

Grandstream Indoor AX3000 Wi-Fi 6 Access Point (GWN7604)



Product Name: Grandstream Indoor AX3000 Wi-Fi 6 Access Point (GWN7604)

Manufacturer: Grandstream

Model Number: GWN7604

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The Grandstream GWN7604 is a compact AX3000 Wi-Fi 6 access point designed for small businesses, hotels, and home offices. It provides versatility through four Gigabit ethernet ports, including one uplink port that can receive PoE/PoE+ to power the access point, and two ports with PSE that can provide PoE and a network connection to other devices. The GWN7604 offers dual-band 2.4G 2x2:2 and 5G 3x3:2 MU-MIMO technology and a sophisticated antenna design to support 256 concurrent clients and up to 100-meter coverage range. This Wi-Fi access point can be easily installed and managed using GDMS Networking and GWN Manager, Grandstream's cloud and on-premise network management platforms. With support for advanced QoS, low-latency real-time applications, mesh networks, captive portals, 3Gbps wireless throughput, and four Gigabit network ports, the GWN7604 is the ideal Wi-Fi access point for small-to-medium sized deployments that require flexibility.

Grandstream GWN7604 Key Features:

- 3Gbps aggregate wireless throughput, 4x Gigabit wireline ports
- Up to 100 meters coverage range
- Self power adaptation upon auto detection of PoE/PoE+ and PSE
- Anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate/random default password per device
- Supports up to 256 concurrent Wi-Fi client devices
- Advanced QoS to ensure real-time performance of low-latency applications

Grandstream GWN7604 Technical Specifications

Mechanical

• Wi-Fi Standards: IEEE 802.11a/b/g/n/ac/ax

• Antennas: 2 x dual-band internal antennas, 1x 5G internal antenna Antenna1, 2.4G gain 3.0dBi, 5G gain 3.5dBi Antenna2, 2.4G gain 3.5dBi, 5G gain 3.0dBi 5G Antenna, gain 4.5dBi

• Wi-Fi Data Rates: 5G: IEEE 802.11ax: 7.3 Mbps to 2402 Mbps; IEEE 802.11ac: 6.5 Mbps to 1732 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: 2.4 GHz Radio: 2412 – 2483.5 MHz 5GHz Radio: 5150 - 5895 MHz *Not all frequency bands can be used in all regions. The band 5150-5350 MHz is restricted to indoor use only in all EU states.

• 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: 2x2:2 2.4GHz 3x3:2 5GHz

• Coverage Range: Up to 100 meters *Coverage range can vary based on environment

• Maximum TX Power 5G: 26dBm 2.4G: 24dBm *Maximum power varies by country, frequency band, and MCS rate

• Receiver Sensitivity 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 @

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MCS11;802.11ax 160MHz: -52dBm@ 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 and 5 ghz)

• Concurrent Clients: 256

• Network Interfaces: 1 x 10/100/1000M uplink Ethernet port with POE/POE+ 2 x 10/100/1000M Ethernet port with PSE 1 x 10/100/1000M Ethernet port

• Auxiliary Ports: 1x Reset Pinhole, 1x Kensington lock

• Mounting: Indoor wall 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 GDMS Networking 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 PSE max output: Total 12W power budget for LAN2/LAN3 Maximum Power Consumption: 7.5W (Excluding PoE Output)

• Environmental: Operation: 0°C to 45°C Storage: -10°C to 60°C Humidity: 10% to 90% Non-condensing

• Physical: Unit Dimension: 135 x 115 x 30mm; Unit Weight: 253g Entire Package Dimension: 171 x 140 x 33mm ; Entire Package Weight: 358g

• Package Content: GWN7604 AP, Mounting Kits, Quick Installation Guide

• Compliance: FCC, CE, RCM, IC

Price: £51.75