

GWN7660 - Sales Kit

Overview and Basics



About the GWN7660

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. It offers an effective solution for high density deployments.

Product Positioning

GWN7660 is a perfect Wi-Fi access point for medium wireless network deployments with medium-to-high user density 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+,

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



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

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Competitive Differentiators

Affordable and Powerful

The GWN7660 is a competitive device that was designed for an affordable Wi-Fi 6 solution, perfect for delivering the advantages of Wi-Fi 6 to offices, lecture halls, and other demanding wireless deployments

- **Wi-Fi 6:** Wi-Fi 6 exclusive technology allows the access point to better serve dense network deployments.
- **Market Leading Wi-Fi Standards:** Wave-2 IEEE 802.11a/b/g/n/ac/ax standards, this supports past, present, and future Wi-Fi devices
- **Greater Performance for Less Money:** 256+ concurrent devices, 175-meter coverage range, 1.77Gbps aggregate dual-band throughput

Network Management

Choose between three ways to manage your wireless network with the GWN7660.

- **GWN.Cloud:** Grandstream's cloud-based Wi-Fi access point management platform. Configure, manage, and troubleshoot unlimited wireless deployments entirely from the cloud
- **GWN Manager:** For deployments with higher security standards, the GWN Manager is a premise-based version of the GWN.Cloud
- **Built-in Controller:** The GWN7660 can manage up to 50 local GWN series access points



Advanced Features

The GWN7660 comes equipped with the advanced performance-boosting features of our GWN access points.

- **UL/DL OFDMA:** Access points running on the 802.11ax standard perform better in dense environments and are designed to manage multiple Wi-Fi devices with varying bandwidth demands
- **Beamforming Technology:** AP detects wireless clients and focus signals towards them
- **Multiple Customized SSIDs:** Up to 32 SSID channels with customized client configurations, captive portal, and bandwidth limits
- **QoS Standards:** Prioritizes certain network traffic/devices so critical tasks don't compete for bandwidth, can be customized based on deployment












Client Configuration

The way wireless clients access the internet through a GWN7660 can be highly customized based on AP or SSID.

- **Blacklist:** Prevents specific MAC addresses from connecting
- **Connection Time:** Enforce timeout of a connection and requires renewal
- **Wireless Client Limit:** Puts a cap on the maximum amount of wireless clients that can be connected to an SSID at a single time
- **Bandwidth Rules:** A variety of rules that restrict the bandwidth usage of client devices

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Grandstream Comparison

Specifications	Indoor Access Points							Outdoor Access Points	
Model	 GWN7600	 GWN7602	 GWN7605	 GWN7610	 GWN7615	 GWN7630	 GWN7660	 GWN7600LR	 GWN7630LR
Client Devices	450+	Up to 80	100+	250+	200+	200+	256+	450+	200+
Range	165 Meters	100 Meters	165 Meters	175 Meters	175 Meters	175 Meters	175 Meters	300 Meters	300 Meters
Network Interfaces	2x autosensing 10/100/1000 Base-T Ethernet Ports	1x 10/100/1000M uplink Ethernet port with PoE/PoE+ 2x 10/100M Ethernet port with PSE 1x 10/100M Ethernet port	2 x autosensing 10/100/1000 Base-T Ethernet Ports	2x autosensing 10/100/1000 Base-T Ethernet Ports	2x autosensing 10/100/1000 Base-T Ethernet Ports	2x autosensing 10/100/1000 Base-T Ethernet Ports	2x autosensing 10/100/1000 Base-T Ethernet Ports	2x autosensing 10/100/1000 Base-T Ethernet Ports	2x autosensing 10/100/1000 Base-T Ethernet Ports
PoE/PoE+	Supports PoE 802.3af Max consumption: 16.5W	Supports 802.3 az; PoE 802.3af/ 802.3at PSE max output per port: 6W; Max Consumption: 20W	Supports PoE 802.3af/ 802.3at Max Consumption: 10.16W	Supports PoE 802.3af/802.3at; Max consumption: 13.8W	Supports PoE 802.3af/802.3at; Max consumption: 12.5W	Supports PoE 802.3af/ 802.3at; Max Consumption: 16.5W	PoE 802.3af/ 802.3at; Maximum Power Consumption: 9W	Supports PoE 802.3af/802.3at; Max Consumption: 12.9 W (PoE); 23.0 W (PoE+)	Supports PoE 802.3af/802.3at; Max Consumption: 16.5W
2.4G Throughput	400Mbps (2x2:2 MIMO)	300Mbps (2x2:2 MIMO)	300Mbps (2x2:2 MIMO)	450Mbps (3x3:3 MIMO)	450Mbps (3x3:3 MIMO)	600Mbps (4x4:4 MIMO)	300Mbps (2x2:2 MIMO)	400Mbps (2x2:2 MIMO)	600Mbps (4x4:4 MIMO)
5G Throughput	867Mbps (2x2:2 MIMO)	867Mbps (2x2:2 MIMO)	867Mbps (2x2:2 MIMO)	1300Mbps (3x3:3 MIMO)	1300Mbps (3x3:3 MU-MIMO)	1733Mbps (4x4:4 MU-MIMO)	867Mbps (2x2:2 MIMO)	867Mbps (2x2:2 MU-MIMO)	1733Mbps (4x4:4 MU-MIMO)
Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac (Wave-2)	IEEE 802.11a/b/g/n/ac (Wave-2)	IEEE 802.11a/b/g/n/ac (Wave-2)	IEEE 802.11 a/b/g/n/ac	IEEE 802.11 a/b/g/n/ac (Wave-2)	IEEE 802.11 a/b/g/n/ac (Wave-2)	IEEE 802.11 a/b/g/n/ac/ax (Wi-Fi 6)	IEEE 802.11 a/b/g/n/ac (Wave-2)	IEEE 802.11a/b/g/n/ac (Wave-2)
SSIDs	16 SSIDs per access point	4 SSIDs per radio	8 SSIDs per radio	16 SSIDs per access point	16 SSIDs per access point	16 SSIDs per access point	32 SSIDs per access point	16 SSIDs per radio	16 SSIDs per radio
Network Management	GWN.Cloud GWN Manager Embedded Controller	GWN.Cloud GWN Manager	GWN.Cloud GWN Manager Embedded Controller	GWN.Cloud GWN Manager Embedded Controller	GWN.Cloud GWN Manager Embedded Controller	GWN.Cloud GWN Manager Embedded Controller	GWN.Cloud GWN Manager Embedded Controller	GWN.Cloud GWN Manager Embedded Controller	GWN.Cloud GWN Manager Embedded Controller
USB Port	1	0	0	0	0	0	0	0	0
Antennas	2 dual band internal antennas	2 dual band internal antennas	2 dual band internal antennas	2 dual band internal antennas	2 dual band internal antennas	4 dual band internal antennas	2 dual band internal antennas	2 dual band internal antennas	4 detachable/changeable dual-band omnidirectional antennas
Wi-Fi & System Security	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise (TKIP/AES), anti-hacking secure boot and critical data/control lockdown via digital signatures	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise, anti-hacking secure boot and critical data/control lockdown via digital signatures	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise (TKIP/AES), anti-hacking secure boot and critical data/control lockdown via digital signatures	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise (TKIP/AES), anti-hacking secure boot and critical data/control lockdown via digital signatures	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise, anti-hacking secure boot and critical data/control lockdown via digital signatures	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise, anti-hacking secure boot and critical data/control lockdown via digital signatures	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise, anti-hacking secure boot and critical data/control lockdown via digital signatures	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise (TKIP/AES), anti-hacking secure boot and critical data/control lockdown via digital signatures	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise, anti-hacking secure boot and critical data/control lockdown via digital signatures
Dimensions	180.4x180.4x40.8mm	135x115x30mm	180.4x180.4x40.8mm	205.3x205.3x45.9mm	205.4x205.4x45.9mm	205.3x205.3x45.9mm	180.4x180.4x40.8mm	290x150x35mm	533.1x115x40mm
Mounting	Indoor wall mount or ceiling mount	Wall Mountable	Indoor wall mount or ceiling mount	Indoor wall mount or ceiling mount	Indoor wall mount or ceiling mount	Indoor wall mount or ceiling mount	Indoor wall mount or ceiling mount	Outdoor base bracket and cover bracket	Wall mount or pole mount
Weatherproof Capabilities	N/A	N/A	N/A	N/A	N/A	N/A	N/A	IP66-level	IP66-level

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Deployment Scenarios

Offices

Medium and large offices can utilize the GWN7660 to create a mobile working environment for employees that doesn't sacrifice on performance.

- Wi-Fi 6 delivers an effective wireless connection for dense BYOD networks
- Onsite IT teams can easily manage, configure, and troubleshoot Wi-Fi network on their own
- Wi-Fi 6 OFDMA and QoS standards can organize the many different devices competing for bandwidth, limiting background usage and prioritizing Wi-Fi voice and video usage

Commercial Shops

Commercial stores can use the GWN7660 to create Wi-Fi environments for both guests and staff.

- Multiple network SSIDs and client configuration can be used to create dedicated networks for staff and guests
- Captive portals create secure public Wi-Fi channels
- Wi-Fi 6 standard can be leveraged to create a fast network for customers carrying smart devices

Education

Within demanding education environments, the GWN7660 can help both staff and students exceed with a rapid wireless connection.

- Client configuration allows students to only access Wi-Fi during specific times, through certain access points, or with whitelisted devices
- Wi-Fi network can easily be adjusted for year-to-year needs as student levels fluctuate
- High density solution for public and private schools that require cutting-edge Wi-Fi technology for new education strategies



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Grandstream Product Integration

Cordless Wi-Fi Phones

- Wi-Fi 6 MU-MIMO and UL/DL OFDMA creates a wireless environment that can simultaneously serve both Wi-Fi voice devices and typical wireless workstations effectively
- GWNs auto-recognizes Grandstream WP800 series wireless handsets and automatically share security authentications across the network, creating a seamless roaming experience



Desktop Endpoints

- Grandstream has a variety of Wi-Fi enabled desktop phones, deploying these devices will allow for less costly ethernet cabling and a less complicated infrastructure
- QoS standards will keep a high-quality experience, whether video conferencing on Grandstream multimedia video-phones or calling on one the GRP series of carrier-grade IP phones



Wi-Fi Access Point Management

- Both Grandstream cloud-based AP management platform, GWN.Cloud, and on-premise software management platform, GWN Manager, are able to add, configure, and monitor the GWN7660 within a GWN wireless network
- The GWN7660 is compatible with all other GWN series access points within Grandstream's portfolio, allowing it to actively manage up to 50 other GWN access points



Intercoms and Paging

- Grandstream's GSC series of intercom and paging devices are Wi-Fi capable so any and all pages and intercom calls can be executed over the wireless network, reducing cost and infrastructure management
- The GWN7660 is also equipped with dual gigabit networking ports that can provide an ethernet connection to a nearby ceiling mounted GSC series device if a wired connection is needed

