

NETGEAR® BUSINESS



Next Gen 6GHz Tri-Band WiFi 6E Access Point for the Small and Medium Size Businesses

The WAX630E expands the NETGEAR Insight Cloud Managed Access Point products to offer a next generation triband access point that includes a new and ultra wide, ultra fast WiFi frequency band. The WAX630E is a 2.4GHz, 5GHz and 6GHz tri-band design delivering up-to 7.8Gbps total WiFi throughput, supported by a 2.5Gbps Power-over-Ethernet and a 1Gbps Ethernet ports, and industry leader of technology innovation and performance in its product class.

The WAX630E enables industry's next generation WiFi standard, WiFi 6 Release 2, or WiFi 6E, operating on 6GHz band, delivering unprecedented data throughput speed and available channels for WiFi connectivity with smartphones, IoTs, and computers.

The new 6GHz band provides up to 3.5 times more channels for WiFi communication, enabling the WAX630E to deliver faster speed, handling more client devices in a significantly less congested environment.

WiFi 6 Release 1 operates only in 2.4GHz and 5GHz bands, with 80MHz channelization in the 5GHz band. By contrast, WiFi 6 Release 2, or WiFi 6E, operates in 2.4GHz, 5GHz, and 6GHz bands, with 160MHz channelization in the 5GHz and 6GHz bands. By enabling the 160MHz channels, the WAX630E delivers 100% more speed in the 5GHz band than WiFi 6 Release 1 access points.

The WAX630E 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, WAX630E 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 1-Year Insight subscription included with WAX630E.

With the updated WiFi 6 (802.11ax) and WiFi 6E (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 WAX630E, 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 WAX630E is compatible with other Pro WiFi Insight managed access points to form a scalable wireless network.





Business features for higher speed, greater coverage and higher density tri-band WiFi

- Business class WiFi based on next generation 802.11ax WiFi 6 technology on 6.0GHz, 5.0GHz and 2.4GHz bands. (Backward compatible to 802.11b/g/n/a/ac)
- Support 160MHz channelization in both 5GHz and 6GHz to deliver 200% throughput compared to previous generation
- Tri-band, 2.4GHz, 5.0GHz, 6.0GHz, 8 streams of data for an aggregate throughput of up to 7.8Gbps
- Instant WiFi Mesh forming wireless backhaul with other Pro WiFi Insight managed access points to form a WiFi mesh network
- 100% more throughput in 4-stream 5.0GHz band compared to previous generation
- · 4 times more client device supported

- Enterprise security and Enhanced Open security, such as WPA3, WPA2 Enterprise, WPA3 Enterprise, 8x SSID, Dynamic VLAN 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 <u>MS510TXUP</u> and other multigig Ethernet switches

- One additional 1GbE port for network redundancy or link aggregation to enhance reliability or throughput
- 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 802.3bt 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. Faster installation through NETGEAR Insight app or Cloud portal. No additional hardware needed.
- Market leading 5-year warranty with 24x7 chat support for peace of mind



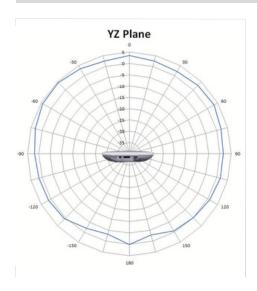


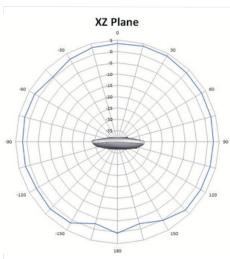


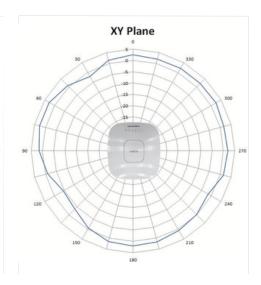


Radio Patterns for WAX630E

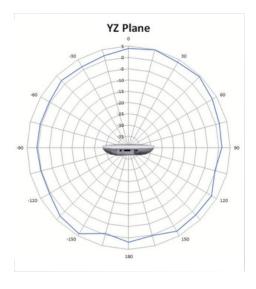
Radio Pattern for 2.4GHz

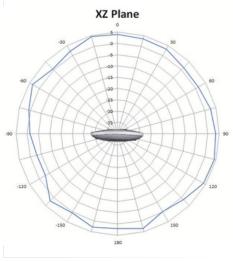


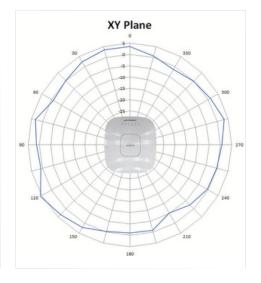




Radio Pattern for 5GHz



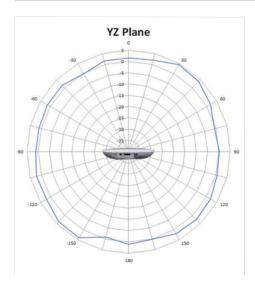


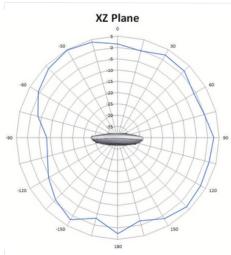


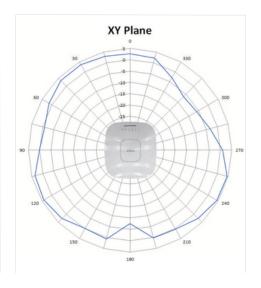


Radio Patterns for WAX630E

Radio Pattern for 6GHz

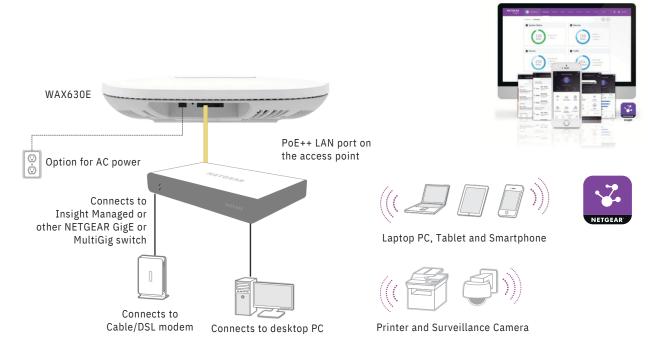






Example Application

WAX630E Deployment Scenario





Product Comparison

Product Comparison	WAX610	WAX620	WAX630	WAX630E
WiFi Standards	5.0GHz: 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	5.0GHz: 802.11a/n/ac/ax 2.4GHz: 802.11b/g/n/ax	6.0GHz: 802.11ax 5.0GHz: 802.11a/n/ac/a 2.4GHz: 802.11b/g/n/a
Wireless Mode (Transmit x Receive)	2x2 in 5.0GHz 2x2 in 2.4GHz	4x4 in 5.0GHz 4x4 in 2.4GHz	4x4 in 5.0GHz H 4x4 in 5.0GHz L 4x4 in 2.4GHz	2x2 in 6.0GHz 4x4 in 5.0GHz 2x2 in 2.4GHz
Channelization	5GHz: 20/40/80MHz	5GHz: 20/40/80MHz	5GHz H: 20/40/80MHz 5GHz L: 20/40/80MHz	5GHz: 20/40/80/160MH 6GHz: 20/40/80/160MH
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 and MU-MIMO	Bidir and MU-MIMO	Bidir and MU-MIMO
Target Wake Time (TWT)	Yes	Yes	Yes	Yes
Maximum Theoretical Throughput	AX1800 1.8Gbps	AX3600 3.6Gbps	AX6000 6Gbps	AXE7800 7.8Gbps
Maximum Theoretical Throughput per Band	5.0GHz: 1200Mbps 2.4GHz: 600Mbps	5.0GHz: 2400Mbps 2.4GHz: 1200Mbps	5.0GHz H: 2400Mbps 5.0GHz L: 2400Mbps 2.4GHz: 1200Mbps	6.0GHz: 2400Mbps 5.0GHz: 4800Mbps 2.4GHz: 600Mbps
Antenna Gain	Internal 3.8/4.5dBi (2.4GHz/5GHz)	Internal 3.1/4.3 dBi (2.4GHz/5GHz)	Internal 2.86/4.41/4.98 dBi (2.4GHz/5GHz L/5GHz H)	Internal 4.4/6.3/3.1 dBi (2.4GHz/5GHz/6GHz)
Power over Ethernet (PoE)	802.3at/af	802.3at/af	802.3bt/at	802.3bt/at
PoE Power Consumption	15.3W	25.5W	30.1W	27.64W
Centralized Management	Insight App	Insight App	Insight App	Insight App
Secure Socket Layer (SSL)	Yes	Yes	Yes	Yes
Wireless Distribution System (WDS)				
Repeater	Ye	Ye	Ye	Ye
Bridge Point-to-point/Multi-point	S	S	S	S
Simultaneous Bridge and Wireless Client Association	¥€s	Ϋ́€s	¥€s	¥€s
Security	S	S	S	S
WiFi Protected Access (WPA/WPA2 WPA3), 802.11i	Yes	Yes	Ye	Yes
MAC address filtering with access control	Yes	Yes	S	Yes
802.1x RADIUS support with EAP TLS, TTLS, PEAP	Yes	Yes	Ye	Yes
Neighbor AP detection	Yes	Yes	S	Yes
Block SSID Broadcast	Yes	Yes	Ye	Yes
VLAN Support	Yes	Yes	S	Yes
Guest Network/Captive Portal	Yes	Yes		Yes
Bandwidth management	Yes	Yes	Ye	Yes
Link Layer Discovery Protocol	Yes	Yes	S	Yes
Bandsteering	Yes	Yes	Ye	Yes
Instant WiFi Mesh Wireless backhaul to form Mesh Network			s	
Wiletess Dackilaut to TOFM Mesh Network	Yes	Yes	Ye Yes	Yes
			S	PAGE 5 of 7



Technical Specifications

Wireless Distribution System

(WDS)

Power over Ethernet (PoE) IEEE 802.3at Power over Ethernet (PoE) IEEE 802.3bt OFDM/OFDMA Physical Specifications Dimensions W x D x H Weight 160.9 x 160.9 x 33.25 mm 2 (6.33 x 6.33 x 1.30 in) 412 g (0.90 lb) Environmental Specifications Operating temperature O° to 40°C (32° to 104°F) Physical Interfaces Interface One 100/1000/2.5GBASE-T with Auto Uplink™ (Auto IEEE 802.3af, 802.3bt or 80	Yes Yes Yes Yes 205.7 x 205.7 x 34.3 mm (8.09 x 8.09 x 1.35 in) 783 g (1.72 lb)	Yes, max throughput will reduce by 50% on 2.4GHz and 5GHz Low Yes Yes	Yes Yes Yes No Yes, max throughput will reduce 50% on 2.4GHz Yes Yes Yes 10.49 x 10.56 x 2.18 in) 1050 g (2.31 lb)
Prioritization WDS Wireless Distribution System Power over Ethernet (PoE) IEEE 802.3af Power over Ethernet (PoE) IEEE 802.3at Power over Ethernet (PoE) IEEE 802.3bt Popmar over Ethernet (PoE) IEEE 802.3bt OFDM/OFDMA Physical Specifications Dimensions W x D x H Weight 160.9 x 160.9 x 33.25 mm 2 (6.33 x 6.33 x 1.30 in) 412 g (0.90 lb) Environmental Specifications Operating temperature O° to 40°C (32° to 104°F) Physical Interfaces Interface One 100/1000/2.5GBASE-T with Auto Uplink™ (Auto IEEE 802.3af, 802.3bt or 80	Yes ull throughput performance Yes Yes Yes Yes 205.7 x 205.7 x 34.3 mm (8.09 x 8.09 x 1.35 in) 783 g (1.72 lb)	Yes Ce No Yes, max throughput will reduce by 50% on 2.4GHz and 5GHz Low Yes Yes Yes 266.6 x 268.3 x 55.5 mm (10.49 x 10.56 x 2.18 in)	Yes No Yes, max throughput will reduce 50% on 2.4GHz Yes Yes Yes 266.6 × 268.3 × 55.5 mm (10.49 × 10.56 × 2.18 in)
Power over Ethernet (PoE) IEEE 802.3af Yes, approximately 60% of for Power over Ethernet (PoE) IEEE 802.3at Yes Power over Ethernet (PoE) IEEE 802.3bt Yes OFDM/OFDMA Physical Specifications Dimensions W x D x H Weight 160.9 x 160.9 x 33.25 mm 2 (6.33 x 6.33 x 1.30 in) 412 g (0.90 lb) Environmental Specifications Operating temperature O° to 40°C (32° to 104°F) Physical Interfaces Interface One 100/1000/2.5GBASE-T with Auto Uplink™ (Auto IEEE 802.3af, 802.3bt or 80	Yes Yes Yes Yes 205.7 x 205.7 x 34.3 mm (8.09 x 8.09 x 1.35 in) 783 g (1.72 lb)	ce No Yes, max throughput will reduce by 50% on 2.4GHz and 5GHz Low Yes Yes 266.6 x 268.3 x 55.5 mm (10.49 x 10.56 x 2.18 in)	No Yes, max throughput will reduce 50% on 2.4GHz Yes Yes 266.6 × 268.3 × 55.5 mm (10.49 × 10.56 × 2.18 in)
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802.3bt Yes OFDM/OFDMA Physical Specifications Dimensions W x D x H Weight 160.9 x 160.9 x 33.25 mm 2 (6.33 x 6.33 x 1.30 in) Weight 412 g (0.90 lb) Environmental Specifications Operating temperature 0° to 40°C (32° to 104°F) Physical Interfaces Interface One 100/1000/2.5GBASE-T with Auto Uplink™ (Auto IEEE 802.3af, 802.3bt or 80	Yes 205.7 x 205.7 x 34.3 mm (8.09 x 8.09 x 1.35 in) 783 g (1.72 lb)	Yes 266.6 x 268.3 x 55.5 mm (10.49 x 10.56 x 2.18 in)	Yes 266.6 x 268.3 x 55.5 mm (10.49 x 10.56 x 2.18 in)
Physical Specifications Dimensions W x D x H 160.9 x 160.9 x 33.25 mm 2 (6.33 x 6.33 x 1.30 in) Weight 412 g (0.90 lb) Environmental Specifications Operating temperature 0° to 40°C (32° to 104°F) Physical Interfaces Interface One 100/1000/2.5GBASE-T with Auto Uplink™ (Auto IEEE 802.3af, 802.3bt or 80	205.7 x 205.7 x 34.3 mm (8.09 x 8.09 x 1.35 in) 783 g (1.72 lb)	266.6 x 268.3 x 55.5 mm (10.49 x 10.56 x 2.18 in)	266.6 x 268.3 x 55.5 mm (10.49 x 10.56 x 2.18 in)
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Environmental Specifications Operating temperature 0° to 40°C (32° to 104°F) Physical Interfaces One 100/1000/2.5GBASE-T with Auto Uplink™ (Auto IEEE 802.3af, 802.3bt or 80		956 g (2.10 lb)	1050 g (2.31 lb)
Operating temperature 0° to 40°C (32° to 104°F) 0 Physical Interfaces One 100/1000/2.5GBASE-T with Auto Uplink™ (Auto IEEE 802.3af, 802.3bt or 80	° to 40°C (32° to 104°F)		
Physical Interfaces One 100/1000/2.5GBASE-T with Auto Uplink™ (Auto IEEE 802.3af, 802.3bt or 80	1° to 40°C (32° to 104°F)		
One 100/1000/2.5GBASE-T Interface with Auto Uplink™ (Auto IEEE 802.3af, 802.3bt or 80		0° to 40°C (32° to 104°F)	0° to 40°C (32° to 104°F)
Interface with Auto Uplink™ (Auto IEEE 802.3af, 802.3bt or 80			
Power adapter (not included) 12V DC, 2.5A; plug is loc	MDI-X) supporting		3at or 802.3bt doesn't support I D/1000M Ethernet
	alized to country of sale	12V DC, 3.5A; plug is lo	ocalized to country of sale
One (1): Power and (1): LAN Two (2): Radio (2)	N port;	One (1): Power and cloud connection; Two (2): LAN ports; Three (3): Radio (2.4GHz, 5GHz L, 5GHz H)	One (1): Power and cloud connection; Two (2): LAN ports; Three (3)
Security		Radio (2.4GHz, SGHz L, SGHz H)	Radio (2.4GHz, 5GHz, 6GHz)
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		Yes	
NETGEAR Insight App Advanced Wireless	App management fo	or setup, monitoring and manageme	nt
	Bridge mod	de: 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

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Technical Specifications

Package Contents	WAX630E
	WAX630E Insight managed wireless access point Wall/ceiling mount kit Installation guide
Warranty and Support	
Hardware Limited Warranty	5 years 5 years
Next-Business-Day (NBD) Replacement	90 days free from date of purchase*
Technical support (online, phone)	PMB0312-10000S, 1 year
ProSUPPORT OnCall 24x7 Service Packs**	PMB0332-10000S, 3 years PMB0352-10000S, 5 years
Ordering Information	
WAX630E-100EUS	Europe and Asia Pacific
WAX630E-100NAS	US
WAX630EP-100NAS	US (Power adapter included)

