

## Insight Managed WiFi 6 AX3000 Dual-Band Gigabit PoE Wireless Access Point



WAX605

### Easy and Efficient WiFi 6 Access Point for Small and Medium Size Businesses

The WAX605 is a high performance WiFi 6 access point, ideal for small and medium sized businesses. The access point is a dual band 2x2 design delivering up to 3Gbps total WiFi throughput, supported by a gigabit Power-over-Ethernet port, an industry leader of performance and cost effectiveness in its product class.

The WAX605 supports the next generation WiFi 6 smart phones, IoT devices, and notebook computers. The WAX605 WiFi is based on WiFi 6 Release 2 technology, featuring 160MHz channelization on 5GHz band, delivering 100% more throughput than designs based on WiFi 6 Release 1. Compared to WiFi 5 access points, the WAX605 provides 4x the client device connection, allowing businesses to serve more customers with better speed and less congestion.

The WAX605 is ideal in high density client device environments such as schools, hotels, restaurants and conference centers, and provides enterprise grade WiFi network security. With Insight management, WAX605 works seamlessly with your current NETGEAR Insight managed switches, WiFi access points and network storage, and is compatible with previous generation WiFi devices (WiFi 5 802.11ac for example) and WiFi Access Points.

In the past several years, the WiFi industry has made progress in increasing speeds by leaps and bounds. However, capacity continues to be a challenge, namely, supporting a large number of concurrent users. This requirement is particularly acute for businesses, where very high throughput to each individual device may not be the paramount requirement. Rather, it is providing network connectivity to a large number of client devices, with good throughput, stable connection, and robust responses to environmental changes that is most important.

With the updated WiFi 6 (802.11ax) technology such as OFDMA, upstream and downstream MU-MIMO, and increased speeds, coverage, and capacity, you can feel confident that you're getting the highest performance WiFi that's set for years to come! Plus the assurance that you can now add more connected devices on your business WiFi network without any slowdowns or blind spots.

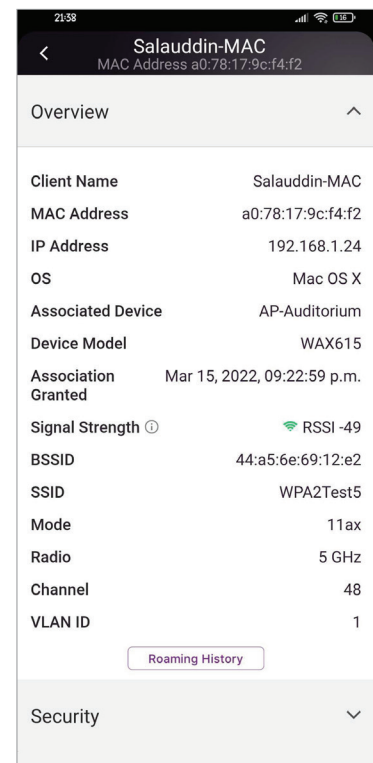
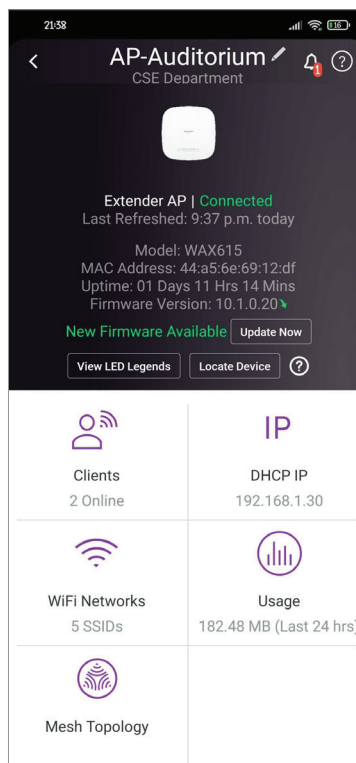
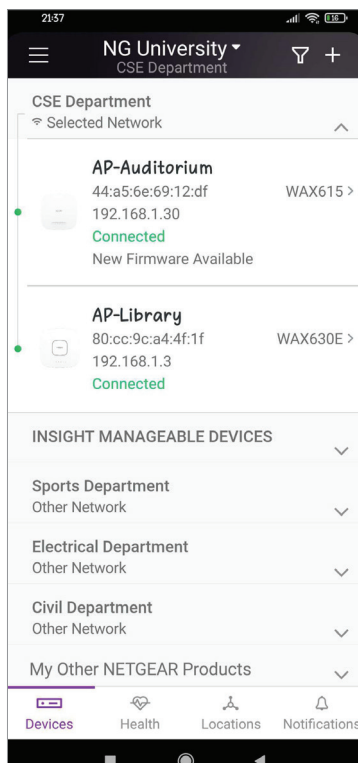
The WAX605, a WiFi 6 business access point, combined with Insight, helps small and medium businesses with an easy way to manage their network without an IT expert, providing great WiFi connection leaving each of their customers satisfied as a network user. NETGEAR empowers businesses with an all new WiFi 6 business access point for high performance and high coverage for the years to come.

The WAX605 is compatible with WAC510, WAC564, WAX610, WAX610Y, WAX620, WAX630, WAX630E Insight managed access points to form a scalable wireless network.

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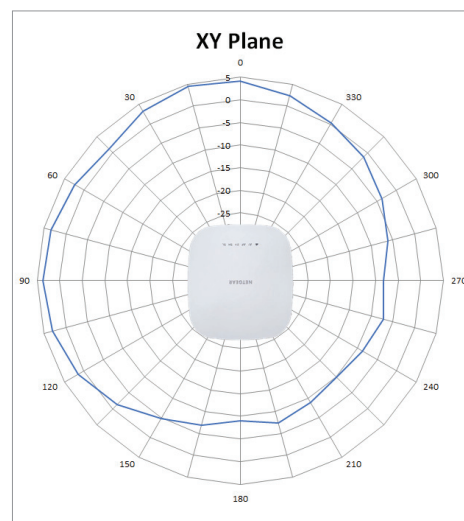
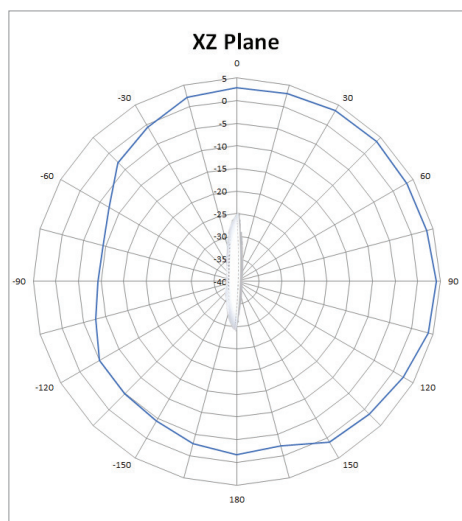
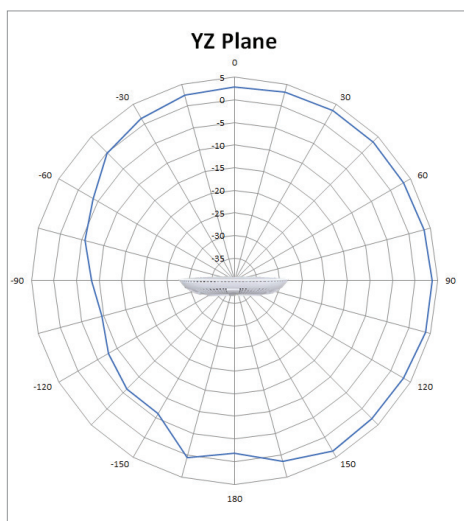
### Business Features for higher speed, greater coverage and higher density WiFi

- Business class WiFi based on next generation 802.11ax WiFi 6 technology on both 5GHz and 2.4GHz bands. (Backward compatible to 802.11b/g/n/a/ac)
- Dual band 2x2 (2.4GHz and 5GHz) 4 streams of data for an aggregate throughput of up to 3Gbps
- Instant WiFi Mesh forming wireless backhaul with other WAC540, WAC564, WAX610, WAX610Y, WAX620, WAX630, or WAX630E units to form a WiFi mesh network
- 160MHz channelization on the 5GHz allows 100% more throughput than WiFi 6 Release 1 80MHz channelization
- 4 times more client device supported
- Enterprise security and Enhanced Open security, such as WPA3/WPA3 Enterprise, 8x SSID and VLAN
- Basic Service Set Coloring (BSS Coloring) enabling significant improvement in radio frequency channel efficiency and reduction of interference
- Orthogonal Frequency Division Multiple Access (OFDMA) allowing simultaneous services to multiple devices in the same channel thus improving bandwidth efficiency and reducing latency
- Gigabit Ethernet port, backward compatible with 100/1000Mbps Ethernet, supported by NETGEAR GSM4210P, MS510TXPP and other gigabit Ethernet switches
- Target Wake Time (TWT) allows more efficient power usage resulting in longer battery life in WiFi 6 client devices
- Beamforming+; Advanced 6th generation WiFi technology such as up and downstream MU-MIMO
- One 802.3af gigabit PoE port: Remote management and monitoring from NETGEAR Insight app or Cloud portal for unrivaled management experience of your wireless network
- App managed for faster installation through NETGEAR Insight app or Cloud portal with no additional hardware needed
- Market leading 5-year warranty with 24/7 chat support for peace of mind

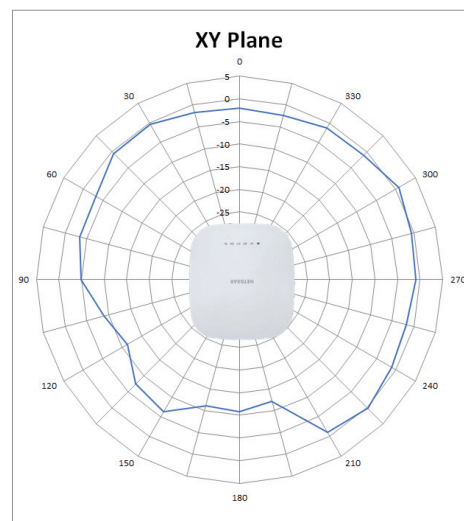
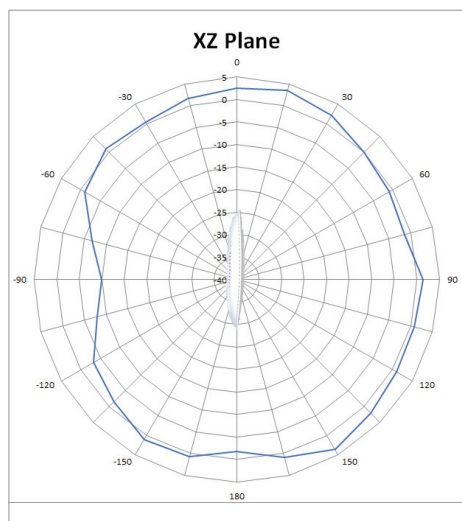
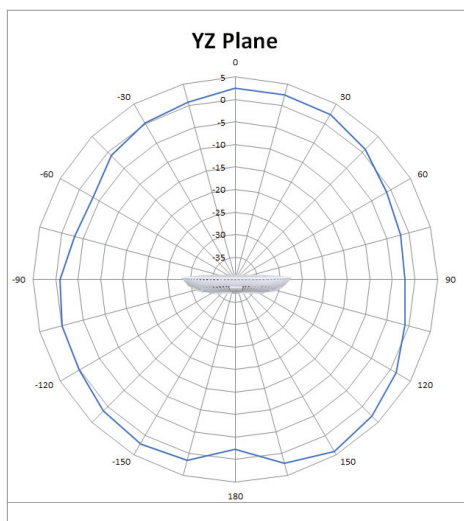


## Radio Patterns for WAX605

### Radio Pattern for 2.4GHz



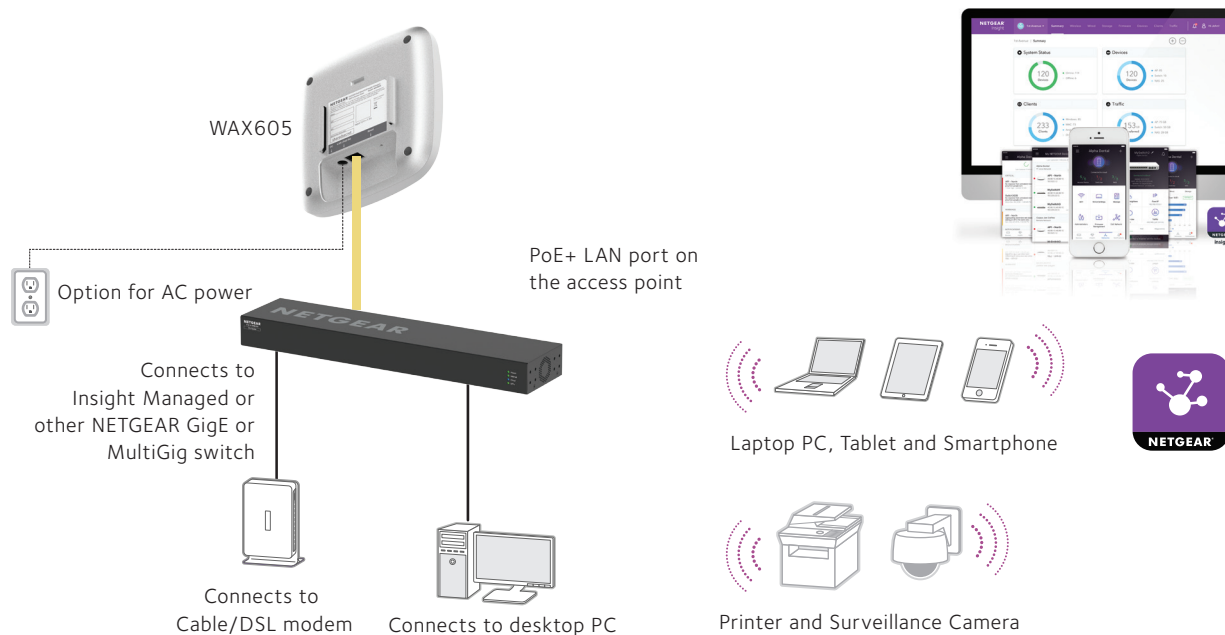
### Radio Pattern for 5GHz



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### Example Application

#### WAX605 Deployment Scenario



# Insight Managed WiFi 6 AX3000 Dual-Band Gigabit PoE Wireless Access Point

## Technical Specifications

Product Information	WAX605
WiFi Standards	5GHz: 802.11a/n/ac/ax; 2.4GHz: 802.11b/g/n/ax
Wireless Mode (Transmit x Receive)	2x2 in 5GHz; 2x2 in 2.4GHz
Channelization	5GHz: 20/40/80/160MHz; 2.4GHz: 20/40MHz
OFDM/OFDMA	OFDM and OFDMA
BSS Coloring	Yes
Multi-User MIMO	Bidir MU-MIMO
Target Wake Time (TWT) <sup>2</sup>	Yes
Maximum Theoretical Throughput	AX3000 3Gbps
Maximum Theoretical Throughput per Band	5GHz: 2400Mbps; 2.4GHz: 600Mbps
Antenna Gain	Internal 2.9/2.8dBi (2.4GHz/5GHz)
Power over Ethernet (PoE)	802.3af
PoE Power Consumption	12.8W
Centralized Management	Insight App
Secure Socket Layer (SSL)	Yes
Router Mode	No
Wireless Distribution System (WDS)	
Repeater	Yes
Bridge Point-to-point/Multi-point	Yes
Simultaneous Bridge and Wireless Client Association	Yes
Security	
WiFi Protected Access (WPA/WPA2/WPA3), 802.11i	Yes
MAC address filtering with access control	Yes
802.1x RADIUS support with EAP TLS, TTLS, PEAP	Yes
Neighbor AP detection	Yes
Block SSID Broadcast	Yes
VLAN Support	Yes
Guest Network/Captive Portal	Yes
Bandwidth management	Yes
Link Layer Discovery Protocol	Yes
Bandsteering	Yes
Instant WiFi Mesh	
Wireless backhaul to form Mesh Network	Yes

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## Technical Specifications

Standards		WAX605
IEEE 802.11ax WiFi 6 standard		Yes
WMM Wireless Multimedia Prioritization		Yes
WDS Wireless Distribution System		Yes
Power over Ethernet (PoE) IEEE 802.3af		Yes, approximately 60% of full throughput performance
Power over Ethernet (PoE) IEEE 802.3at		Yes
OFDM/OFDMA		Yes
Physical Specifications		
Dimensions W x D x H		160 X 160 X 30 mm (6.30 X 6.30 X 1.18 in)
Weight		0.38kg (0.83lb)
Environmental Specifications		
Operating temperature		0° to 40°C (32° to 104°F)
Physical Interfaces		
Interface		One 100/1000/BASE-T Gigabit Ethernet (RJ-45) ports with Auto Uplink™ (Auto MDI-X) supporting IEEE 802.3af or 802.3at Power over Ethernet (PoE)
LED		Four (4): Power and Cloud connection; LAN speed; 2.4GHz status; 5GHz status
Security		
WiFi Protected Access® (WPA, WPA2, WPA3)		Yes
WPA2 and WPA3 Enterprise		Yes
Wireless access control to identify authorized wireless network devices		Yes
MAC address authentication		Yes
Network Management		
NETGEAR Insight App		App management for setup, monitoring and management
Advanced Wireless		
Wireless Distribution System (WDS)		Bridge mode: Point-to-point wireless
		Bridge mode: Point-to-multipoint wireless
		Repeater mode
		Adjustable Transmit Power Control (TPC)
		Device detection
		Identify type of wireless clients in the network

# Insight Managed WiFi 6 AX3000 Dual-Band Gigabit PoE Wireless Access Point

## Technical Specifications

Package Contents		WAX605
		WAX605 Insight managed wireless access point Wall/ceiling mount kit Installation guide
Warranty and Support		
Hardware Limited Warranty		5 years
Technical support (online, phone)		90 days free from date of purchase*
ProSUPPORT OnCall 24x7 Service Packs**		Category S2 PMB0S12-10000S PMB0S32-10000S PMB0S52-10000S
Ordering Information		
WAX605-100NAS	US	
Compatible Power Adapters from NETGEAR		
PAV12V-100NAS	US	

\*This product comes with a limited warranty that is valid only if purchased from a NETGEAR authorized reseller, and covers unmodified hardware, fans and internal power supplies - not software or external power supplies, and requires product registration using the Insight mobile app or Insight Cloud portal within 90 days of purchase; see <https://www.netgear.com/about/warranty> for details. Intended for indoor use only.

\*\*The NETGEAR OnCall 24x7 contract provides unlimited phone, chat and email technical support for your networking product.

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