Manuals+ — User Manuals Simplified.

AX3000 Wi-Fi
6 Access
Point

GRANDSTREAM AX3000 Wi-Fi 6 Access Point Owner's Manual

Contents

GRANDSTREAM

GRANDSTREAM AX3000 Wi-Fi 6 Access Point

PRODUCT INFORMATION

Specifications

- Model: GWN7660E
- Wireless Throughput: 3Gbps
- Wireline Port: 1Gigabit
- Wireless Bands: Dual-band 2.4GHz and 5GHz
- Antennas: 5 internal antennas (2.4GHz x 2, 5GHz x 3)
- Coverage Range: Up to 175 meters
- Concurrent Clients: Supports 256 Wi-Fi client devices
- Network Interfaces: 1x autosensing 10/100/1000 Base-T Ethernet Port
- Power over Ethernet (PoE): 802.3af/802.3at
- Dimensions: 180.4mm x 180.4mm x 40.8mm
- Weight: 385g

Product Usage Instructions

Installation and Setup:

1. Locate a suitable indoor wall or ceiling mount for the access point.
2. Use the provided mounting kits to securely install the GWN7660E.
3. Connect the access point to a power source using PoE or PoE+.
4. Connect the Ethernet port to your network for data connectivity.

Configuration:

1. Access the device's web interface using a connected device's browser.
2. Follow the on-screen instructions to set up SSIDs, security settings, and network parameters.
3. Configure advanced settings such as QoS, VLANs, and other network protocols as needed.

Monitoring and Management:

1. Use the embedded controller to manage up to 50 local GWN series APs.
2. For cloud-based management, utilize GWN.Cloud for unlimited AP management.
3. Alternatively, use GWN Manager for premise-based software controller for up to 3,000 GWN APs.

FAQs

- **Q: How do I reset the GWN7660E to factory settings?**
    - A: Locate the reset pinhole on the device, use a paperclip to press and hold the reset button for about 10 seconds until the LEDs flash, indicating a successful reset.
- **Q: What is the maximum coverage range of the GWN7660E?**
    - A: The GWN7660E can provide coverage of up to 175 meters, but actual coverage may vary based on environmental factors.
- **Q: Can I use the GWN7660E in outdoor environments?**
    - A: The GWN7660E is designed for indoor use. For outdoor applications, consider using appropriate weatherproofing solutions.

INTRODUCTION

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 2×2:2 MU-MIMO technology on the 2.4G band and 3×3:2 MU-MIMO on the 5G band as well as a sophisticated antenna design and uses XTRA Range technology with beamforming formaximum 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.

FEATURE

- 3Gbps aggregate wireless throughput and 1Gigabit wireline port.
- Dual-band 2.4G 2×2:2 and 5G 3×3:2 MU- MIMO with 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. The cloud offers unlimited AP management; GWN Manager offers premise-based software controlled.

Specifications

- 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 5.0dB
- Wi-Fi Data Rates
  - 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
      *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: 2400-2483.5MHz
  - 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
    - 2×2:2 2.4GHz
    - 3×3:2 5GHz
- Coverage Range

  Up to 175 meters

  *coverage range can vary based on the environment
- Maximum TX Power
    - 5G: 24dBm
    - 2.4G: 24dBm

      *Maximum power varies by country, frequency band and MCS rate
- 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, 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: 12.95W
- 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, RCM, IC

CONTACT INFORMATION

- **www.partnernet-ict.com**
- **sales@partnernet-ict.com**

Documents / Resources

GRANDSTREAM AX3000 Wi-Fi 6 Access Point [pdf] Owner's Manual
AX3000 Wi-Fi 6 Access Point, AX3000, Wi-Fi 6 Access Point, Access Point

References

- **ict.com**
- **PartnerNET Home**
- **User Manual**