



AX3000 Wi-Fi 6 Access Point

GWN7660E

The GWN7660E is an enterprise-grade Wi-Fi 6 access point that enables businesses to build next-generation Wi-Fi networks for high-density environments. It features 2x2:2 MU-MIMO technology on the 2.4 GHz band and 3x3:2 MU-MIMO on the 5 GHz band, along with a sophisticated antenna design. It utilizes XTRA Range technology with beamforming for maximum network performance and extended Wi-Fi coverage. To ensure easy installation and management, the GWN7660E employs a controllerless distributed network management design, with the controller integrated into the product's web user interface. The GWN7660E is also compatible with GWN.Cloud and GWN Manager, Grandstream's on-premises and cloud-based Wi-Fi management platform. It is the ideal Wi-Fi AP for Voice over Wi-Fi deployments and offers seamless connectivity with Grandstream's Wi-Fi-enabled IP phones. With support for advanced QoS, low-latency real-time applications, mesh networking, captive portals, 256 simultaneous clients per AP, and Gigabit network ports with PoE/PoE+, the GWN7660E is an ideal Wi-Fi access point for medium-sized wireless network deployments with high user density.



Wireless throughput
3Gbps and 1 Gigabit wireless port



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



Coverage range of up to 175
meters



Supports 256 concurrent users
Wi-Fi client devices



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



Secure boot anti-hacking and critical
data/control lock using digital
signatures, unique security
certificate/random default
password per device



Automatic power
adaptation after automatic
detection of PoE or PoE+



The integrated controller can manage
up to 50 local GWN series APs;
GWN.Cloud offers unlimited AP
management; GWN Manager offers a
local software controller

Wi-Fi standards IEEE 802.11 a/b/g/n/ac/ax	
Antennas	5 individual internal antennas
	2.4 GHz x 2, 4.0 dBi gain
	5 GHz x 3, 5.0 dBi gain
Wi-Fi data throughput	5G: IEEE 802.11ax: 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 802.11ax: 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 the combination of devices on the network.</i>
Frequency Bands	2.4GHz Radio: 2400-2483.5MHz 5GHz Radio: 5150-5850MHz
Broadband Channel	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, secure boot anti-hacking and critical data/control lock using digital signatures, unique and random security certificate default password per device
MIME	2x2:2 2.4GHz 3x3:2 5GHz
Coverage range	Up to 175 meters <i>*Coverage range may vary depending on the environment.</i>
Maximum transmission power	5G: 24dBm 2.4G: 24dBm <i>*Maximum power varies depending on the country, frequency band, and MCS rate</i>
Receptor 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 in total, 16 per radio (2.4 GHz and 5 GHz)	
Simultaneous customers 256	
Network interfaces: 1 auto-sensing 10/100/1000 Base-T Ethernet port	
Auxiliary ports: 1x reset hole, 1x Kensington lock	
Mounting: Wall or ceiling mount for indoor use, kits included	
3 tri-color LED lights 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 administration	The integrated controller can manage up to 50 local GWN APs GWN.Cloud offers a free cloud management platform for unlimited GWN APs GWN Manager offers a local software controller for up to 3000 GWN APs
Green energy and energy efficiency	PoE 802.3af/ 802.3at; Maximum power consumption: 12.95 W
Environmental conditions	Operating temperature: 0°C to 50°C Storage: -10°C to 60°C Humidity: 10% to 90% non-condensing
Physical characteristics	Unit dimensions: 180.4 mm x 180.4 mm x 40.8 mm (to be determined); Unit weight: 385 g Dimensions of the complete package: 228.5 x 220 x 79 mm (to be determined); Weight of the complete package: 630 g
Package contents: GWN7660E wireless AP, mounting kits, quick start guide	
Compliant with FCC, CE, RCM, IC	