



Partner Marketing Kit



GWN SERIES WI-FI 6 ACCESS POINTS

GWN Series Wi-Fi 6 Access Points

Table of Contents

GWN Series Wi-Fi 6 Overview.....	3-4
Sales Kit.....	5
Presentation.....	6
Comparison Charts.....	7
Product Messaging.....	8
GWN7660 Datasheets.....	9
GWN7660E Datasheets.....	10
GWN7661 Datasheets.....	11
GWN7662 Datasheets.....	12
GWN7664 Datasheets.....	13
GWN7664E Datasheets.....	14
GWN7665 Datsheets	15
GWN7660LR Datasheets	16
GWN7660ELR Datasheets	17
GWN7664LR Datasheets	18
GWN7664ELR Datasheets	19
Social Graphics	20
Marketing Assets.....	21-29

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.



GRANDSTREAM
CONNECTING THE WORLD

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](#)

[Spanish](#)

Grandstream Wi-Fi 6 APs GWN Series

**Wi-Fi 6
CERTIFIED**



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.
- Wi-Fi 6E models: GWN7665

GWN Series & Wi-Fi 6

	GWN7660	GWN7660E	GWN7661	GWN7662	GWN7660LR	GWN7664	GWN7664E	GWN7664LR	GWN7665
Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/ax (Wi-Fi 6)								
MU-MIMO	2x2:2	2x2:2 / 3x3:2	2x2:2	4x4:4	2x2:2	4x4:4		Tri-band 2x2:2	
Coverage Range	Up to 175 meters	Up to 175 meters	Up to 100 meters	Up to 175 meters	Up to 250 meters, Weatherproof	Up to 175 meters	Up to 175 meters	Up to 250 meters, Weatherproof	Up to 175 Meters
Concurrent Clients	256	256	500	500	500	750	512	750	384
Network Interfaces	2x Gigabit ports	1x Gigabit Port	1x 1G uplink port, 2x 1G PSE ports, 1x 1G port	1x 1G uplink port and 1x 2.5G port	2x Gigabit ports	1x 1G port and 1x 2.5G port	2x 2.5 Gigabit Ports	1x 1G port and 1x 2.5G port	1x 1G port and 1x 2.5G port
Wi-Fi Throughput	1.77 Gbps	3 Gbps	1.77 Gbps	5.38 Gbps	1.77 Gbps	3.5 Gbps	6 Gbps	3.5 Gbps	5.4 Gbps

Wi-Fi 6 CERTIFIED




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



Translations

[English \(PowerPoint\)](#)

[English \(PDF\)](#)

[Spanish \(PowerPoint\)](#)

[Spanish \(PDF\)](#)

GWN Series Wi-Fi 6 Access Points

Comparison Charts

Comparison Charts are short one page resources that clearly highlight the features of Grandstream's products against competitors products or Grandstream's products within the same product line. They can be categorized into two main categories:

- 1. Master Comparison Charts** - Comparing Grandstream's products against each other from the same product line.
- 2. Grandstream Products vs Competition** - Comparing the features of Grandstream's products against similar competitor's products

Comparison Charts

[GWN Wi-Fi 6 Master Comparison Chart](#)

[GWN7661 vs Competition Comparison Chart](#)

[GWN7662 vs Competition Comparison Chart](#)

[GWN7664 vs Competition Comparison Chart](#)

[GWN7665 vs Competition Comparison Chart](#)

GWN7661 vs. Industry Competition			
	3 Free Wi-Fi Management Options	List Price	
	The GWN7661 has 3 free management options: cloud based (GWNCloud), software based (GWNManager) and embedded dual in the web UI. This makes for easy management that is accessible from anywhere at anytime. TP-Link EAP750 offers 3 free management options as well, whereas the Ubiquiti UniFi offers only one management option with the UniFi Network Application.	The GWN7661 has a list price of \$99 which is significantly cheaper than the UniFi UniFi which has a list price of \$250 and competitor products have varying number of features. The TP-Link EAP750 has a slightly cheaper list price of \$85. However the GWN7661 has better features in terms of supported 802.11n concurrent clients, compliance etc.	
	GWN7661	TP-Link EAP750-WH	UniFi U6 Pro
Wi-Fi 6	Dual-Band Wi-Fi 6	Dual-Band Wi-Fi 6	Wi-Fi 6E Wi-Fi 6E
Supported Clients	500	-	300
Network Interfaces	1x 10/100/1000 uplink Ethernet port with PoE/PoE+ 2x 10/100/1000 Ethernet port with PoE	Uplink: 1x 10/100/1000 Mbps Ethernet Port Downlink: 3x 10/100/1000 Mbps Ethernet Port (One port supports PoE out)	1x GbE RJ45 4x GbE RJ45
2.4GHz Throughput	573.5 Mbps	573.5 Mbps	573.5
5GHz Throughput	1.3Gbps	1.3Gbps	4.8
Wireless Throughput	1.77Gbps	1.77Gbps	5.37
Antennas	3 single band internal antennas 2.4GHz x 2 gain 3.3dBi 5GHz x 2 gain 3.7dBi gain 5.5dBi	2 Dual-Band Antennas 2.4GHz 2x 3 dBi 5GHz 2x 4 dBi	Dual-Band 2.4GHz 5GHz
Wi-Fi MIMO	2x2	2x2	2x2 on the 2.4GHz band
Wireless Security	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise (802.11E), WPA3, and 802.11n security and critical data encryption lockdown via digital signatures, unique security certificate and random offset password per device	Captive Portal Authentication, Access Control, Wireless MAC Address Filtering, Wireless Isolation Between Clients, VLAN, Rogue AP Detection, 802.11n Support, WPA Personal/Enterprise, WPA3 Personal/Enterprise	WPA-PSK, WPA Enterprise
QoS	Yes	Yes	-
SD-WAN	32 total, 16 per radio	16 total, 8 per radio	16 total
Management	3 free options: cloud-based (GWNCloud), software-based (GWNManager) and embedded dual in the web UI	3 Free options: Omada Hardware Controller, Omada Software Controller and Omada cloud-based Controller	Managed with UniFi
Compliance	FCC, CE, RoHS, IC, UKCA	FCC, CE, RoHS	FCC
List Price	\$99	\$90	\$250

GWN7662 vs. Industry Competition			
	3 Free Wi-Fi Management Options	List Price	Supported Clients
	The GWN7662 offers 3 free management options: cloud based (GWNCloud), software based (GWNManager) and embedded dual in the web UI. This makes for easy management that is accessible from anywhere at anytime. TP-Link EAP750 offers 3 free management options as well, whereas the UniFi UniFi offers only one management option with the UniFi Network Application.	The GWN7662 has a list price of \$139 which is cheaper than the UniFi UniFi which has a list price of \$250 and the TP-Link EAP750 that has a list price of \$85 even though the features of all 3 products are very similar. This makes that GWN7662 offers the most value for money compared to its competitors.	The GWN7662 supports 256 clients thereby providing more bandwidth and Wi-Fi speed for clients compared to the TP-Link EAP750 that supports only 200 clients. The UniFi UniFi Pro supports 300 clients which is slightly higher than the GWN7662.
	GWN7662	UniFi U6 Pro	TP-Link EAP750
Wi-Fi 6	Dual-Band Wi-Fi 6	Dual-Band Wi-Fi 6	Dual-Band Wi-Fi 6
Supported Clients	256	200	200
Network Interfaces	1x auto-sensing 10/100/1000 Base-T Ethernet Ports 1x auto-sensing 10/100/1000 Base-T Ethernet Port	1x GbE RJ45 port	1x 2.5 Gigabit Ethernet (RJ-45) Port (supports IEEE802.3ae PoE)
2.4GHz Throughput	573.5 Mbps	573.5 Mbps	573.5 Mbps
5GHz Throughput	4.8Gbps	4.8Gbps	4.8Gbps
Wireless Throughput	5.38Gbps	5.38Gbps	5.38Gbps
Max TX Power	2.4G: 23dBm 5G: 23dBm	2.4G: 23dBm 5G: 23dBm	2.4G: 23dBm 5G: 23dBm
Antennas	6 single frequency internal antennas 2.4GHz x 3 dBi 5GHz x 3 dBi	4 antennas 2.4GHz 4dBi 5GHz 4dBi	Internal Antennas 2.4 GHz 2x 4 dBi 5 GHz 4x 4 dBi
Wi-Fi MIMO	2x2 2.4GHz (2x2, MU-MIMO) 4x4 5GHz (2x2, MU-MIMO)	2x2 2.4GHz (2x2, MU-MIMO) 4x4 5GHz (2x2, MU-MIMO)	-
Wireless Security	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise (802.11E), WPA3, and 802.11n security and critical data encryption lockdown via digital signatures, unique security certificate and random offset password per device	WPA-PSK, WPA Enterprise (WPA/WPA2/PSK)	WPA, WPA2, WPA3, Captive Portal Authentication, Access Control, Wireless MAC Address Filtering, Wireless Isolation between clients, SSID to VLAN mapping, Rogue AP detection, 802.11n Support
QoS	Yes	Yes	Yes
SD-WAN	32 total, 16 per radio	16 total, 8 per radio	16 total, 8 per radio
Management	3 free options: cloud-based (GWNCloud), software-based (GWNManager) and embedded dual in the web UI	Managed with UniFi network application	3 free options: Omada Hardware Controller, Omada Software Controller and Omada cloud-based Controller
Compliance	FCC, CE, RoHS, IC, UKCA	FCC, CE, IC, MIC	FCC, CE, RoHS
List Price	\$139	\$139	\$150

GWN Series Wi-Fi 6 Access Points

Product Messaging

Tagline	GWN Wi-Fi 6 Access Points		
Subhead	Grandstream GWN Series Wi-Fi 6 Access Points are ideal for the modern generation of dense network environments where many users and many devices require reliable, high-speed Wi-Fi connections.		
Target Audience	Dense Wi-Fi environments that require maximum networks speeds, capacity, and security, including enterprises, medium-to-large offices, schools, colleges/universities, hotels, convention centers, stadiums, warehouses, parks, campuses, and more.		
Product Description	Grandstream's Wi-Fi 6 Access Points provide high performance Wi-Fi networking with industry-leading capacity, speeds, and security. The GWN Series is supported by supported by GWN.Cloud (now merged with GDMS) 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. Grandstream APs also use 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 GWN Series provides indoor Wi-Fi 6 access points as well as long-range, weatherproof models. Grandstream's Wi-Fi 6 Access Points are ideal for the modern generation of dense network environments where many users and many devices require reliable, high-speed Wi-Fi connections, while providing a scalable solution that can grow as needed. They provide enterprise-grade security protection, network speeds, and capacity, while including powerful features including mesh networking, captive portals, advanced QoS, and more.		
Customer Challenges	An enterprise or large office complex needs to provide the fastest-possible Wi-Fi speeds and network security to ensure maximum productivity while supporting maximum concurrent clients and speeds.	Small-to-medium sized offices who rely on Wi-Fi and need to provide the fastest-possible speeds to their team the relies on it for video meetings, large file transfers, streaming media access, and more.	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 need to provide guests with fast and reliable network access.
Customer Solutions	Grandstream's Wi-Fi 6 Access Points are ideal for the modern generation of dense network environments where many users and many devices require reliable, high-speed Wi-Fi connections, while providing a scalable solution that can grow as needed. They provide enterprise-grade security protection, network speeds, and capacity, while providing powerful features including mesh networking, captive portals, advanced QoS, and more.		

GWN Series Wi-Fi 6 Access Points

GWN7660 Datasheets



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, 500+ 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.



1.77Gbps aggregate wireless throughput and 2x Gigabit Ethernet ports



Dual-band 2x2:2 MU-MIMO with DL/UL OFDMA technology



Up to 175-meter coverage range



Supports 500+ concurrent Wi-Fi client devices



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 can manage up to 50 local GWN series APs; GWN.Cloud offers unlimited AP management; GWN Manager offers premise-based software controller

Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/ax
Antennas	2 dual band internal antennas 2.4GHz: 2x2:2 MIMO, 5GHz: 2x2:2 MIMO
Wi-Fi Data Rates	5G: 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 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
Frequency Bands	2.4GHz radio: 2400-2483.5MHz 5GHz radio: 5150-5850MHz
Channel Bandwidth	20, 40 and 80 MHz 5G: 20, 40 and 80 MHz
Wi-Fi and System Security	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise (802.1X/EAP), WPA3, anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate and random default password per device
MIMO	2x2:2 2.4GHz 2x2:2 5GHz
Coverage Range	Up to 175 meters *coverage range can vary based on environment
Maximum TX Power	5G: 23dBm 2.4G: 30dBm *Maximum power varies by country, frequency band and MCS rate
Receiver Sensitivity	2.4G 802.11n: -90dBm @1Mbps, -90dBm @11Mbps; 802.11g: -90dBm @1Mbps, -79dBm @54Mbps; 802.11n 20MHz: -79dBm @MCS7; 802.11n 40MHz: -79dBm @MCS7; 802.11ac 20MHz: -90dBm @MCS11; 802.11ac 40MHz: -90dBm @MCS11; 802.11ac 80MHz: -90dBm @MCS11; 5G 802.11n: -90dBm @1Mbps, -79dBm @54Mbps; 802.11n 20MHz: -79dBm @MCS7; 802.11n 40MHz: -79dBm @MCS7; 802.11ac 20MHz: -90dBm @MCS11; 802.11ac 40MHz: -90dBm @MCS11; 802.11ac 80MHz: -90dBm @MCS11; 802.11ac 160MHz: -90dBm @MCS11
Concurrent Clients	256 12 SSIDs total, 16 per radio (2.4GHz and 5GHz)
Network Interfaces	2x auto-sensing 10/100/1000 Base-T Ethernet Ports
Auxiliary Ports	1x Reset Pinhole, 1x Kensington lock
Mounting	Indoor wall mount or ceiling mount, kits included
LEDs	5 tri-color LEDs for device tracking and status indication
Network Protocols	IPv4, IPv6, 802.1Q, 802.1p, 802.1x, 802.11e/WMM
QoS	802.11e/WMM, VLAN, TOS
Network Management	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
Power and Green Energy Efficiency	PoE 802.3at/ 802.3ac Maximum Power Consumption: 9W Operation: 0°C to 40°C
Environmental	Storage: -10°C to 60°C Humidity: 10% to 90% Non-condensing
Physical	Unit Dimensions: 195.4mmx180.4mmx40.2mm Unit Weight: 443g Entire Package Dimensions: 228.0x228.0x70mm Entire Package Weight: 774g
Package Content	GWN7660 802.11ax Wireless AP, Mounting Kits, Quick Start Guide
Compliance	FCC, CE, RoHS, IC

www.grandstream.com

www.grandstream.com

23021.04

Translations

[English](#)

[French](#)

[German](#)

[Italian](#)

[Polish](#)

[Portuguese](#)

[Russian](#)

[Spanish](#)

GWN Series Wi-Fi 6 Access Points

GWN7660E Datasheets



AX3000 Wi-Fi 6 Access Point

GWN7660E

The GWN7660E is an enterprise-grade Wi-Fi 6 access point that allows businesses to build next-generation Wi-Fi networks for high-density environments. It offers 2x2:2 MU-MIMO technology on the 2.4G band and 3x3:2 MU-MIMO on the 5G band as well as a sophisticated antenna design and uses XTRA Range technology with beamforming and OFDMA technology for maximum network throughput and expanded Wi-Fi coverage range. To ensure easy installation and management, the GWN7660E uses a controller-less distributed network management design in which the controller is embedded within the product's Web user interface. The GWN7660E 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 Gigabit network ports with PoE/PoE+, GWN7660E is an ideal Wi-Fi access point for medium wireless network deployments with medium-to-high user density.



3Gbps aggregate wireless throughput and 1Gigabit wireline port



Dual-band 2.4G 2x2:2 and 5G 3x3:2 MU-MIMO with OFDMA and XTRA Range technology



Up to 175-meter coverage range



Supports 256 concurrent Wi-Fi client devices



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 can manage up to 50 local GWN series APs; GWN.Cloud offers unlimited AP management; GWN Manager offers premise-based software controller

www.grandstream.com

Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/ax
Antennas	5 individual internal antennas 2.4GHz x 2, gain 4.0dBi 5 GHz x 3, gain 5.0dBi
Wi-Fi Data Rates	5G: IEEE 802.11ac: 7.3 Mbps to 2402 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 2.4G: IEEE 802.11ac: 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 <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>
Frequency Bands	2.4GHz radio: 2400-2483.5MHz 5GHz radio: 5150-5850MHz
Channel Bandwidth	2.4G: 20 and 40 MHz 5G: 20,40,80 and 160MHz
Wi-Fi and System Security	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
MIMO	2x2:2 2.4GHz 3x3:2 5GHz
Coverage Range	Up to 175 meters <small>*coverage range can vary based on environment</small>
Maximum TX Power	2.4G: 24dBm 5G: 24dBm <small>*Maximum power varies by country, frequency band and MCS rate</small>
Receiver Sensitivity	2.4G 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; 5G 802.11a: -92dBm @6Mbps, -74dBm @54Mbps; 802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz: -70dBm @MCS7; 802.11ac 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; 802.11ax 160MHz: -52dBm @MCS11
SSIDs	32 SSIDs total, 16 per radio (2.4GHz and 5 GHz)
Concurrent Clients	256
Network Interfaces	1x autosensing 10/100/1000 Base-T Ethernet Port
Auxiliary Ports	1x Reset Pinhole, 1x Kensington lock
Mounting	Indoor wall mount or ceiling mount, kits included
LEDs	3 tri-color LEDs for device tracking and status indication
Network Protocols	IPv4, IPv6, 802.1Q, 802.1p, 802.1x, 802.11e/WMM
QoS	802.11e/WMM, VLAN, TCS
Network Management	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
Power and Green Energy Efficiency	PoE 802.3af/ 802.3at; Maximum Power Consumption: 12.95W
Environmental	Operation: 0°C to 50°C Storage: -10°C to 60°C Humidity: 10% to 90% Non-condensing
Physical	Unit Dimension: 180.4mmx180.4mmx40.8mm(TBD); Unit Weight: 385g Entire Package Dimension: 228.5x220x79mm(TBD); Entire Package Weight: 630g
Package Content	GWN7660E Wireless AP, Mounting Kits, Quick Start Guide
Compliance	FCC, CE, RoHS, IC

www.grandstream.com

3.2024.01

Translations

[English](#)

[French](#)

[German](#)

[Italian](#)

[Polish](#)

[Portuguese](#)

[Russian](#)

[Spanish](#)

GWN Series Wi-Fi 6 Access Points

GWN7661 Datasheets



GRANDSTREAM
CONNECTING THE WORLD



Wi-Fi 6
2x2:2 MIMO

In-Wall Wi-Fi 6 Access Point

GWN7661

The GWN7661 is an in-wall 802.11ax Wi-Fi 6 access point designed for small-to-medium sized businesses, offices, residential and commercial locations, hotels and more. It offers dual-band 2x2:2 MU-MIMO technology as well as a sophisticated antenna design for maximum network throughput and expanded Wi-Fi coverage range. Wi-Fi 6 technology supports the modern generation of dense environments where many users and many devices require consistent and reliable Wi-Fi connections at higher speeds. The GWN7661 provides three Gigabit network ports to provide IP phones, IPTV, computers and similar devices with Ethernet while also providing uplink Gigabit network port with PoE/PoE+. It supports the access of wired terminals and also meet wireless coverage requirements. As an in-wall access point, it provides a clean and professional installation that blends into the surrounding environment. To ensure easy installation and management, the GWN7661 uses a controller-less distributed network management design in which the controller is embedded within the product's web user interface. The GWN7661 is also supported by GWN Cloud and GWN Manager, Grandstream's free 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 and 500+ concurrent clients per AP, the GWN7661 is an ideal Wi-Fi access point for medium wireless network deployments with medium user density.



Gigabit

1.77 Gbps wireless throughput and 4x Gigabit wireline ports



2x2 MIMO

Dual-band 2x2:2 MU-MIMO with DL/FUL OFDMA technology



PoE

Supports up to 500+ concurrent Wi-Fi client devices



QoS

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



Security

Anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate/random default password per device



Controller

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

Self power adaptation upon auto detection of PoE or PoE+

Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/ax
Antennas	4 single band internal antennas 2.4GHz x 2, gain 3.30dBi, gain 3.51dBi 5GHz x 2, gain 4.79dBi, gain 5.37dBi
Wi-Fi Data Rates	5G: IEEE 802.11ac: 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 2.4G: IEEE 802.11ac: 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 <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>
Frequency Bands	2.4GHz Radio: 2412 - 2484 MHz 5GHz Radio: 5180 - 5825 MHz <i>*Not all frequency bands can be used in all regions</i>
Channel Bandwidth	2.4G: 20 and 40 MHz 5G: 20, 40 and 80 MHz
Wi-Fi and System Security	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
MIMO	2x2:2 2.4GHz 2x2:2 5GHz
Coverage Range	Up to 100 meters <i>*coverage range can vary based on environment</i>
Maximum TX Power	2.4G: 24dBm 5G: 27dBm <i>*Maximum power varies by country, frequency band and MCS rate</i>
Receiver Sensitivity	5G 802.11a: -92dBm @5Mbps, -74dBm @54Mbps; 802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz: -70dBm @MCS7; 802.11ac 20MHz: -67dBm @MCS8; 802.11ac 40MHz: -63dBm @MCS9; 802.11ac 80MHz: -59dBm @MCS9; 802.11ax 20MHz: -60dBm @MCS11; 802.11ax 40MHz: -56dBm @MCS11; 802.11ax 80MHz: -56dBm @MCS11 2.4G 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
SSIDs	32 SSIDs total, 16 per radio (2.4GHz & 5GHz)
Concurrent Clients	Up to 500+
Network Interfaces	1x 10/100/1000M uplink Ethernet port with PoE/PoE+ 2x 10/100/1000M Ethernet ports with PSE 1x 10/100/1000M Ethernet port
Auxiliary Ports	1x Reset Pinhole
Mounting	In-wall mountable
LEDs	1 tri-color LED for device tracking and status indication
Network Protocols	IPv4, IPv6, 802.1Q, 802.1p, 802.1x, 802.11e/WMM
QoS	802.11e/WMM, VLAN, TOS
Network Management	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
Power and Green Energy Efficiency	Support 802.3az PoE 802.3af/ 802.3at; PSE Maximum Output Per Port: 6W; Maximum Power Consumption: 25W Operation: -10°C to 50°C
Environmental	Storage: -30°C to 60°C Humidity: 5% to 95% Non-condensing
Physical	Unit Dimension: 135mm(L)x86mm(W)x38.5mm(H); Unit Weight: 185g Entire Package Dimension: 176mm(L)x118.5mm(W)x65mm(H); Entire Package Weight: 400g
Package Content	GWN7661 Wi-Fi 6 In-Wall Wireless AP, Mounting Kits, Quick Installation Guide
Compliance	FCC, CE, RoHS, IC, UKCA

www.grandstream.com

04.2023.01

Translations

[English](#)

[French](#)

[German](#)

[Italian](#)

[Polish](#)

[Portuguese](#)

[Russian](#)

[Spanish](#)

GWN Series Wi-Fi 6 Access Points

GWN7662 Datasheets



Indoor Wi-Fi 6 Access Point

GWN7662

The GWN7662 is an 802.11ax Wi-Fi 6 access point ideal for small-to-medium sized businesses, home offices, retail shops, restaurants, hospitality, education and more. It offers 4x4 MU-MIMO technology on the 5G band and 2x2:2 MU-MIMO on the 2.4G band as well as a sophisticated antenna design for maximum network throughput and expanded Wi-Fi coverage range. Wi-Fi 6 technology supports the modern generation of dense environments where many users and many devices require consistent and reliable Wi-Fi connections at higher speeds. To ensure easy installation and management, the GWN7662 uses a controller-less distributed network management design in which the controller is embedded within the product's web user interface. The GWN7662 is also supported by GWN.Cloud and GWN Manager, Grandstream's free 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+, the GWN7662 is the ideal Wi-Fi access point for medium wireless network deployments with medium user density.



5.38 Gbps wireless throughput and 3.5 Gigabit wireline ports




5GHz 4x4:4 MU-MIMO with DL/UL OFDMA technology



Up to 175-meter coverage range



Supports 256 concurrent Wi-Fi client devices



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 can manage up to 50 local GWN series APs; GWN.Cloud offers unlimited AP management; GWN Manager offers premise-based software controller

www.grandstream.com

Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/Wave-2/ax
Antennas	6 single frequency internal antennas 2.4GHz 3.65dBi 5GHz 5.26dBi
Wi-Fi Data Rates	5G: IEEE 802.11ax: 8.6Mbps to 4804Mbps IEEE 802.11ac: 6.5 Mbps to 3464 Mbps IEEE 802.11n: 6.5Mbps to 600Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 2.4G: IEEE 802.11ax: 8.6Mbps to 573.5Mbps 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 <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>
Frequency Bands	2.4GHz Radio: 2412 - 2484 MHz (WiFi) 5GHz Radio: 5180 - 5825 MHz <small>*Not all frequency bands can be used in all regions</small>
Channel Bandwidth	2.4G: 20 and 40 MHz 5G: 20, 40, 80 and 160MHz
Wi-Fi and System Security	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
MIMO	2x2:2.4GHz (MU-MIMO) 4x4:4.5GHz (MU-MIMO)
Coverage Range	Up to 175 meters <small>*Coverage range can vary based on environment</small>
Maximum TX Power	2.4G: 25dBm 5G: 27dBm <small>*Maximum power varies by country, frequency band and MCS rate</small>
Receiver Sensitivity	2.4G 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: -56dBm @MCS11 5G 802.11a: -92dBm @6Mbps, -74dBm @54Mbps; 802.11n 20MHz: -74dBm @MCS7; 802.11n 40MHz: -71dBm @MCS7 802.11ac 20MHz: -67dBm@MCS8; 802.11ac HT40: -63dBm @MCS9; 802.11ac 80MHz: -59dBm @MCS9 802.11ax 20MHz: -60dBm @MCS11; 802.11ax 40MHz: -58dBm @MCS11; 802.11ax 80MHz: -56dBm @ MCS11
SSIDs	32 SSIDs total, 16 per radio (2.4GHz & 5GHz)
Concurrent Clients	256
Network Interfaces	1x autosensing 10/100/1000 Base-T Ethernet Port 1x autosensing 10/100/2500 Base-T Ethernet Port
Auxiliary Ports	1x Reset Pinhole, 1x Kensington lock
Mounting	Indoor wall mount or ceiling mount, kits included
LEDs	3 tri-color LEDs for device tracking and status indication
Network Protocols	IPv4, IPv6, 802.1Q, 802.1p, 802.1x, 802.11e/WMM
QoS	802.11e/WMM, VLAN, TOS
Network Management	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
Power and Green Energy Efficiency	Supports 802.3az PoE 802.3af/ 802.3at Maximum Power Consumption: 25W
Environmental	Operation: -10°C to 45°C Storage: -30°C to 60°C Humidity: 5% to 95% Non-condensing
Physical	Unit Dimension: 205.3mm(L)x205.3mm(W)x45.9mm(H); Unit Weight: 540g Entire Package Dimension: 218mm(L)x217mm(W)x46mm(H); Entire Package Weight: 910g
Package Content	GWN7662 Indoor Wi-Fi 6 Wireless AP, Mounting Kits, Quick Installation Guide
Compliance	FCC, CE, RCM, IC, UKCA

04.2023.01

www.grandstream.com

Translations

[English](#)

[French](#)

[German](#)

[Italian](#)

[Polish](#)



[Portuguese](#)

[Russian](#)

[Spanish](#)

GWN Series Wi-Fi 6 Access Points


GWN7664 Datasheets




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, 750+ 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.




3.5Gbps aggregate wireless throughput, 3.5Gbps aggregate wired throughput




Dual-band 4x4:4 MUMIMO with DL/UL OFDMA technology



Up to 175-meter coverage range




Support 750+ concurrent Wi-Fi client devices




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

www.grandstream.com

Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/ax
Antennas	8 individual internal antennas, 4 per band 2.4GHz, gain 3dBi 5 GHz, gain 4dBi
Wi-Fi Data Rates	5G: 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 2.4G: IEEE 802.11ac: 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>
Frequency Bands	2.4GHz Radio: 2412 - 2484 MHz 5GHz Radio: 5180 - 5825 MHz <small>*Not all frequency bands can be used in all regions</small>
Channel Bandwidth	2.4G: 20 and 40 MHz (x4) 5G: 20, 40 and 80 MHz (x4) or 160MHz (x2)
Wi-Fi and System Security	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
MIMO	4x4:4 2.4GHz 4x4:4 5GHz
Coverage Range	Up to 175 meters <small>*coverage range can vary based on environment</small>
Maximum TX Power	5G: 25dBm 2.4G: 25dBm <small>*Maximum power varies by country, frequency band and MCS rate</small>
Receiver Sensitivity	2.4G 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 5G 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
SSIDs	32 SSIDs total, 16 per radio (2.4GHz & 5GHz)
Concurrent Clients	512
Network Interfaces	1x 1G Port and 1x 2.5G Port, support 3.5Gbps aggregate wire throughput
Auxiliary Ports	1x Reset Pinhole, 1x Kensington lock
Mounting	Indoor wall mount or ceiling mount, kits included
LEDs	1 tri-color LEDs for device tracking and status indication
Network Protocols	IPv4, IPv6, 802.1Q, 802.1p, 802.1x, 802.11e/WMM
QoS	802.11e/WMM, VLAN, TOS
Network Management	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
Power and Green Energy Efficiency	PoE 802.3af/ 802.3at Maximum Power Consumption: 17W
Environmental	Operation: 0°C to 50°C Storage: -10°C to 60°C Humidity: 10% to 90% Non-condensing
Physical	Unit Dimension: 205.3mm(L)x225.3mm(W)x40.5mm(H); Unit Weight: 0.714kg Entire Package Dimension: 258x247x86mm; Entire Package Weight: 1.06kg
Package Content	GWN7664 802.11ax Wireless AP, Mounting Kits, Quick Start Guide
Compliance	FCC, CE, RCM, IC

11.2021.01

www.grandstream.com

Translations

[English](#)

[French](#)

[German](#)

[Italian](#)

[Polish](#)

[Portuguese](#)

[Russian](#)

[Spanish](#)

GWN Series Wi-Fi 6 Access Points

GWN7664E Datasheets (coming July)



High-Performance AX6000 Wi-Fi 6 Access Point

GWN7664E

The GWN7664E is a powerful, enterprise-grade high-performance 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 MU-MIMO with OFDMA technology and a sophisticated internal antenna design for stronger anti-interference, more stable connection, maximum network throughput of upto 6Gbps and expanded Wi-Fi coverage range. The GWN7664E 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 GWN7664E 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 2.5 Gigabit network ports with PoE+, the GWN7664E is an ideal Wi-Fi access point for business-grade wireless network deployments with medium-to-high user density.



6Gbps aggregate wireless throughput, 5Gbps aggregate wired throughput



Dual-band 4x4:4 MU-MIMO with OFDMA technology



Up to 175-meter coverage range



Support 512 concurrent Wi-Fi client devices



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+



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

Wi-Fi Standards	IEEE 802.11 a/b/g/n/ax/ax
Antennas	8 individual internal antennas, 4 per band 2.4GHz, gain 3.5dBi 5 GHz, gain 4.5dBi
Wi-Fi Data Rates	5G: IEEE 802.11ac: 7.3 Mbps to 4804 Mbps IEEE 802.11ac: 6.5 Mbps to 3467 Mbps IEEE 802.11n: 6.5Mbps to 600Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 2.4G: IEEE 802.11ac: 7.3 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
Frequency Bands	2.4GHz Radio: 2400 - 2483.5 MHz 5GHz Radio: 5150 - 5895 MHz <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>
Channel Bandwidth	2.4G: 20 and 40 MHz 5G: 20, 40, 80 and 160 MHz <small>*Not all frequency bands can be used in all regions</small>
Wi-Fi and System Security	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
MU-MIMO	4x4:4 5GHz
Coverage Range	Up to 175 meters <small>*coverage range can vary based on environment</small>
Maximum TX Power	5G: 25.5dBm 2.4G: 26.5dBm <small>*Maximum power varies by country, frequency band and MCS rate</small>
Receiver Sensitivity	5G 802.11b: -97dBm@1Mbps, -89dBm@11Mbps; 802.11g: -93dBm@6Mbps, -75dBm@54Mbps; 802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz: -70dBm @MCS7; 802.11ax 20MHz: -64dBm @ MCS11; 802.11ax 40MHz: -63dBm @MCS11 2.4G 802.11a: -93dBm @6Mbps, -75dBm @54Mbps; 802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz: -70dBm @MCS7; 802.11ac 20MHz: -70dBm@MCS8; 802.11ac: HT40: -66dBm @MCS9; 802.11ac 80MHz: -62dBm @MCS9; 802.11ax 20MHz: -64dBm @ MCS11; 802.11ax 40MHz: -61dBm @MCS11; 802.11ax 80MHz: -58dBm @MCS11; 802.11ax 160MHz: -55dBm @MCS11; SSID# 32 SSIDs total, 16 per radio (2.4GHz & 5GHz)
Concurrent Clients	512
Network Interfaces	2 x 2.5G Ports
Auxiliary Ports	1x Reset Pinhole, 1x Kensington lock
Mounting	Indoor wall mount or ceiling mount, kits included
LEDs	3 tri-color LEDs for device tracking and status indication
Network Protocols	IPv4, IPv6, 802.1Q, 802.1p, 802.1x, 802.11e/WMM
QoS	802.11e/WMM, VLAN, TOS
Network Management	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
Power and Green Energy Efficiency	PoE 802.3at; Maximum Power Consumption: 21W
Environmental	Operation: 0°C to 50°C Storage: -10°C to 60°C Humidity: 10% to 95% Non-condensing
Physical	Unit Dimension: 205.3mmx205.3mmx45.9mm; Unit Weight: 0.714kg Entire Package Dimension: 258mmx247mmx86mm; Entire Package Weight: 1.06kg
Package Content	GWN7664E 802.11ax Wireless AP, Mounting Kits, Quick Start Guide
Compliance	FCC, CE, RoHS, IC

www.grandstream.com

04.2024.03

Translations

[English](#)

[French](#)

[German](#)

[Italian](#)

[Polish](#)




[Portuguese](#)

[Russian](#)

[Spanish](#)

GWN Series Wi-Fi 6 Access Points


GWN7665 Datasheets




802.11ax Tri-Band Wi-Fi 6E Access Point

GWN7665


The GWN7665 is a powerful, enterprise-grade Wi-Fi 6E access point, ideal for small-to-medium sized businesses, multiple floor buildings, residential settings and commercial locations. It offers tri-band 2x2:2 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 GWN7665 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 GWN7665 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, Bluetooth® Low Energy (BLE) 5.2, 384 concurrent clients and dual Gigabit network ports with PoE/PoE+, the GWN7665 is an ideal Wi-Fi access point for business-grade wireless network deployments with medium-to-high user density.




5.4Gbps aggregate wireless throughput 3.5 Gigabit wireline ports




Tri-band 2x2:2 MU-MIMO with DL/UL OFDMA technology




Up to 175-meter coverage range




Support 384 concurrent Wi-Fi client




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

www.grandstream.com

Wi-Fi Standards	IEEE 802.11 a/b/g/n/ax
Antennas	7 individual internal antennas 2.4GHz x 2, gain 4.5dBi 5 GHz x 2, gain 5.5dBi 6 GHz x 2, gain 4.5dBi ET, gain 4.5dBi
2.4G	IEEE 802.11ac: 7.3 Mbps to 57.5 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
5G	IEEE 802.11ac: 7.3 Mbps to 2403 Mbps IEEE 802.11n: 6.5 Mbps to 1734 Mbps IEEE 802.11n: 6.5Mbps to 300Mbps
Wi-Fi Data Rates	IEEE 802.11ax: 6.9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11ac: 7.3 Mbps to 2403 Mbps IEEE 802.11ac: 6.5 Mbps to 1734 Mbps IEEE 802.11n: 6.5Mbps to 300Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
	*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.
Frequency Bands	2.4GHz Radio: 2412 ~ 2464 MHz 5GHz Radio: 5180 ~ 5825 MHz 6GHz Radio: 5945 ~ 7125MHz *Not all frequency bands can be used in all regions
Channel Bandwidth	2.4G: 20 and 40 MHz 5G: 20, 40, 80 and 160 MHz 6G: 20, 40, 80 and 160MHz
Wi-Fi and System Security	WPA3, WPA2/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
MU-MIMO	2x2:2 4GHz 2x2:2 5GHz 2x2:2 6GHz
Coverage Range	Up to 175 meters *Coverage range can vary based on environment
Maximum Tx Power	2.4G: 24dBm 5G: 27dBm 6G: 26 dBm *Maximum power varies by country, frequency band and MCS rate
2.4G	802.11b: -18dBm@1Mbps, -6dBm@11Mbps; 802.11g: -19dBm @4Mbps, -75dBm@54Mbps; 802.11n: 20MHz: -78dBm @MCS7; 802.11n: 40MHz: -70dBm @MCS7 802.11ax: 20MHz: -60dBm @MCS11; 802.11ax: 40MHz: -58dBm @MCS11
5G	802.11a: -30dBm @4Mbps, -72dBm @54Mbps; 802.11n: 20MHz: -71dBm @MCS7; 802.11n: 40MHz: -61dBm @MCS9; 802.11ac: 20MHz: -54dBm @MCS9; 802.11ac: 40MHz: -51dBm @MCS11; 802.11ac: 80MHz: -57dBm @MCS9; 802.11ac: 160MHz: -51dBm @MCS11
Receiver Sensitivity	802.11a: 20MHz: -58dBm @MCS11; 802.11a: 40MHz: -56dBm @MCS11; 802.11ac: 20MHz: -54dBm @MCS9; 802.11ac: 40MHz: -51dBm @MCS11; 802.11ac: 80MHz: -57dBm @MCS9; 802.11ac: 160MHz: -51dBm @MCS11
6G	802.11ax: 20MHz: -78dBm @MCS7; 802.11ax: 40MHz: -68dBm @MCS7; 802.11ax: 20MHz: -60dBm @MCS11; 802.11ax: 40MHz: -58dBm @MCS11; 802.11ax: 80MHz: -54dBm @MCS9; 802.11ax: 160MHz: -51dBm @MCS11
SSIDs	48 SSIDs total, 16 per radio (2.4GHz & 5GHz & 6GHz)
Concurrent Clients	384
Network Interfaces	1x autosensing 10/100/1000 Base-T Ethernet Port 1x autosensing 10/100/2500 Base-T Ethernet Port
Auxiliary Ports	1x Reset Pinhole, 1x Kensington lock
Mounting	Indoor wall mount or ceiling mount, kit included
LEDs	3 tri-color LEDs for device tracking and status indication
Network Protocols	IPv4, IPv6, 802.1Q, 802.1p, 802.1x, 802.11e/WMM
QoS	802.11e/WMM, VLAN, TOS
Network Management	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 on-premise software controller for up to 3,000 GWN APs
Power and Green Energy Efficiency	PoE 802.3at Maximum Power Consumption: 22.55W Operation: 0°C to 50°C Storage: -10°C to 60°C Humidity: 10% to 90% non-condensing
Environmental	
Physical	Unit Dimension: 205.3mmx205.3mmx45.9mm; Unit Weight: 765g Entire Package Dimension: 258mmx247mmx86mm; Entire Package Weight: 1106g
Package Content	GWN7665: Wireless AP, Mounting Kit, Quick Start Guide
Compliance	FCC, CE, RoHS, IC, UKCA

7.2023.01

www.grandstream.com

Translations

[English](#)

[French](#)

[German](#)

[Italian](#)

[Polish](#)

[Portuguese](#)

[Russian](#)

[Spanish](#)

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.



Gigabit

1.77Gbps aggregate wireless throughput and 2x Gigabit Ethernet ports



2x2 MIMO

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



PoE

Self power adaptation upon auto detection of PoE or PoE+



Support 500+ concurrent Wi-Fi client devices



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

www.grandstream.com

Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/ax
Antennas	2 dual band external antennas 2.4GHz, gain 3.5dBi 5 GHz, gain 3.5dBi
Wi-Fi Data Rates	5G: IEEE 802.11ac: 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 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 <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>
Frequency Bands	2.4GHz radio: 2412 - 2484 MHz 5GHz radio: 5180 - 5825 MHz <i>*Not all frequency bands can be used in all regions.</i>
Channel Bandwidth	2.4G: 20 and 40 MHz 5G: 20, 40 and 80 MHz
System Security	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
MU-MIMO	2x2:2 2.4GHz, 2x2:2 5GHz
Coverage Range	Up to 250 meters <i>*Coverage range can vary based on environment</i>
Maximum TX Power	5G: 26dBm 2.4G: 30dBm <i>*Maximum power varies by country, frequency band, and MCS rate</i>
Receiver Sensitivity	5G 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 2.4G 802.11b: -99dBm @1Mbps, -90dBm @11Mbps; 802.11g: -83dBm @6Mbps, -77dBm @54Mbps; 802.11n 20MHz: -74dBm @MCS7; 802.11n 40MHz: -72dBm @MCS7; 802.11ax 20MHz: -64dBm @ MCS11; 802.11ax 40MHz: -62dBm @MCS11
SSIDs	32 SSIDs total, 16 per radio (2.4GHz & 5GHz)
Concurrent Clients	256+
Network Interfaces	2x autosensing 10/100/1000 Base-T Ethernet Ports
Auxiliary Ports	1x Reset Pinhole
Mounting	Outdoor wall or pole mount; kits included
LEDs	1x tri-color LEDs for device tracking and status indication
Network Protocols	IPv4, IPv6, 802.1Q, 802.1p, 802.1x, 802.11e/WMM
QoS	802.11e/WMM, VLAN, TOS
Network Management	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
Power and Green Energy Efficiency	PoE 802.3af/ 802.3at; Maximum Power Consumption: 12.9W
Environmental	Operation: -30°C to 60°C Storage: -30°C to 70°C Humidity: 5% to 95% Non-condensing
Physical	Unit Dimension: 358.3mm(L)x115mm(W)x45.3mm(H); Unit Weight: 695g Entire Package Dimension: 275x185.5x89mm; Entire Package Weight: 995g
Package Content	GWN7660LR 802.11ax Wireless AP; Mounting Kits, Quick Installation Guide
Weatherproof Grade	IP66-level weatherproof capability when installed vertically
Compliance	FCC, CE, RoHS, IC

11.2021.01

www.grandstream.com

Translations

[English](#)

[French](#)

[German](#)

[Italian](#)

[Polish](#)

[Portuguese](#)

[Russian](#)

[Spanish](#)

GWN Series Wi-Fi 6 Access Points

GWN7660ELR Datasheets




Outdoor AX3000 Wi-Fi 6 Access Point

GWN7660ELR

The GWN7660ELR is an enterprise-grade long range Wi-Fi 6 access point that allows businesses to build next-generation Wi-Fi networks for high-density environments. It supports weatherproof casing and heat resistant technology, dual-band 2x2:2 MIMO with OFDMA technology and a sophisticated antenna design for maximum network throughput that supports 256 clients and an expanded 300-meter coverage range. It also provides IP67 weatherproof and dust-proof ability, as well as -30 to 60°C operating temperature, this ensures that the Wi-Fi 6 access point can operate properly in difficult weather conditions. To ensure easy installation and management, the GWN7660ELR includes a built-in controller embedded within the product's web user interface. It is also supported by GWN.Cloud and GWN Manager, Grandstream's free cloud and on-premise Wi-Fi management platform. The GWN7660ELR is the ideal Wi-Fi AP for voice-over-Wi-Fi deployment and offers a seamless connection with Grandstream's Wi-Fi voice and video IP phones. With support for advanced QoS, low-latency real-time applications, mesh networks, captive portals, Bluetooth® Low Energy (BLE) 5.2, a gigabit Ethernet port with PoE/PoE+ and a 2.5 Gigabit SFP port. The GWN7660ELR is an ideal outdoor Wi-Fi access point for enterprises, multiple floor offices, warehouses, hospitals, schools, and more.



3 Gbps aggregate wireless throughput, 1 Gbps RJ45 and 2.5 Gbps SFP wireline ports



Dual-band 2x2:2 MIMO with OFDMA technology



Self power adaptation upon auto detection of PoE/PoE+



Supports 256 concurrent Wi-Fi client devices




Up to 300-meter coverage range



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



Flexibility of 5 internal antennas



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

www.grandstream.com

Wi-Fi Standards	IEEE 802.11 b/g/n/ax/ac
Antennas	5 individual internal antennas 2.4GHz x 2, gain 5.5 dBi 5 GHz x 2, gain 6.0 dBi BT gain 4.5 dBi
SG	IEEE 802.11ax: 7.3 Mbps to 2403 Mbps IEEE 802.11n: 6.5 Mbps to 1734 Mbps IEEE 802.11n: 6.5 Mbps to 300 Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
Wi-Fi Data Rates	2.4G: IEEE 802.11ax: 7.3 Mbps to 573.5 Mbps IEEE 802.11n: 6.5 Mbps to 300 Mbps IEEE 802.11b: 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>
Frequency Bands	2.4GHz radio: 2412 - 2484 MHz 5GHz radio: 3180 - 5825 MHz <i>*Not all frequency bands can be used in all regions.</i>
Channel Bandwidth	2.4G: 20 and 40 MHz 5G: 20, 40, 80 and 160 MHz
System Security	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
MU-MIMO	Up to 300 meters
Coverage Range	<i>*Coverage range can vary based on environment</i>
Maximum TX Power	5G: 26dBm 2.4G: 27dBm <i>*Maximum power varies by country, frequency band, and MCS rate</i>
Receiver Sensitivity	2.4G 802.11b: -96dBm @1Mbps, -89dBm @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: -56dBm @MCS11; 5G 802.11a: -90dBm @6Mbps, -72dBm @54Mbps; 802.11n 20MHz: -71dBm @MCS7; 802.11n 40MHz: -68dBm @MCS7; 802.11ac 20MHz: -65dBm @MCS8; 802.11ac 40MHz: -61dBm @MCS9; 802.11ac 80MHz: -57dBm @MCS9; 802.11ac 160MHz: -55dBm @MCS9; 802.11ax 20MHz: -58dBm @MCS11; 802.11ax 40MHz: -56dBm @MCS11; 802.11ax 80MHz: -54dBm @MCS11; 802.11ax 160MHz: -51dBm @MCS11;
SSIDs	32 SSIDs total, 16 per radio (2.4GHz & 5GHz)
Concurrent Clients	256
Network Interfaces	1x 1G Port and 1x 2.5G SFP Port
Bluetooth®	BLE 5.2
Auxiliary Ports	1x Reset Pinhole, 1x Kensington lock
Mounting	Wall mount or pole mount, kits included
LEDs	1 tri-color LED for device tracking and status indication; 1 single-color LED for SFP
Network Protocols	IPv4, IPv6, 802.1Q, 802.1p, 802.1x, 802.11e/WMM
QoS	802.11e/WMM, VLAN, TOS
Network Management	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
Power and Green Energy Efficiency	Power 802.3at/ 802.3ac Maximum Power Consumption: 13W Operation: -30°C to 60°C Storage: -30°C to 70°C Humidity: 5% to 95% Non-condensing
Environmental	
Physical	Unit Dimension: 270mm x 230mm x 57mm Unit (including brackets): 1kg Entire Package Dimension: 439mm x 329mm x 137mm Entire Package Weight: 2.4kg
Package Content	GWN7660ELR AP, Mounting Kits, Quick Installation Guide
Weatherproof Grade	IP67-level weatherproof capability when installed vertically

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Grandstream is under license.

3.2024.02

www.grandstream.com

Translations

[English](#)

[French](#)

[German](#)

[Italian](#)

[Polish](#)

[Portuguese](#)

[Russian](#)

[Spanish](#)

17

GWN Series Wi-Fi 6 Access Points

GWN7664LR Datasheets



CONNECTING THE WORLD



Wi-Fi 6
CERTIFIED

High-Performance Outdoor Long-Range Wi-Fi 6 Access Point

GWN7664LR

The GWN7664LR is a high-end outdoor 802.11ax 4x4:4 Wi-Fi 6 access point for medium-to-large businesses and enterprises who need to provide long-range coverage in both indoor and outdoor spaces. It offers weatherproof casing and heat resistant technology, dual-band 4x4:4 MU-MIMO with DL/UL OFDMA technology and a sophisticated antenna design for maximum network throughput that supports 750 clients and an expanded 300-meter coverage range. To ensure easy installation and management, the GWN7664LR includes a built-in controller embedded within the product's web user interface. It is also supported by GWN.Cloud and GWN Manager, Grandstream's free cloud and on-premise Wi-Fi management platform. The GWN7664LR 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 GWN7664LR is an ideal outdoor Wi-Fi access point for enterprises, multiple floor offices, warehouses, hospitals, schools and more.



Gigabit

3.5Gbps aggregate wireless throughput, 2.5Gbps aggregate wired throughput



4x4 MIMO

Dual-band 4x4:4 MU-MIMO with DL/UL OFDMA technology



PoE

Self power adaptation upon auto detection of PoE/PoE+



300 meters

Up to 300-meter coverage range



QoS

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



Security

Anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate/random default password per device



Antennas

Flexibility of 4 detachable/changeable antennas for different application scenarios



Controller

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

www.grandstream.com

Wi-Fi Standards	IEEE 802.11 b/g/n/a/ax
Antennas	4 dual band external antennas 2.4GHz, gain 3.5dBi 5 GHz, gain 3.5dBi
Wi-Fi Data Rates	5G: IEEE 802.11ax: 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 2.4G: IEEE 802.11ax: 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 <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> <i>*Not all frequency bands can be used in all regions.</i>
Frequency Bands	2.4GHz radio: 2412 - 2484 MHz 5GHz radio: 5180 - 5825 MHz
Channel Bandwidth	2.4G: 20 and 40 MHz (x4) 5G: 20, 40 and 80 MHz (x4)
System Security	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
MU-MIMO	4x4:4 2.4GHz, 4x4:4 5GHz
Coverage Range	Up to 300 meters <i>*Coverage range can vary based on environment</i>
Maximum TX Power	5G: 25dBm 2.4G: 25dBm <i>Maximum power varies by country, frequency band, and MCS rate</i> 2.4G 802.11b: -99dBm@1Mbps, -91dBm@11Mbps; 802.11g: -84dBm @6Mbps, -78dBm@54Mbps; 802.11n 20MHz: -75dBm @MCS7; 802.11n 40MHz: -71dBm @MCS7; 802.11ax 20MHz: -64dBm @ MCS11; 802.11ax 40MHz: -63dBm @MCS11 Receiver Sensitivity 5G 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 SSIDs 32 SSIDs total, 16 per radio (2.4GHz & 5GHz) Concurrent Clients 750+ Network Interfaces 1x 1G Port and 1x 2.5G Port, support 2.5Gbps aggregate wired throughput Auxiliary Ports 1x Reset Pinhole Mounting Wall mount or pole mount, kits included LEDs 1 tri-color LEDs for device tracking and status indication Network Protocols IPv4, IPv6, 802.1Q, 802.1p, 802.1x, 802.11e/WMM QoS 802.11e/WMM, VLAN, TOS Network Management 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 Power and Green Energy Efficiency PoE 802.3af/ 802.3at; Maximum Power Consumption: 18W Environmental Operation: -30° to 60°C Storage: -30°C to 60°C Humidity: 10% to 90% Non-condensing Physical Unit Dimension: 562.3mm(L)x140mm(W)x44.9mm(H) Unit + Mounting Kits Dimension: 562.3mm(L)x140mm(W)x66.9mm(H) Entire Package Dimension: 260mm(L)x218.5mm(W)x108mm(H) Package Content GWN7664LR 802.11ax Wireless AP, Mounting Kits, Quick Installation Guide Weatherproof Grade IP66-level weatherproof capability when installed vertically Compliance FCC, CE, RoHS, IC, UKCA

6.2022.01

www.grandstream.com

Translations

[English](#)

[French](#)

[German](#)

[Italian](#)

[Polish](#)


[Portuguese](#)

[Russian](#)

[Spanish](#)

GWN Series Wi-Fi 6 Access Points

GWN7664ELR Datasheets



CONNECTING THE WORLD





High-Performance Outdoor AX6000 Wi-Fi 6 Access Point

GWN7664ELR

The GWN7664ELR is a high-performance outdoor long-range 802.11ax Wi-Fi 6 access point for medium-to-large businesses and enterprises who need to provide long-range coverage in outdoor spaces. It offers IP67-level weatherproof capability, dual-band 4x4:4 MU-MIMO with OFDMA technology and a sophisticated antenna design for up to 6 Gbps wireless throughput that supports 512 clients and an expanded 300-meter coverage range. To ensure easy installation and management, the GWN7664ELR includes a built-in controller embedded within the product's web user interface. It is also supported by GWN.Cloud and GWN Manager, Grandstream's free cloud and on-premise Wi-Fi management platform. The GWN7664ELR 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. This device features support for advanced QoS, low-latency real-time applications, mesh networks, captive portals, 2.5 Gigabit Ethernet port with PoE+, and a 2.5 Gigabit SFP port. The GWN7664ELR is an ideal outdoor Wi-Fi access point for enterprises, multiple floor offices, warehouses, hospitals, schools and more.




Gigabit

6Gbps aggregate wireless throughput, 2.5Gbps RJ45 and 2.5Gbps SFP wireline ports



4x4 MIMO

Dual-band 4x4:4 MU-MIMO with OFDMA technology



PoE+

2.5 Gigabit Ethernet Port supports self power adaptation upon auto detection of PoE+



Supports 512 concurrent Wi-Fi client devices



300 meters

Up to 300-meter coverage range




QoS


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



Flexibility of 8 internal antennas



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

Wi-Fi Standards

IEEE 802.11 b/g/n/a/ax

Antennas

8 individual internal antennas
2.4GHz, gain 5.5dBi
5GHz, gain 6.5dBi

Wi-Fi Data Rates

5G:
IEEE 802.11ac: 7.3 Mbps to 4804 Mbps
IEEE 802.11ac: 6.5 Mbps to 3467 Mbps
IEEE 802.11n: 6.5Mbps to 600 Mbps
IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

2.4G:
IEEE 802.11ac: 7.3 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

*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

Frequency Bands

2.4GHz radio: 2400 - 2483.5 MHz
5GHz radio: 5150 - 5895 MHz
*Not all frequency bands can be used in all regions.

Channel Bandwidth

2.4G: 20 and 40 MHz (x4)
5G: 20, 40, 80 and 160 MHz (x4)

System Security

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

MU-MIMO

4x4:4 2.4GHz, 4x4:4 5GHz

Coverage Range

Up to 300 meters
*Coverage range can vary based on environment

Maximum TX Power

5G: 23.5dBm
2.4G: 24.5dBm
*Maximum power varies by country, frequency band, and MCS rate

Receiver Sensitivity

5G
802.11a: -93dBm @6Mbps, -75dBm @54Mbps;
802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz: -70dBm @MCS7
802.11a: 20MHz: -70dBm @MCS8; 802.11a: HT40: -66dBm @MCS9; 802.11a: 80MHz: -62dBm @MCS9;
802.11n 20MHz: -64dBm @ MCS11; 802.11n 40MHz: -61dBm @MCS11; 802.11a 80MHz: -58dBm @MCS11;
802.11a 160MHz: -55dBm @MCS11;

SSIDs
32 SSIDs total, 16 per radio (2.4GHz & 5GHz)

Concurrent Clients

512

Network Interfaces

1x 2.5G RJ45 Port and 1x 2.5G SFP Port

Auxiliary Ports

1x Reset Button

Mounting

Wall mount or pole mount, kits included (The mounting kits can be rotated and adjusted by 60°)

LEDs

1 tri-color LEDs for device tracking and status indication, 1 single-color LED for SFP indication

Network Protocols

IPv4, IPv6, 802.1Q, 802.1p, 802.1x, 802.11e/WMM

QoS

802.11e/WMM, VLAN, TOS

Network Management

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

Power and Green Energy Efficiency

PoE 802.3at;
Maximum Power Consumption: 24W

Environmental

Operation: -30°C to 60°C
Storage: -30°C to 60°C
Humidity: 10% to 90% Non-condensing

Physical

Unit Dimension: 260mm(L)x310mm(W)x59mm(H); Unit Weight: 1.445kg
Entire Package Dimension: 469mm x 377mm x 137mm; Entire Package Weight: 3.06kg

Package Content

GWN7664ELR 802.11ax Wireless AP, Mounting Kits, Quick Installation Guide

Weatherproof Grade

IP67-level weatherproof capability

Compliance

FCC, CE, RoHS, IC

04.2024.02

www.grandstream.com

Translations

[English](#)

[French](#)

[German](#)

[Italian](#)

[Polish](#)

[Portuguese](#)

[Russian](#)

[Spanish](#)

19

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 \(PNG\)](#)

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

[GWN7660E \(PNG\)](#)
[GWN7660E \(PSD\)](#)

[GWN7660ELR \(PSD\)](#)
[GWN7660ELR \(PNG\)](#)

[GWN7661 \(PSD\)](#)
[GWN7661 \(PNG\)](#)

[GWN7664LR \(PSD\)](#)
[GWN7664LR \(PNG\)](#)

[GWN7662 \(PSD\)](#)
[GWN7662 \(PNG\)](#)

[GWN7665 \(PSD\)](#)
[GWN7665 \(PNG\)](#)

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

Social Image w/o Text

[GWN7660 \(PNG\)](#)
[GWN7660E \(PNG\)](#)

[GWN7661 \(PNG\)](#)
[GWN7662 \(PNG\)](#)

[GWN7664 \(PNG\)](#)
[GWN7665 \(PNG\)](#)

[GWN7660LR \(PNG\)](#)
[GWN7660ELR \(PNG\)](#)
[GWN7664LR \(PNG\)](#)

Suggested Social Post Copy

[GWN7660 \(Word\)](#)

[GWN7661 \(Word\)](#)

[GWN7662 \(Word\)](#)

[GWN7664 \(Word\)](#)

[GWN7665 \(Word\)](#)

[GWN7660LR \(Word\)](#)

[GWN7660ELR \(Word\)](#)

[GWN7664LR \(Word\)](#)

GWN Series Wi-Fi 6 Access Points

Marketing Assets - GWN7660 / GWN7660E / GWN7664E

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



2x2 MIMO



175 Meters



Devices



QoS



Security



PoE



Embedded Controller

GWN Series Wi-Fi 6 Access Points

Marketing Assets - GWN7661

Product Images

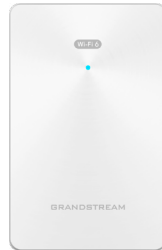
[GWN7661_1](#)

[GWN7661_2](#)

[GWN7661_3](#)

[GWN7661_4](#)

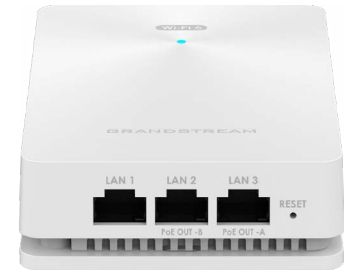
[GWN7661_5](#)



GWN7661_1



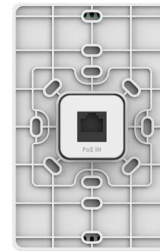
GWN7661_2



GWN7661_3



GWN7661_4



GWN7661_5

Feature Icons

[Gigabit](#)

[2x2 MIMO](#)

[Devices](#)

[QoS](#)

[Security](#)

[PoE](#)

[Embedded Controller](#)



Gigabit



2x2 MIMO



Devices



Embedded Controller



QoS



Security



PoE

GWN Series Wi-Fi 6 Access Points

Marketing Assets - GWN7662

Product Images

[GWN7662_1](#)

[GWN7662_2](#)

[GWN7662_3](#)

[GWN7662_4](#)

[GWN7662_5](#)



GWN7662_1



GWN7662_2



GWN7662_3



GWN7662_4



GWN7662_5

Feature Icons

[Gigabit](#)

[4x4 MIMO](#)

[175 Meters](#)

[Devices](#)

[QoS](#)

[Security](#)

[PoE](#)

[Embedded Controller](#)



Gigabit

Gigabit



**4x4
MIMO**

4x4 MIMO



**175
meters**

175 Meters



Devices



QoS



Security



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



4x4 MIMO



175 Meters



Devices



QoS



Security



PoE



Embedded Controller

GWN Series Wi-Fi 6 Access Points

Marketing Assets - GWN7665

Product Images

[GWN7665_1](#)

[GWN7665_2](#)

[GWN7665_3](#)

[GWN7665_4](#)



GWN7665_1



GWN7665_2



GWN7665_3



GWN7665_4

Feature Icons

[Gigabit](#)

[2x2 MIMO](#)

[175 Meters](#)

[Devices](#)

[QoS](#)

[Security](#)

[PoE](#)

[Embedded Controller](#)



Gigabit



2x2 MIMO



175 Meters



Devices



QoS



Security



PoE



Embedded Controller

GWN Series Wi-Fi 6 Access Points

Marketing Assets - GWN7660LR

Product Images

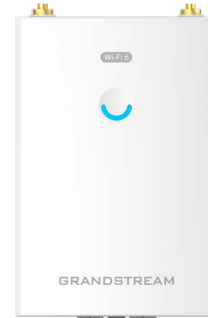
GWN7660LR Front

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



2x2 MIMO



250 Meters



QoS



Security



Devices



PoE



PoE



Embedded Controller

GWN Series Wi-Fi 6 Access Points

Marketing Assets - GWN7664LR

Product Images

[GWN7664LR_1](#)

[GWN7664LR_2](#)

[GWN7664LR_3](#)

[GWN7664LR_4](#)



GWN7664LR_1



GWN7664LR_2



GWN7664LR_3



GWN7664LR_4

Feature Icons

[Gigabit](#)

[4x4 MIMO](#)

[300 Meters](#)

[Devices](#)

[QoS](#)

[Security](#)

[PoE](#)

[Embedded Controller](#)

[Antenna](#)



Gigabit



4x4 MIMO



300 Meters



QoS



Security



Devices



PoE



PoE



Embedded Controller

GWN Series Wi-Fi 6 Access Points

Marketing Assets - GWN7664ELR

Product Images

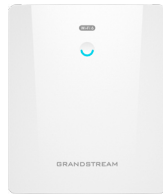
[GWN7664ELR_1](#)

[GWN7664ELR_2](#)

[GWN7664ELR_3](#)

[GWN7664ELR_4](#)

[GWN7664ELR_5](#)



GWN7664ELR_1



GWN7664ELR_2



GWN7664ELR_3



GWN7664ELR_4



GWN7664ELR_5

Feature Icons

[Gigabit](#)

[4x4 MIMO](#)

[300 Meters](#)

[Devices](#)

[QoS](#)

[Security](#)

[PoE](#)

[Embedded Controller](#)

[Antenna](#)



Gigabit



4x4 MIMO



300 Meters



QoS



Security



Devices



PoE



PoE



Embedded Controller

GWN Series Wi-Fi 6 Access Points

Marketing Assets - GWN7660ELR

Product Images

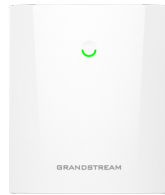
[GWN7660ELR_1](#)

[GWN7660ELR_2](#)

[GWN7660ELR_3](#)

[GWN7660ELR_4](#)

[GWN7660ELR_5](#)



GWN7660ELR_1



GWN7660ELR_2



GWN7660ELR_3



GWN7660ELR_4



GWN7660ELR_5

Feature Icons

[Gigabit](#)

[2x2 MIMO](#)

[300 Meters](#)

[Devices](#)

[QoS](#)

[Security](#)

[PoE](#)

[Embedded Controller](#)

[Antenna](#)



Gigabit



2x2 MIMO



300 Meters



QoS



Security



Devices



PoE



PoE



Embedded Controller