





High Performance WiFi 6 Access Points for the Commercial and Residential Integrators

The WAX618 is a high performance WiFi 6 access point, ideal residential and commercial integration projects. The access point is a dual band 2x2 design delivering up to 3Gbps total WiFi throughput, supported by a 2.5Gbps Power-over-Ethernet port, an industry leader of performance and cost effectiveness in its product class.

The WAX618 supports the next generation WiFi 6 smart phones, IoT devices, and notebook computers. The WAX618 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 WAX618 provides 4x the client device connection, allowing for better speed and less congestion.

The WAX618 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, WAX618 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.

Enjoy a 4-year Insight subscription plus 4 years of ProSUPPORT, a 24/7 live expert technical support by phone, chat and email.

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. 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 WiFi network without any slowdowns or blind spots.

The WAX618, a WiFi 6 access point, combined with Insight, helps integrators with a way to remotely manage their client's network, providing seamless WiFi connection and satisfied client experiences. NETGEAR empowers integrators with an all new WiFi 6 access point for high performance and high coverage for the years to come.



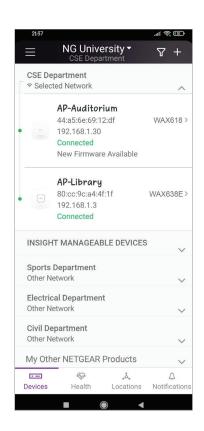


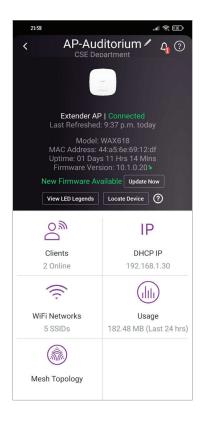
High-end performance and unbeatable security for WiFi integration projects

- 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 WAX618, WAX628, or WAX638E 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 effeciency 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
- 2.5GbE port, backward compatible with 100/1000Mbps Ethernet, supported by NETGEAR GSM4210P, MS510TXPP and other multi-gig 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 802.3at 2.5Gbps 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

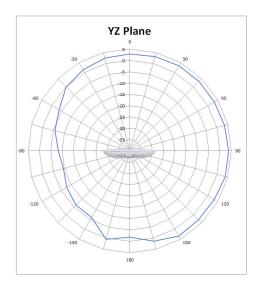




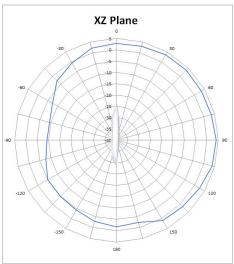


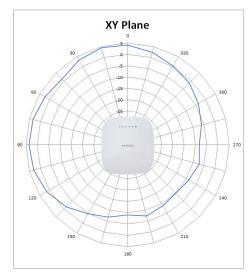


Radio Pattern for 2.4GHz

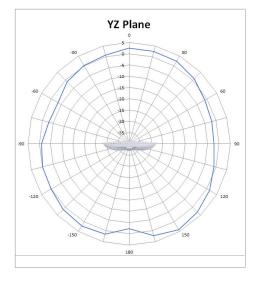


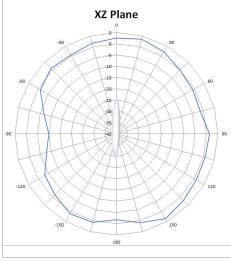
Radio Patterns for WAX618

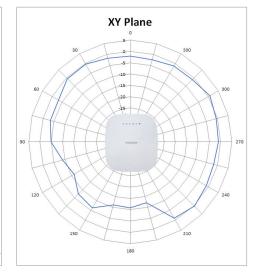




Radio Pattern for 5GHz





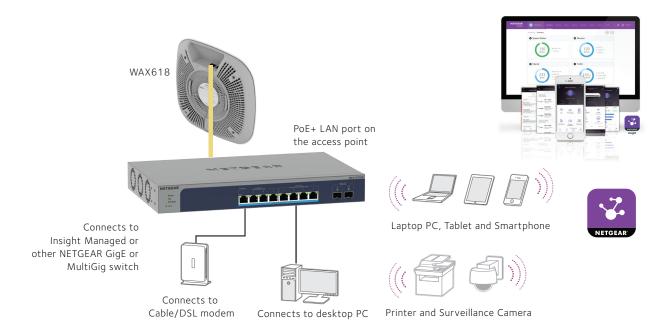






Example Application

WAX618 Deployment Scenario







Product Comparison

/AX638E
GHz: 802.11ax : 802.11a/n/ac/ax :: 802.11b/g/n/ax
c2 in 6.0GHz c4 in 5.0GHz c2 in 2.4GHz
20/40/80/160MHz 20/40/80/160MHz 3Hz: 20/40MHz
M and OFDMA
Yes
dir MU-MIMO
Yes
7800 7.8Gbps
Hz: 2400Mbps Hz: 4800Mbps GHz: 600Mbps
al 4.4/6.3/3.1 dBi Hz/5GHz/6GHz)
802.3bt/at
0 sq.ft. (275m²)
27.64W
nsight App
Yes
Yes
Yes
Yes
Yes





Identify type of wireless clients in the network

Technical Specifications

Standards	WAX618
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	9.5 x 9.5 x 1.58 in (241.5 x 241.5 x 40.2 mm)
Weight	727 g (1.6 lb)
Environmental Specifications	
Operating temperature	0° to 40°C(32° to 104°F)
Physical Interfaces	
Interface	One 100/1000/2.5GBASE-T Gigabit Ethernet (RJ-45) ports with Auto Uplink™ (Auto MDI-X) supporting IEEE 802.3af or 802.3at Power over Ethernet (PoE)
Power adapter (not included)	12V DC, 2.5A; plug is localized to country of sale
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



Data Sheet | WAX618

Insight Managed WiFi 6 AX3000 Dual-Band Multi-Gig PoE Wireless Access Point

Technical Specifications

Package Contents		WAX618	
		WAX618 Insight managed	
		wireless access point	
		Wall/ceiling mount kit	
		Installation guide	
Warranty and Support			
Hardware Limited Warranty		5 years	
Next-Business-Day (NBD) Replacement		5 years	
Technical support (online, phone)		90 days free from date of purchase*	
ProSUPPORT OnCall 24x7 Service Packs (This NETGEAR product comes with 4 years o remote management subscription and 4 year ProSupport OnCall 24x7 Service Pack.**)		PMB0312-10000S, 1 year PMB0332-10000S, 3 years PMB0352-10000S, 5 years	
Ordering Information			
WAX618-111APS	Asia Pacific		
WAX618-111EUS	Europe		
WAX618-111NAS	US		
Compatible Power Adapters from NETGEAR			
PAV12V-100AUS	Australia and New Zealand		
PAV12V-100EUS	Europe except UK		
PAV12V-100NAS	US and Canada		
PAV12V-100PRS	China		
PAV12V-100UKS	UK		

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^{*}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.