users throughout large spaces while offering fast speeds - which is what the GWN7660 was made to do. It utilizes the next-gen Wi-Fi 6 standard, supports mesh networks, and more.

**Stadiums & Arenas**

Arenas and stadiums where there might be sports games, festivals, and concerts with dense crowds, looking to provide coverage and support to large numbers of client devices. Each GWN7660 supports Wi-Fi 6 for faster data speeds and up to 250+ client devices. GWN series APs can be configured to create a mesh network in order to provide better coverage in hard-to-cover areas and create back-up in case an AP goes down.

YouTube, Twitter, LinkedIn, Facebook

# GWN Series Wi-Fi 6 Access Points

## Press Releases

Use this press release as a tool to announce new products from Grandstream. With clear and concise language, it can be used as a reference point to create a dedicated blog post, social announcement, or used in an email campaign. Include links to your product pages so that customers can be easily directed to your website.

### GWN7660

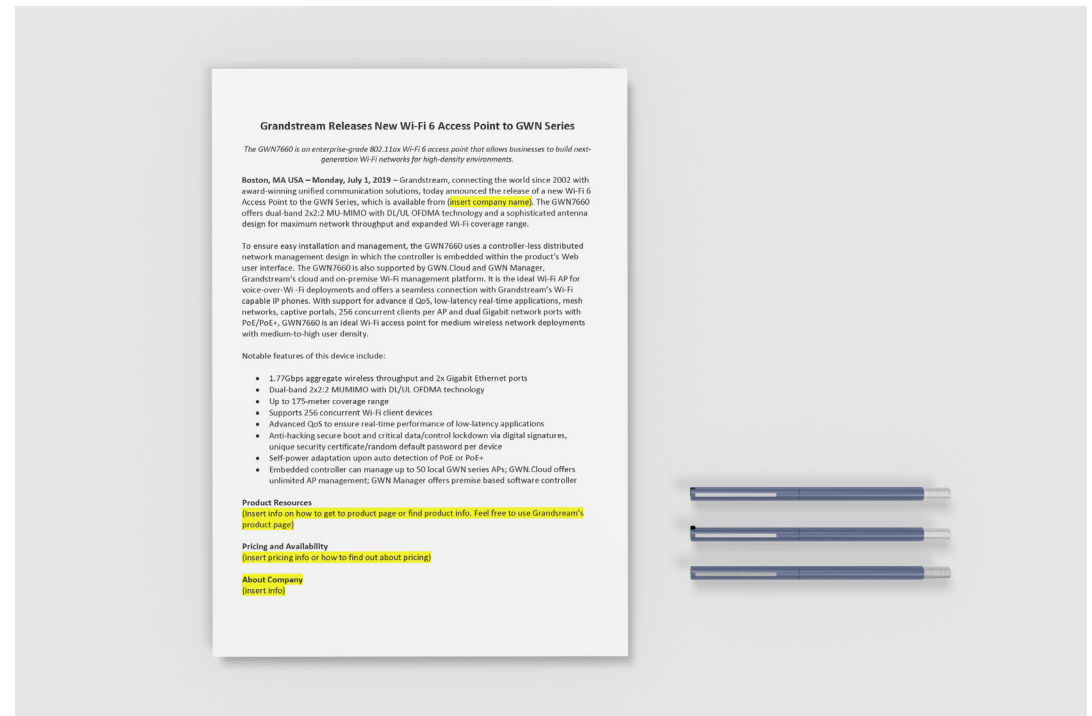
[Grandstream Releases First Wi-Fi 6 Access Point to GWN Series](#)

### GWN7664

[Grandstream Releases New Wi-Fi 6 Access Point to GWN Series](#)

### GWN7660LR

[Grandstream Releases New Long-Range Weatherproof Wi-Fi 6 Access Point to GWN Series](#)



# GWN Series Wi-Fi 6 Access Points

## Social Graphics

Use the editable template to customize your own social image by adding your logo, or create your own using the elements provided below. Photoshop files as well as PNGs are provided for each product. For paid social promotion it is recommended to use social images with limited to no text.



Social Image w/ Text

[GWN7660 \(PSD\)](#)  
[GWN7660 \(PNG\)](#)

[GWN7664 \(PSD\)](#)  
[GWN7664 \(PNG\)](#)

[GWN7660LR \(PSD\)](#)  
[GWN7660LR \(PNG\)](#)



Social Image w/o Text

[GWN7660 \(PSD\)](#)  
[GWN7660 \(PNG\)](#)

[GWN7664 \(PSD\)](#)  
[GWN7664 \(PNG\)](#)

[GWN7660LR \(PSD\)](#)  
[GWN7660LR \(PNG\)](#)



Suggested Social Post Copy

[GWN7660 \(Word\)](#)

[GWN7664 \(Word\)](#)

[GWN7660LR \(Word\)](#)

# GWN Series Wi-Fi 6 Access Points

## Social Graphics continued

Email signature banners are images placed at the end of your email used to promote your company, products, services, and more. Use the banner provided or the email signature template to add your company logo and add a link to increase website traffic for newly available products.

The mobile and desktop compatible Facebook cover photo can be customized and added to your company's Facebook homepage to promote new products.

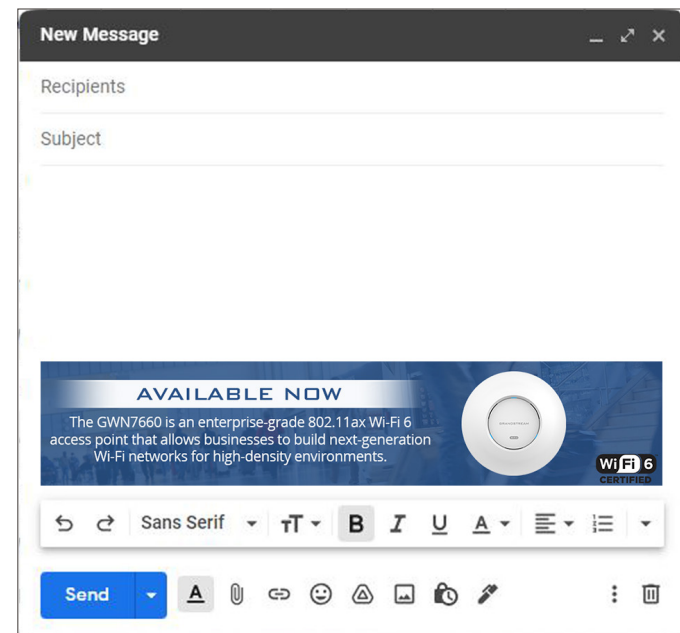


Facebook Cover Photo

[GWN7660 \(PSD\)](#)  
[GWN7660 \(PNG\)](#)

[GWN7664 \(PSD\)](#)  
[GWN7664 \(PNG\)](#)

[GWN7660LR \(PSD\)](#)  
[GWN7660LR \(PNG\)](#)



Email Signatures

[GWN7660 \(PSD\)](#)  
[GWN7660 \(PNG\)](#)

[GWN7664 \(PSD\)](#)  
[GWN7664 \(PNG\)](#)

[GWN7660LR \(PSD\)](#)  
[GWN7660LR \(PNG\)](#)



# GWN Series Wi-Fi 6 Access Points

## Digital Ad Banners

Banner advertising is synonymous with display ads. They're placed in high-traffic locations on webpages, creating brand awareness and generating click-throughs, purchases, and leads. These high-visibility locations include the front, bottom, or the side of a webpage; places where the eyes of browsers usually wander. These banners can also be placed on your own website pages in places outside your product page, such as blog pages, events, drop down menu's and more.

See [HERE](#) for recommended sizing.



### 300x250 Ad Banners

[GWN7660 \(PSD\)](#)  
[GWN7660 \(PNG\)](#)

[GWN7664 \(PSD\)](#)  
[GWN7664 \(PNG\)](#)

[GWN7660LR \(PSD\)](#)  
[GWN7660LR \(PNG\)](#)

# GWN Series Wi-Fi 6 Access Points

## Marketing Assets - GWN7660

### Product Images

[GWN7660 Front](#)

[GWN7660 Back](#)

[GWN7660 Right](#)

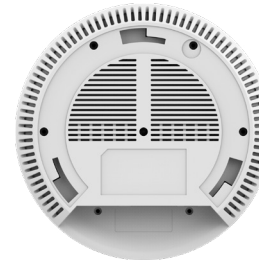
[GWN7660 Left](#)

[GWN7660 Top](#)

[GWN7660 Bottom](#)



GWN7660 Front



GWN7660 Back



GWN7660 Right



GWN7660 Left



GWN7660 Top



GWN7660 Bottom

### Feature Icons

[Gigabit](#)

[2x2 MIMO](#)

[175 Meters](#)

[Devices](#)

[QoS](#)

[Security](#)

[PoE](#)

[Embedded Controller](#)



**Gigabit**

Gigabit



2x2 MIMO



175 Meters



Devices



QoS



Security



**PoE**

PoE



Embedded Controller

# GWN Series Wi-Fi 6 Access Points

## Marketing Assets - GWN7664

### Product Images

[GWN7664 Front](#)

[GWN7664 Right](#)

[GWN7664 Side](#)

[GWN7664 Bottom](#)



GWN7664 Front



GWN7664 side



GWN7664 Right



GWN7664 Bottom

### Feature Icons

[Gigabit](#)

[4x4 MIMO](#)

[175 Meters](#)

[Devices](#)

[QoS](#)

[Security](#)

[PoE](#)

[Embedded Controller](#)



**Gigabit**

Gigabit



4x4 MIMO



175 Meters



Devices



QoS



Security



PoE



Embedded Controller

# GWN Series Wi-Fi 6 Access Points

## Marketing Assets - GWN7660LR

### Product Images

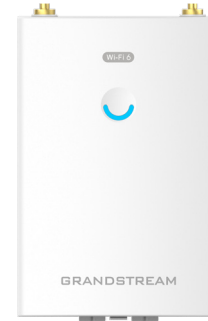
GWN7660LR Front

GWN7660LR w/o Antennas

GWN7660LR Right



GWN7660LR Front



GWN7660LR w/o Antennas



GWN7660LR Right

### Feature Icons

Gigabit

2x2 MIMO

250 Meters

Devices

QoS

Security

PoE

Embedded Controller

Antenna



Gigabit



QoS



PoE



2x2 MIMO



Security



PoE



250 Meters



Devices



Embedded Controller