



WiFi 6 Access Points for Commercial and Residential Integrators

The WAX608Y is a fast, weather-resistant WiFi 6 access point, ideal for residential or commercial integration projects with outdoor WiFi coverage needs. The dual-band access point delivers up to 1.8Gbps total WiFi throughput and is supported by a 2.5Gbps Power-over-Ethernet (PoE) port. The WAX608Y comes with (4) four years of Insight Pro remote management and (4) four years of ProSupport included.

WAX608Y is designed to withstand harsh environment conditions including prolonged exposure to sunlight, cold, frost, snow, rainfall, hail, and humidity. It is rated IP55 and supports temperatures from -20C to 60C.

The WAX608Y supports WiFi 6 smart phones, IoT devices, and notebook computers, delivering up to 40% more throughput to each individual device in the 5GHz band and 70% more throughput in the 2.4GHz band, compared to the previous generation equivalent model. It also provides 4x the client device connection, allowing businesses to serve more customers with better speed and less congestion.

The WAX608Y is ideal in large residential estates or high density client device environments such as schools, hotels, restaurants and conference centers, and provides enterprise grade WiFi network security. With Insight management, WAX608Y 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 access point provides network connectivity to a large number of client devices, with good throughput, stable connection, and robust responses to environmental changes that is most important.

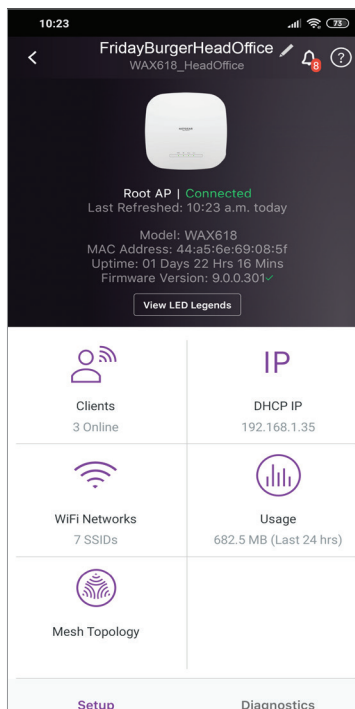
With the updated WiFi 6 (802.11ax) technology such as OFDMA, upstream and downstream MU-MIMO, and increased speeds, coverage, and capacity, you can feel confident that you're getting the highest performance WiFi that's set for years to come! Plus the assurance that you can now add more connected devices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

The WAX608Y 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.

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

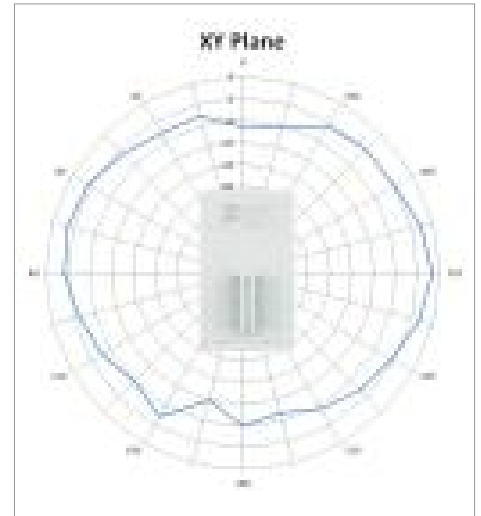
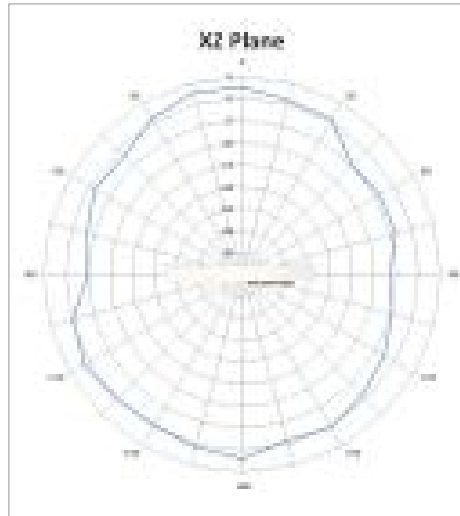
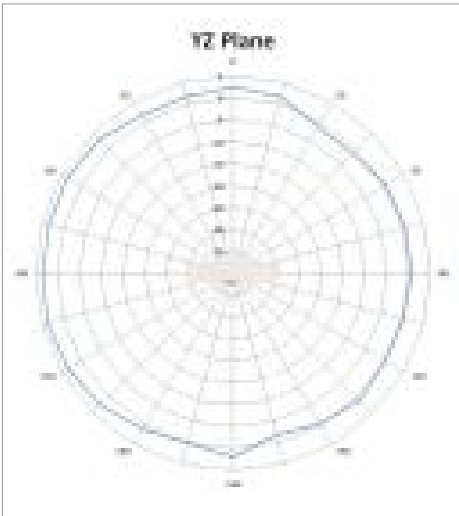
- Business class WiFi based on next generation 802.11ax WiFi 6 technology on both 5.0GHz and 2.4GHz bands. (Backward compatible to 802.11b/g/n/a/ac)
- Dual band 2x2 (2.4GHz and 5.0GHz) 4 streams of data for an aggregate throughput of up to 1.8Gbps
- Instant WiFi mesh forming wireless backhaul with other WAX618, WAX608Y, and other Pro WiFi access points to form a WiFi mesh network
- 40% more throughput in 2-stream 5.0GHz band and 70% more throughput in 2-stream 2.4GHz band compared to previous generation
- 4 times more client device supported
- Enterprise security and Enhanced Open security, such as WPA3, WPA Enterprise¹, 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
- 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
- Remote management and monitoring from NETGEAR Insight app or Cloud portal for unrivaled management experience of your wireless network.
- App managed. Faster installation through NETGEAR Insight app or Cloud portal. No additional hardware needed.
- Market leading 5-year warranty with 24/7 chat support for peace of mind

¹ WPA Enterprise will be available in a future software upgrade.

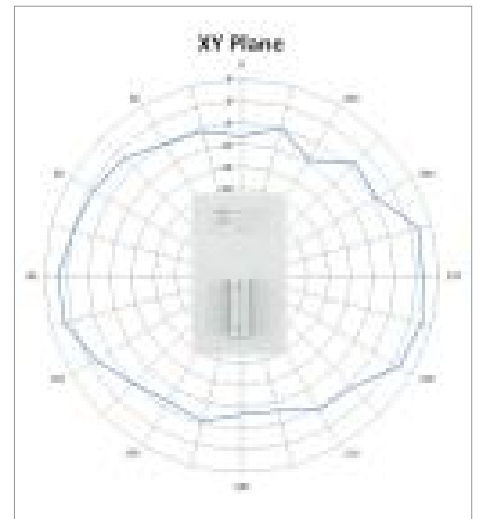
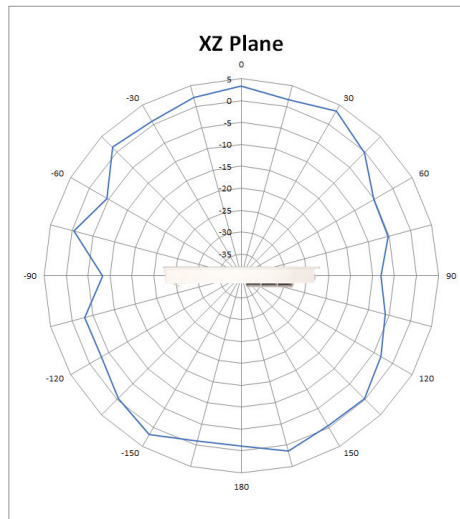
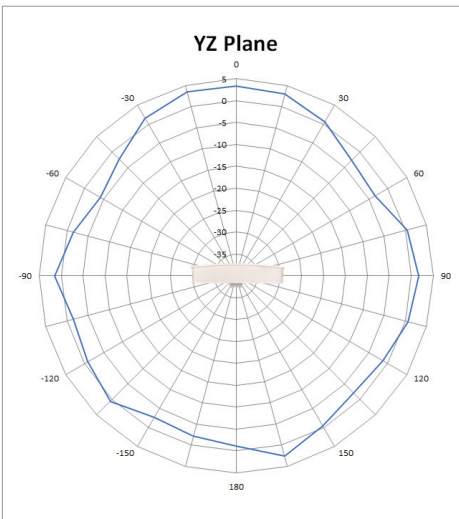


Radio Patterns for WAX608Y

Radio Pattern for 2.4GHz

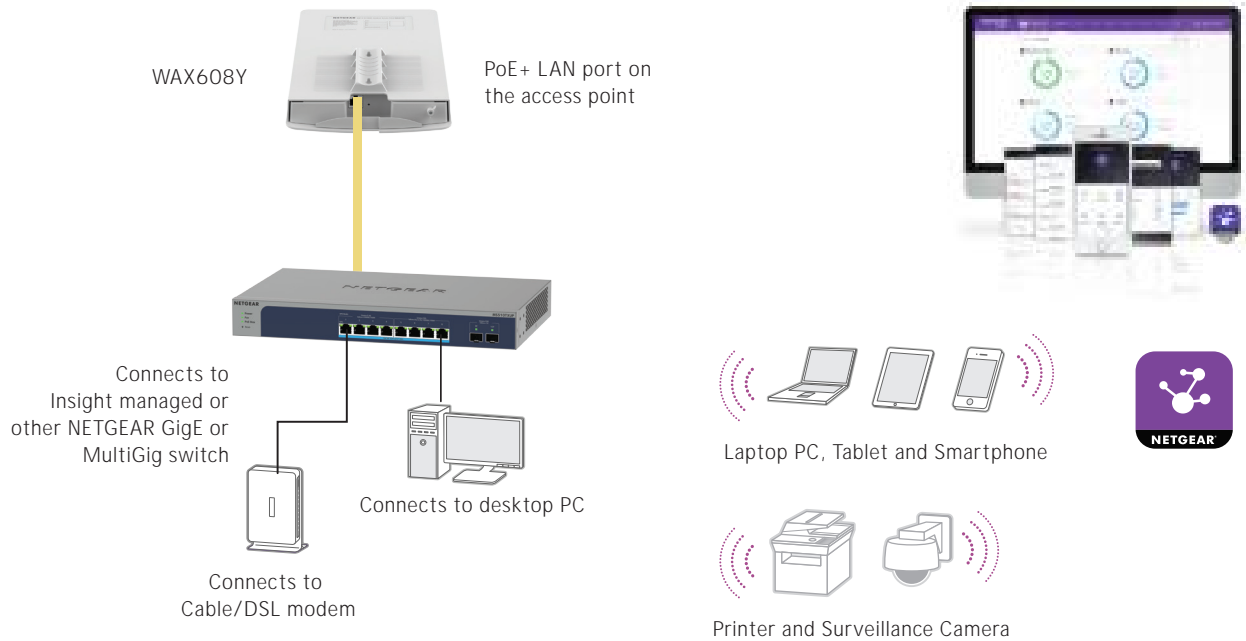


Radio Pattern for 5GHz

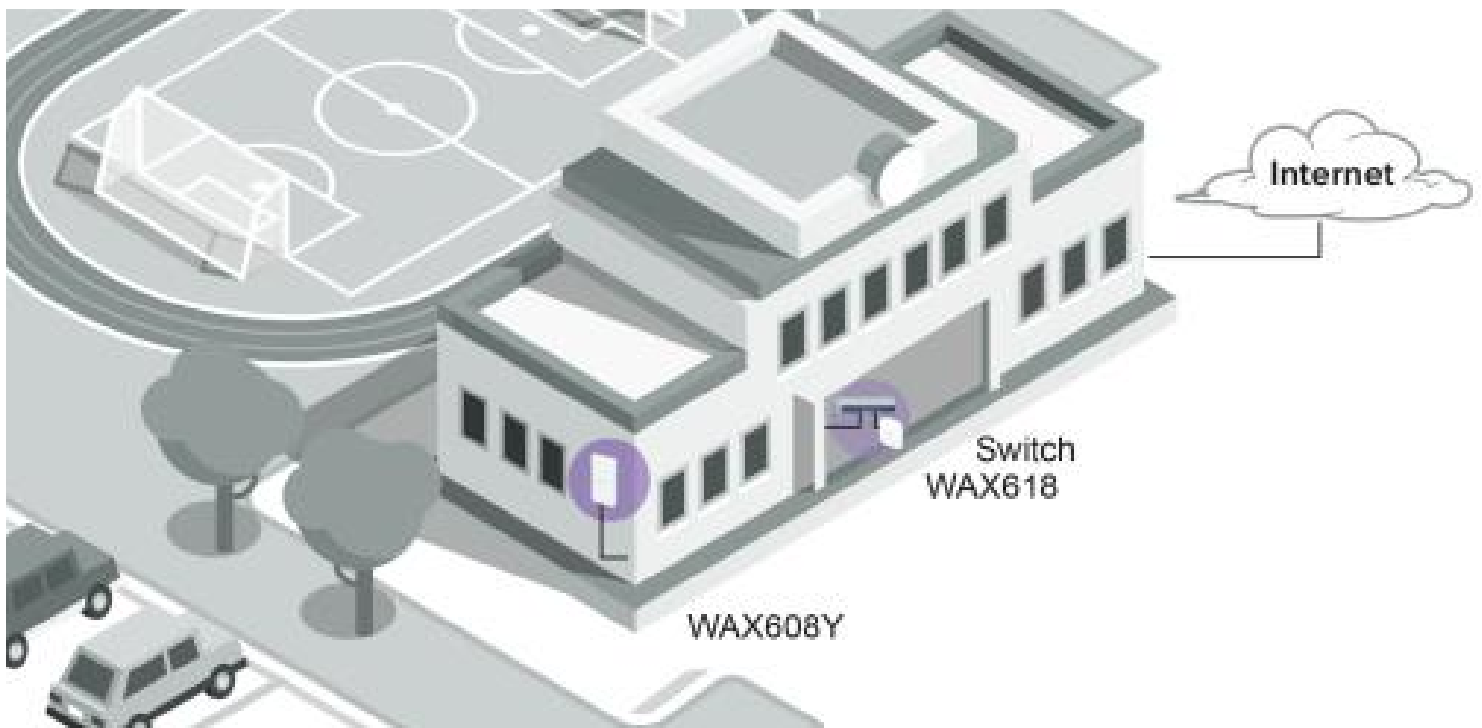


Example Application

WAX608Y Deployment Scenario



WAX608Y Deployment Scenario



Product Comparison

Product Comparison	WAX608Y	WAX618	WAX628	WAX638E
WiFi Standards	5.0GHz: 802.11a/n/ac/ax 2.4GHz: 802.11b/g/n/ax	5GHz: 802.11a/n/ac/ax 2.4GHz: 802.11b/g/n/ax	5.0GHz: 802.11a/n/ac/ax 2.4GHz: 802.11b/g/n/ax	6.0GHz: 802.11ax 5.0GHz: 802.11a/n/ac/ax 2.4GHz: 802.11b/g/n/ax
Wireless Mode (Transmit x Receive)	2x2 in 5.0GHz 2x2 in 2.4GHz	2x2 in 5GHz 2x2 in 2.4GHz	4x4 in 5.0GHz 2x2 in 2.4GHz	2x2 in 6.0GHz 4x4 in 5.0GHz 2x2 in 2.4GHz
Channelization		5GHz: 20/40/80/160MHz 2.4GHz: 20/40MHz	5GHz: 20/40/80/160MHz 2.4GHz: 20/40MHz	5GHz: 20/40/80/160MHz 6GHz: 20/40/80/160MHz 2.4GHz: 20/40MHz
OFDM/OFDMA	OFDM and OFDMA	OFDM and OFDMA	OFDM and OFDMA	OFDM and OFDMA
BSS Coloring	Yes	Yes	Yes	Yes
Multi-User MIMO	Bidir and MU-MIMO	Bidir MU-MIMO	Bi-dir MU-MIMO	Bi-dir MU-MIMO
Target Wake Time (TWT)	Yes	Yes	Yes	Yes
Maximum Theoretical Throughput	AX1800 1.8Gbps	AX3000 3Gbps	AX5400 5.4Gbps	AXE7800 7.8Gbps
Maximum Theoretical Throughput per Band	5.0GHz: 1200Mbps 2.4GHz: 600Mbps	5GHz: 2400Mbps 2.4GHz: 600Mbps	5.0GHz: 4800Mbps 2.4GHz: 600Mbps	6.0GHz: 2400Mbps 5.0GHz: 4800Mbps 2.4GHz: 600Mbps
Antenna Gain	Internal 3.6/4.4dBi (2.4GHz/5GHz)	Internal 2.9/2.8dBi (2.4GHz/5GHz)	Internal 2.5/3.0 dBi (2.4GHz/5GHz)	Internal 4.4/6.3/3.1 dBi (2.4GHz/5GHz/6GHz)
Power over Ethernet (PoE)	802.3at/af	802.3at /af	802.3at/af	802.3bt/at
Coverage		2,500 sq.ft. (230m ²)	3,000 sq.ft. (275m ²)	3,000 sq.ft. (275m ²)
PoE Power Consumption	16.1W	21.2W	21.2W	27.64W
Centralized Management	Insight App	Insight App	Insight App	Insight App
Secure Socket Layer (SSL)	Yes	Yes	Yes	Yes
Router Mode	No	No		
Wireless Distribution System (WDS)				
Repeater	Yes	Yes	Yes	Yes
Bridge Point-to-point/Multi-point	Yes	Yes	Yes	Yes
Simultaneous Bridge and Wireless Client Association	Yes	Yes	Yes	Yes
Security				
WiFi Protected Access (WPA/WPA2/WPA3), 802.11i	Yes	Yes	Yes	Yes
MAC address filtering with access control	Yes	Yes	Yes	Yes
802.1x RADIUS support with EAP TLS, TTLS, PEAP	Yes	Yes	Yes	Yes
Neighbor AP detection	Yes	Yes	Yes	Yes
Block SSID Broadcast	Yes	Yes	Yes	Yes
VLAN Support	Yes	Yes	Yes	Yes
Guest Network/Captive Portal	Yes	Yes	Yes	Yes
Bandwidth management	Yes	Yes	Yes	Yes
Link Layer Discovery Protocol	Yes	Yes	Yes	Yes
Bandsteering	Yes	Yes	Yes	Yes
Instant WiFi Mesh				
Wireless backhaul to form Mesh Network	Yes	Yes	Yes	Yes

Technical Specifications

Standards	WAX608Y	WAX618	WAX628	WAX638E
IEEE 802.11ax WiFi 6 standard	Yes	Yes	Yes	Yes
WMM Wireless Multimedia Prioritization	Yes	Yes	Yes	Yes
WDS Wireless Distribution System	Yes	Yes	Yes	Yes
Power over Ethernet (PoE) IEEE 802.3af	Yes, approximately 60% of full throughput performance	Yes, approximately 60% of full throughput performance	Yes, approximately 60% of full throughput performance	No
Power over Ethernet (PoE) IEEE 802.3at	Yes	Yes	Yes	Yes, max throughput will reduce by 50% on 2.4GHz
Power over Ethernet (PoE) IEEE 802.3bt			Yes	Yes
OFDM/OFDMA	Yes	Yes	Yes	Yes
Physical Specifications				
Dimensions W x D x H	181 x 305 x 34 mm (7.12 x 12.0 x 1.33 in)	9.5 x 9.5 x 1.58 in (241.5 x 241.5 x 40.2 mm)	9.49 x 9.43 x 2.02 in (241.15 x 239.6 x 51.38 mm)	266.6 x 268.3 x 55.5 mm (10.49 x 10.56 x 2.18 in)
Weight	940 g (2.07 lb)	727 g (1.6 lb)	819 g (1.80 lb)	1050 g (2.31 lb)
Environmental Specifications				
Operating temperature	-10° to 50°C (10° to 122°F) (no solar radiation)	0° to 40°C (32° to 104°F)	0° to 40°C (32° to 104°F)	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)		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) One 100/1000GBASE-T Gigabit Ethernet (RJ-45) port	One 100/1000/2.5G (IEEE 802.3at or 802.3bt doesn't support IEEE 802.3af) One 100/1000M Ethernet
Power adapter (not included)	Powered by PoE Only	12V DC, 2.5A; plug is localized to country of sale	12V DC, 2.5A; plug is localized to country of sale	12V DC, 3.5A; plug is localized to country of sale
LED	Four (4): Power and Cloud connection; LAN speed; 2.4GHz status; 5.0GHz status		Five (5): Power and Cloud connection; Two (2) LAN ports; 2.4GHz status; 5.0GHz status	One (1): Power and Cloud connection; Two (2): LAN ports; Three (3): Radio (2.4GHz, 5GHz, 6GHz)
Security				
WiFi Protected Access® (WPA, WPA2, WPA3)	Yes	Yes	Yes	Yes
WPA2 and WPA3 Enterprise	Yes	Yes	Yes	Yes
Wireless access control to identify authorized wireless network devices	Yes	Yes	Yes	Yes
MAC address authentication	Yes	Yes	Yes	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 networkk			

Technical Specifications

Package Contents	WAX608Y	WAX618	WAX628	WAX638E
	WAX608Y Insight managed outdoor wireless access point Pole mount kit Wall/ceiling mount kit Installation guide	WAX618 Insight managed wireless access point Wall/ceiling mount kit Installation guide	WAX628 Insight managed wireless access point Wall/ceiling mount kit Installation guide	WAX638E Insight managed wireless access point Wall/ceiling mount kit Installation guide
Warranty and Support				
Hardware Limited Warranty	5 years	5 years	5 years	5 years
Next-Business-Day (NBD) Replacement	5 years	5 years	5 years	5 years
Technical Support (online, phone)	90 days free from date of purchase*	90 days free from date of purchase*	90 days free from date of purchase*	90 days free from date of purchase*
ProSupport Included	4 years	4 years	4 years	4 years
Additional ProSupport OnCall 24x7 Service Packs**	PMB0311-10000S, 1 yr PMB0331-10000S, 3 yr PMB0351-10000S, 5 yr	PMB0312-10000S, 1 yr PMB0332-10000S, 3 yr PMB0352-10000S, 5 yr	PMB0311-10000S, 1 yr PMB0331-10000S, 3 yr PMB0351-10000S, 5 yr	PMB0312-10000S, 1 yr PMB0332-10000S, 3 yr PMB0352-10000S, 5 yr
Ordering Information				
WAX608Y-111APS	Asia			
WAX608Y-111EUS	Europe			
WAX608Y-111NAS	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. The WAX608Y, WAX618, WAX628, and WAX638E models come with 4 years of ProSupport included. Additional ProSupport service packs can be added after the 4 years conclude.

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