



# Wireless LAN

Quick Sales Guide

# WLAN Portfolio Lineup

Work in both On-premise management and Nebula cloud management

## Features/Scalability

 NWA90AX PRO	 NWA220AX-6E	 NWA1123AC-PRO
 NWA90AX		
 NWA55AXE	 NWA210AX	 NWA1123ACv3
 NWA50AX PRO	 NWA110AX	
 NWA50AX		
 Simplicity	 Flexibility	

Business Scale

Small



nebula



WBE660S



WAX630S



WAC500



WAX640S-6E



WAX610D



WAC500H



WAX620D-6E



WAX510D



WAC5302D-Sv2



WAX650S



WAX655E







WAX300H



Large

# Wireless LAN Access Point Quick Finder

Segment	Series	Management	Model
Medium-Sized Business to Enterprise	Ultimate	<ul style="list-style-type: none"><li>• Controller managed</li><li>• Cloud managed</li><li>• Standalone</li></ul>	WBE660S
			
			WAX640S-6E
			
			WAX620D-6E
			
			WAX650S
			

# Key Features

## Main Design

- 802.11be (WiFi 7) Triple-Radio Unified Pro Access Point
- 6 GHz: 4x4; 5 GHz: 4x4; 2.4 GHz: 4x4
- Smart antenna technology
- Interference Immunity
- 10GbE uplink

## Key Features

- Tri-band coverage, 2.4 GHz, 5 GHz, and 6 GHz (4x4 + 4x4 + 4x4) 802.11be AP to deliver maximum data rate of 22 Gbps
- The 1x 10GB uplink port unlocks WiFi 7 speeds and facilitates multi-gigabit connectivity
- The smart antenna technology mitigates interference and boosts WiFi performance
- Advanced Cellular Coexistence minimizes interferences from 4G/5G cellular networks
- The advanced RF filter prevents interference between the 5 GHz and 6 GHz bands while guaranteeing performance in all channels
- Can be powered by PoE bt (PoE++) or USB Type C charger (45 W) to offer flexible powering options
- NebulaFlex Pro offers the full flexibility for users to easily switch between Nebula cloud-managed, controller-managed, and standalone modes

- 802.11axe (WiFi 6E) Tri-Radio Unified Pro Access Point
- 6 GHz: 4x4; 5 GHz: 2x2; 2.4 GHz: 2x2
- Smart antenna technology
- Interference Immunity
- 2.5GbE uplink

- Tri-band coverage, 2.4 GHz, 5 GHz, and 6 GHz (2x2 + 2x2 + 4x4) 802.11axe AP to deliver maximum data rate of 7.8 Gbps
- Zyxel 6E Boost, using the high-gain 4 streams in 6 GHz, helps extend range and maximize performance of the new band
- The smart antenna technology mitigates interference and boosts WiFi performance
- The advanced RF filter prevents interference between the 5 GHz and 6 GHz bands while guaranteeing performance in all channels
- NebulaFlex Pro offers the full flexibility for users to easily switch between Nebula cloud-managed, controller-managed, and standalone modes

- 802.11axe (WiFi 6E) Dual-Radio Unified Pro Access Point
- 6 GHz/5 GHz: 4x4 (Selectable); 2.4 GHz: 2x2
- Dual-optimized antenna
- Interference Immunity
- 2.5GbE uplink

- 802.11axe AP (4x4 in 6 GHz/5 GHz selectable, 2x2 in 2.4 GHz) to deliver maximum data rate of 5.4 Gbps
- The BandFlex radio design can support either 5 GHz or 6 GHz by configuration, to fit into your 5 GHz coverage as well as futureproofing the use of 6 GHz
- Zyxel 6E Boost, using the high-gain 4 streams in 6 GHz, helps extend range and maximize performance of the new band
- Dual-optimized antenna provides the optimum radio patterns for both wall and ceiling mounting to fit into your installation
- NebulaFlex Pro offers the full flexibility for users to easily switch between Nebula cloud-managed, controller-managed, and standalone modes

- 802.11ax (WiFi 6) Dual-Radio Unified Pro Access Point
- 5 GHz: 4x4; 2.4 GHz: 4x4
- Smart antenna technology
- 5GbE uplink

- Dual-radio (dual 4x4 MIMO) 802.11ax AP provides maximum data rate of 3550 Mbps, and is equipped with the 3rd dedicated monitoring radio and BLE
- OFDMA is arguably the best innovation of WiFi, delivering the highest performance and low latency for all scenarios
- Smart antenna is the proven technology that can mitigate interference and boost WiFi 6 performance
- Advanced Cellular Coexistence minimizes interferences from 4G/5G cellular networks
- NebulaFlex Pro allows users to switch among standalone, on-premises controller managed or intuitive Nebula cloud managed modes as needed

Segment	Series	Management	Model
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**Medium-Sized  
Business to  
Enterprise**

Ultimate

- Controller managed
- Cloud managed
- Standalone

WAX630S




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WAX610D




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WAX510D




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WAX655E




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WAC5302D-Sv2



## Main Design

## Key Features

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| <ul style="list-style-type: none"><li>• 802.11ax (WiFi 6) Dual-Radio Unified Pro Access Point</li><li>• 5 GHz: 4x4; 2.4 GHz: 2x2</li><li>• Smart antenna technology</li><li>• 2.5GbE uplink</li></ul> | <ul style="list-style-type: none"><li>• Dual-radio (dual 4x4 + 2x2 MIMO) 802.11ax AP provides maximum data rate of 2975 Mbps</li><li>• Smart antenna is the proven technology that can mitigate interference and boost WiFi 6 performance</li><li>• Coupled the capacity with Zyxel XS1930 Series switches, the 2.5GbE uplink delivers uncompromising multigigabit speed without the need of re-cabling</li><li>• NebulaFlex Pro allows users to switch among standalone, on-premise controller managed or intuitive Nebula cloud managed modes as needed</li><li>• Advanced Cellular Coexistence minimizes interferences from 4G/5G cellular networks</li></ul> |
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- |   |  |
|---|--|
| <ul style="list-style-type: none"><li>• 802.11ax (WiFi 6) Dual-Radio Unified Access Point</li><li>• 5 GHz: 4x4; 2.4 GHz: 2x2</li><li>• Dual-optimized antenna</li><li>• 2.5GbE uplink</li></ul> | <ul style="list-style-type: none"><li>• Dual-radio (dual 4x4 + 2x2 MIMO) 802.11ax AP provides maximum data rate of 2975 Mbps</li><li>• Coupled the capacity with Zyxel XS1930 Series switches, the 2.5GbE uplink delivers uncompromising multi-gigabit speed without the need of re-cabling</li><li>• Dual-optimized antenna provides wall-/ceiling-mounting modes to fit in your deployment</li><li>• Advanced Cellular Coexistence minimizes interferences from 4G/5G cellular networks</li><li>• NebulaFlex Pro allows users to switch among standalone, on-premises controller managed or intuitive Nebula cloud managed modes as needed</li></ul> |
|---|--|
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- |   |   |
|---|---|
| <ul style="list-style-type: none"><li>• 802.11ax (WiFi 6) Dual-Radio Unified Access Point</li><li>• 5 GHz: 2x2; 2.4 GHz: 2x2</li><li>• Dual-optimized antenna</li></ul> | <ul style="list-style-type: none"><li>• Dual-radio (dual 2x2 MIMO) 802.11ax AP provides maximum data rate of 1775 Mbps</li><li>• OFDMA is arguably the best innovation of WiFi, delivering the highest performance and low latency for all scenarios</li><li>• Dual-optimized antenna provides wall-/ceiling-mounting modes to fit in your deployment</li><li>• Advanced Cellular Coexistence minimizes interferences from 4G/5G cellular networks</li><li>• NebulaFlex Pro allows users to switch among standalone, on-premises controller managed or intuitive Nebula cloud managed modes as needed</li></ul> |
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|--|---|
| <ul style="list-style-type: none"><li>• 802.11ax (WiFi 6) dual-radio concurrent 2.4 and 5 GHz support</li><li>• Outdoor coverage</li><li>• 5 GHz: 4x4; 2.4 GHz: 2x2</li><li>• 6 external antennas (N-type connector; sold separately)</li><li>• 2.5 GbE Uplink with PoE+</li><li>• IP67 weather protection</li></ul> | <ul style="list-style-type: none"><li>• 802.11ax dual radio outdoor AP delivers blazing-fast speeds up to 5.4 Gbps</li><li>• Designed for harsh outdoor environments with up to IP67 industrial-grade weather proofing</li><li>• Obtain multi-gigabit performance with a 2.5 GbE PoE+ port to support the demand for better outdoor WiFi</li><li>• Smart Mesh automatically forms dynamic wireless links to bridge networks for inter-building settings and mitigates complex, inconvenient cabling WiFi deployments</li><li>• NebulaFlex Pro offers the full flexibility for users to easily switch between Nebula cloud-managed, controller-managed, and standalone modes</li></ul> |
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| <ul style="list-style-type: none"><li>• 802.11ac dual radio concurrent 2.4 and 5 GHz support</li><li>• Smart antenna technology</li></ul> | <ul style="list-style-type: none"><li>• Clever wired and wireless network solution for individual hotel guest rooms</li><li>• The world's first wall-plate AP design that can be mounted on wall plates or directly in any corner</li><li>• Enterprise-class 2x2 802.11ac AP with smart antenna supporting combined data rates of up to 1.2 Gbps</li><li>• Three downlink Gigabit Ethernet ports, including one with PoE to power for VoIP phones or other devices</li></ul> |
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Segment	Series	Management	Model
Medium-Sized Business to Enterprise	Ultimate	<ul style="list-style-type: none"> <li>• Controller managed</li> <li>• Cloud managed</li> <li>• Standalone</li> </ul>	WAC500
			
			WAC500H
			
			WAX300H
			
			NWA220AX-6E
Small to Medium-Sized Business	Flexibility	<ul style="list-style-type: none"> <li>• Cloud managed</li> <li>• Standalone</li> </ul>	NWA210AX
			
			
			NWA210AX



## Main Design

- 802.11ac Wave 2, MU-MIMO
- 5 GHz: 2x2; 2.4 GHz: 2x2
- 1GbE 802.3af uplink
- Interference Immunity

## Key Features

- Enterprise class 2x2 802.11ac Wave 2 AP supports combined data rates of up to 1200 Mbps
- Optimized RF performance for ceiling mounting deployment
- The latest WPA3 security protocol provides safer connectivity
- Advanced Cellular Coexistence minimizes interferences from 4G/5G cellular networks
- NebulaFlex Pro allows users to switch among standalone, on-premises controller managed or intuitive Nebula cloud managed modes as needed

- 802.11ac Wave 2, MU-MIMO
- 5 GHz: 2x2; 2.4 GHz: 2x2
- 1GbE 802.3at/af uplink
- Interference Immunity
- Wall-mounted and desktop-mounted options

- Enterprise class 2x2 802.11ac Wave 2 AP supports combined data rates of up to 1200 Mbps
- Two downlink Gigabit Ethernet ports, including one with PoE to power for VoIP phones or other devices
- Clever wired and wireless network solution for individual hotel guest rooms
- Versatile installation options allow the APs to be converted to desktop-mount by using an optional stand to better suit the work-from-home scenarios
- Advanced Cellular Coexistence minimizes interferences from 4G/5G cellular networks
- NebulaFlex Pro allows users to switch among standalone, on-premises controller managed or intuitive Nebula cloud managed modes as needed

- 802.11ax (WiFi 6) Dual-Radio Wall-Plate Unified Access Point
- 160 MHz channels support
- 5 GHz: 2x2; 2.4 GHz: 2x2
- 1GbE 802.3at uplink port + 3x GbE LAN ports
- Wall-mounted and desktop-mounted options


- Clever wired and wireless network solution for individual hotel guest rooms
- AX3000 (2x2: 2 in 2.4 GHz and 5 GHz) PoE-powered access point provides maximum data rate of 3000 Mbps with 160 MHz channels support to enable seamless and faster connectivity
- 4 Gigabit Ethernet ports (1x 802.3at uplink port + 3x LAN ports) including one downlink PD port supporting 802.3at PoE power (5 W) for wired application
- The versatile wall-plate AP design that can be mounted on wall plates or directly in anywhere
- NebulaFlex Pro offers the full flexibility for users to easily switch between Nebula cloud-managed, controller-managed, and standalone modes

- 802.11ax (WiFi 6E) Dual-Radio PoE Access Point
- 6 GHz/5 GHz: 4x4 (Selectable); 2.4 GHz: 2x2
- 2.5GbE uplink
- Cellular network coexistence

- 802.11ax AP (4x4 in 6 GHz/5 GHz selectable, 2x2 in 2.4 GHz) to deliver maximum data rate of 5.4 Gbps
- The BandFlex radio design can support either 5 GHz or 6 GHz by configuration, to fit into your 5 GHz coverage as well as futureproofing the use of 6 GHz
- Zyxel 6E Boost, using the high-gain 4 streams in 6 GHz, helps extend range and maximize performance of the new band
- NebulaFlex allows users to switch between standalone or intuitive Nebula cloud managed modes as needed
- Advanced Cellular Coexistence minimizes interferences from 4G/5G cellular networks

- 802.11ax (WiFi 6) Dual-Radio PoE Access Point
- 5 GHz: 2x2; 2.4 GHz: 2x2
- 2.5GbE uplink
- Cellular network coexistence

- Dual-radio (dual 4x4 + 2x2) 802.11ax AP provides maximum data rate of 2975 Mbps
- OFDMA is arguably the best innovation of WiFi, delivering the highest performance and low latency for all scenarios
- Advanced Cellular Coexistence minimizes interferences from 4G/5G cellular networks
- The latest WPA3 security protocol provides safer connectivity
- NebulaFlex allows users to switch between standalone or intuitive Nebula cloud managed modes as needed

Segment	Series	Management	Model
Small to Medium-Sized Business	Flexibility	<ul style="list-style-type: none"> <li>• Cloud managed</li> <li>• Standalone</li> </ul>	NWA110AX
			
			NWA1123-AC PRO
			
			NWA1123-ACv3
			
Small Business, Simplicity Series	Simplicity	<ul style="list-style-type: none"> <li>• Cloud managed</li> <li>• Standalone</li> </ul>	NWA90AX PRO
			
			NWA90AX
			
			NWA55AXE
			
			NWA50AX PRO
			
			NWA50AX
			

## Main Design

## Key Features

- 802.11ax (WiFi 6) Dual-Radio PoE Access Point
- 5 GHz: 2x2; 2.4 GHz: 2x2
- Cellular network coexistence

- 802.11ac Dual radio 2.4 and 5 GHz support
- Dual-optimized antenna

- 802.11ac Wave 2, MU-MIMO
- 5 GHz: 2x2; 2.4 GHz: 2x2
- 1GbE 802.3af uplink
- Interference Immunity

- 802.11ax (WiFi 6) Dual-Radio PoE Access Point
- 160 MHz channels support
- 5 GHz: 3x3; 2.4 GHz: 2x2
- 2.5GbE uplink
- Captive portal and IEEE 802.1X authentication support
- Cellular network coexistence

- 802.11ax (WiFi 6) Dual-Radio PoE Access Point
- 5 GHz: 2x2; 2.4 GHz: 2x2
- Captive portal and IEEE 802.1X authentication support
- Cellular network coexistence

- 802.11ax (WiFi 6) Dual-Radio Outdoor PoE Access Point
- Outdoor coverage up to IP55 weatherproof rating

- 802.11ax (WiFi 6) Dual-Radio PoE Access Point
- 160 MHz channels support
- 5 GHz: 3x3; 2.4 GHz: 2x2
- 2.5GbE uplink
- Cellular network coexistence

- 802.11ax (WiFi 6) Dual-Radio PoE Access Point
- 5 GHz: 2x2; 2.4 GHz: 2x2
- Cellular network coexistence

- NebulaFlex delivers the flexibility to switch between standalone and License Free Nebula Cloud management
- Nebula Cloud management allows easy deployment, real-time configurations and access to manage network anytime
- OFDMA is arguably the best innovation of WiFi, delivering the highest performance and low latency for all scenarios (NWA110AX)
- Achieve reliable connectivity, support for more connected clients and better wireless coverage with the 802.11ac Wave 2 WiFi standard (NWA1123ACv3)
- Dual-optimized antenna for both wall/ceiling-mount installations (NWA1123-AC PRO)
- Robust build quality including solid-state capacitors and advanced heat dissipation design to ensure long life and operational reliability




- Dual-radio (3x3 +2x2) 802.11ax AP provides maximum data rate of 3000 Mbps (NWA90AX PRO)
- Dual-radio (dual 2x2) 802.11ax AP provides maximum data rate of 1775 Mbps (NWA90AX)
- The 2.5G uplink port enables multi-gig connectivity for small biz networks, making it easy to upgrade to high-speed networks without re-cabing (NWA90AX PRO)
- Captive portal and IEEE 802.1X authentication support provides enterprise-level security
- NebulaFlex allows users to switch between standalone or intuitive Nebula cloud managed modes as needed
- Advanced Cellular Coexistence minimizes interferences from 4G/5G cellular networks
- Smart Mesh automatically forms dynamic wireless links and mitigates complex, inconvenient cabling WiFi deployments

- Dual-radio (2x2) 802.11ax AP provides maximum data rate of 1775 Mbps
- Smart Mesh automatically forms dynamic wireless links to bridge networks for interbuilding settings and mitigates complex, inconvenient cabling WiFi deployments
- External, detachable antenna design allows users to attach other antennas that better suit different demands
- Designed for harsh outdoor environment with up to IP55 weatherproof rating
- Easy configuration setup with Zyxel's intuitive Nebula Cloud to get the network up and running in no time





- Dual-radio (3x3 +2x2) 802.11ax AP provides maximum data rate of 3000 Mbps (NWA50AX PRO)
- Dual-radio (dual 2x2) 802.11ax AP provides maximum data rate of 1775 Mbps (NWA50AX)
- The 2.5G uplink port enables multi-gig connectivity for small biz networks, making it easy to upgrade to high-speed networks without re-cabing (NWA50AX PRO)
- NebulaFlex allows users to switch between standalone or intuitive Nebula cloud managed modes as needed
- Advanced Cellular Coexistence minimizes interferences from 4G/5G cellular networks
- Smart Mesh automatically forms dynamic wireless links and mitigates complex, inconvenient cabling WiFi deployments

# Wireless LAN Feature Matrix

## Access Point

Model	POE AP 500 series		
	WiFi 6		
	NWA50AX	NWA50AX PRO	NWA55AXE
<b>Product name</b>	802.11ax (WiFi 6) Dual-Radio PoE Access Point	802.11ax (WiFi 6) Dual-Radio PoE Access Point	802.11ax (WiFi 6) Dual-Radio Outdoor PoE Access Point
			
<b>Main Design</b>			
<b>Wireless frequency</b>	2.4 and 5 GHz	2.4 and 5 GHz	2.4 and 5 GHz
<b>Radio</b>	2	2	2
<b>RF Specifications</b>			
<b>Number of antenna</b>	2 embedded dual band (2T2R MIMO)	3 embedded dual band (2.4G: 2T2R MIMO/5G: 3T3R MIMO)	2 external (2T2R MIMO)
<b>Antenna gain</b>	3 dBi @2.4 GHz 4 dBi @5 GHz	3 dBi @2.4 GHz 4 dBi @5 GHz	4 dBi @2.4 GHz 5 dBi @5 GHz
<b>LAN</b>			
<b>Number of 10/100/1000M LAN</b>	1	-	1
<b>Number of multigig LAN</b>	-	1	-
<b>PoE</b>	Yes	Yes	Yes
<b>PoE power draw</b>	16 W	20.5 W	16 W
<b>WLAN Features</b>			
<b>WLAN maximum net throughput</b>	Up to 900 Mbps	Up to 1200 Mbps	Up to 900 Mbps
<b>WDS</b>	Yes	Yes	Yes
<b>Smart Mesh (Nebula)</b>	Yes	Yes	Yes
<b>Fast roaming (802.11r, k, v)</b>	Yes*	Yes*	Yes*
<b>Wireless Security</b>			
<b>WPA/WPA2-PSK</b>	Yes	Yes	Yes
<b>WPA/WPA2-Enterprise (IEEE 802.1x)</b>	No	No	No
<b>WPA3</b>	Yes (Personal)	Yes (Personal)	Yes (Personal)
<b>DPPSK (WPA2 only)</b>	-	-	-
<b>EAP types</b>	No	No	No
<b>Number of SSID</b>	16	16	16
<b>Web authentication</b>	-	-	-
<b>MAC filtering</b>	Yes	Yes	Yes
<b>Layer-2 isolation</b>	Yes, multiple profile (V6.29)	Yes, multiple profile	Yes, multiple profile (V6.29)
<b>RADIUS authentication</b>	-	-	-
<b>Microsoft AD authentication</b>	-	-	-
<b>MAC authentication</b>	-	-	-
<b>Rogue AP detection</b>	Yes	Yes	Yes
<b>Firewall</b>	-	-	-
<b>Network</b>			
<b>IPv6 host</b>	Yes	Yes	Yes
<b>VLANs</b>	Yes	Yes	Yes
<b>DHCP client</b>	Yes	Yes	Yes
<b>NAT</b>	-	-	-
<b>Management</b>			
<b>Standalone AP mode</b>	Yes	Yes	Yes
<b>Managed AP mode</b>	-	-	-
<b>NebulaFlex</b>	Yes	Yes	Yes
<b>Web UI/CLI</b>	Yes	Yes	Yes
<b>SNMP</b>	-	-	-
<b>Others</b>			
<b>Power supply</b>	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 1.5 A	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 2 A	802.3at PoE injector
<b>MTBF (hrs)</b>	1,010,980	420,539	1,091,186
<b>Heat dissipation (BTU/hr)</b>	54.6	69.9	54.6
<b>Physical Specifications</b>			
<b>Item dimensions (WxDxH)(mm/in.)</b>	140 x 140 x 37.5/5.51 x 5.51 x 1.48	140 x 140 x 37.5/5.51 x 5.51 x 1.48	308 x 136.4 x 49.6/12.13 x 5.37 x 1.95
<b>Item weight (g/lb.)</b>	290/0.64	352/0.78	580/1.28
<b>Included accessories</b>	<ul style="list-style-type: none"> <li>• Power adapter</li> <li>• Mount plate</li> <li>• Mounting screws</li> </ul>	<ul style="list-style-type: none"> <li>• Power adapter</li> <li>• Mount plate</li> <li>• Mounting screws</li> </ul>	<ul style="list-style-type: none"> <li>• PoE injector</li> <li>• Mounting screws</li> </ul>




\*: Supported when work with Nebula Control Center

Model	POE AP 500 series		POE AP 1000 series	
	WiFi 6		WiFi 5	
	NWA90AX	NWA90AX PRO	NWA1123ACv3	NWA1123-AC PRO
<b>Product name</b>	802.11ax (WiFi 6) Dual-Radio PoE Access Point	802.11ax (WiFi 6) Dual-Radio PoE Access Point	802.11ac Wave 2 Dual-Radio Ceiling Mount PoE Access Point	802.11ac Dual-Radio Dual Mount PoE Access Point
				
<b>Main Design</b>				
<b>Wireless frequency</b>	2.4 and 5 GHz	2.4 and 5 GHz	2.4 and 5 GHz	2.4 and 5 GHz
<b>Radio</b>	2	2	2	2
<b>RF Specifications</b>				
<b>Number of antenna</b>	2 embedded dual band (2T2R MIMO)	3 embedded dual band (2.4G: 2T2R MIMO/ 5G: 3T3R MIMO)	2 embedded dual band (2T2R MIMO)	8 embedded dual-optimized antenna
<b>Antenna gain</b>	3 dBi @2.4 GHz 4 dBi @5 GHz	3 dBi @2.4 GHz 4 dBi @5 GHz	3 dBi @2.4 GHz 4 dBi @5 GHz	Ceiling: 3 dBi @2.4 GHz; 4 dBi @5 GHz Wall: 4 dBi @2.4 GHz; 5 dBi @5 GHz
<b>LAN</b>				
<b>Number of 10/100/1000M LAN</b>	1	-	1	2
<b>Number of multigig LAN</b>	-	1	-	-
<b>PoE</b>	Yes	Yes	Yes	Yes
<b>PoE power draw</b>	16 W	20.5W	11 W	12.48 W (802.3at PoE)* * Max. power draw is 12.48 W. In extreme cases, the inrush current is greater than 802.3af limit, thus 802.3at PoE is required.
<b>WLAN Features</b>				
<b>WLAN maximum net throughput</b>	Up to 900 Mbps	Up to 1200 Mbps	Up to 450 Mbps	Up to 900 Mbps
<b>WDS</b>	Yes	Yes	Yes	Yes
<b>Smart Mesh (Nebula)</b>	Yes	Yes	Yes	Yes
<b>Fast roaming (802.11r, k, v)</b>	Yes**	Yes**	Yes**	Yes**
<b>Wireless Security</b>				
<b>WPA/WPA2-PSK</b>	Yes	Yes	Yes	Yes
<b>WPA/WPA2-Enterprise (IEEE 802.1x)</b>	Yes	Yes	Yes	Yes
<b>WPA3</b>	Yes	Yes	Yes	-
<b>DPPSK (WPA2 only)</b>	-	-	Yes**	-
<b>EAP types</b>	TLS, TTLS, PEAP, FAST, AKA and SIM	TLS, TTLS, PEAP, FAST, AKA and SIM	TLS, TTLS, PEAP, FAST, AKA and SIM	EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST, EAP-AKA and EAP-SIM
<b>Number of SSID</b>	16	16	16	16
<b>Web authentication</b>	Yes**	Yes**	Yes**	Yes**
<b>MAC filtering</b>	Yes	Yes	Yes	Yes
<b>Layer-2 isolation</b>	Yes, multiple profile	Yes, multiple profile	Yes, multiple profile	Yes, multiple profile
<b>RADIUS authentication</b>	Yes	Yes	Yes	Yes
<b>Microsoft AD authentication</b>	Yes	-	-	-
<b>MAC authentication</b>	Yes**	Yes**	Yes**	Yes**
<b>Rogue AP detection</b>	Yes	Yes	Yes	Yes
<b>Firewall</b>	-	-	-	-
<b>Network</b>				
<b>IPv6 host</b>	Yes	Yes	Yes	Yes
<b>VLANs</b>	Yes	Yes	Yes	Yes
<b>DHCP client</b>	Yes	Yes	Yes	Yes
<b>NAT</b>	-	-	Yes**	-
<b>Management</b>				
<b>Standalone AP mode</b>	Yes	Yes	Yes	Yes
<b>Managed AP mode</b>	-	-	-	-
<b>NebulaFlex</b>	Yes	Yes	Yes	Yes
<b>Web UI/CLI</b>	Yes	Yes	Yes	Yes
<b>SNMP</b>	-	-	Yes	Yes
<b>Others</b>				
<b>Power supply</b>	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 1.5 A	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 2 A	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 1 A	802.3at PoE injector
<b>MTBF (hrs)</b>	1,010,980	420,539	630,794	1,005,235
<b>Heat dissipation (BTU/hr)</b>	54.6	69.9	37.5	42.7
<b>Physical Specifications</b>				
<b>Item dimensions (WxDxH)(mm/in.)</b>	140 x 140 x 37.5/ 5.51 x 5.51 x 1.48	140 x 140 x 37.5/ 5.51 x 5.51 x 1.48	140 x 140 x 37.5/ 5.51 x 5.51 x 1.48	203.9 x 191.7 x 34.7/ 8.03 x 7.55 x 1.37
<b>Item weight (g/lb.)</b>	290/0.64	352/0.78	249/0.55	445/0.98
<b>Included accessories</b>	<ul style="list-style-type: none"> <li>• Power adapter</li> <li>• Mount plate</li> <li>• Mounting screws</li> </ul>	<ul style="list-style-type: none"> <li>• Power adapter</li> <li>• Mount plate</li> <li>• Mounting screws</li> </ul>	<ul style="list-style-type: none"> <li>• Power adapter</li> <li>• Wall/ceiling mount plate</li> </ul>	<ul style="list-style-type: none"> <li>• PoE injector</li> <li>• Wall/ceiling mount plate</li> <li>• Mounting screws</li> </ul>

\*: Supported when work with AP Controller






\*\* : Supported when work with Nebula Control Center

## Access Point

Model	POE AP 1000 series		
	WiFi 6		WiFi 6E
	NWA10AX	NWA210AX	NWA220AX-6E
<b>Product name</b>	802.11ax (WiFi 6) Dual-Radio PoE Access Point	802.11ax (WiFi 6) Dual-Radio PoE Access Point	802.11ax (WiFi 6E) Dual-Radio PoE Access Point
			
<b>Main Design</b>			
<b>Wireless frequency</b>	2.4 and 5 GHz	2.4 and 5 GHz	2.4 and 5/6 GHz
<b>Radio</b>	2	2	2
<b>RF Specifications</b>			
<b>Number of antenna</b>	4 embedded (2T2R MIMO)	6 embedded (2.4G: 2T2R MIMO/5G: 4T4R MIMO)	6 embedded (4T4R+2T2R MIMO)
<b>Antenna gain</b>	5 dBi @2.4 GHz 6 dBi @5 GHz	5 dBi @2.4 GHz 6 dBi @5 GHz	3 dBi @2.4 GHz 5 dBi @5 GHz 6 dBi @6 GHz
<b>LAN</b>			
<b>Number of 10/100/1000M LAN</b>	1	1	1
<b>Number of multigig LAN</b>	-	1 (2.5GbE)	1 (2.5GbE)
<b>PoE</b>	Yes	Yes	Yes
<b>PoE power draw</b>	17 W	19 W	21 W
<b>WLAN Features</b>			
<b>WLAN maximum net throughput</b>	Up to 900 Mbps	Up to 1000 Mbps	Up to 1200 Mbps
<b>WDS</b>	Yes	Yes	Yes
<b>Smart Mesh (Nebula)</b>	Yes	Yes	Yes
<b>Fast roaming (802.11r, k, v)</b>	Yes*	Yes*	Yes**
<b>Wireless Security</b>			
<b>WPA/WPA2-PSK</b>	Yes	Yes	Yes
<b>WPA/WPA2-Enterprise (IEEE 802.1x)</b>	Yes	Yes	Yes
<b>WPA3</b>	Yes	Yes	Yes
<b>DPPSK (WPA2 only)</b>	Yes*	Yes*	Yes* (No in 6 GHz)
<b>EAP types</b>	EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST, EAP-AKA and EAP-SIM	EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST, EAP-AKA and EAP-SIM	EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST, EAP-AKA and EAP-SIM
<b>Number of SSID</b>	16	16	16
<b>Web authentication</b>	Yes*	Yes*	Yes*
<b>MAC filtering</b>	Yes	Yes	Yes
<b>Layer-2 isolation</b>	Yes, multiple profile	Yes, multiple profile	Yes, multiple profile
<b>RADIUS authentication</b>	Yes	Yes	Yes
<b>Microsoft AD authentication</b>	-	-	-
<b>MAC authentication</b>	Yes*	Yes*	Yes*
<b>Rogue AP detection</b>	Yes	Yes	Yes
<b>Firewall</b>	-	-	-
<b>Network</b>			
<b>IPv6 host</b>	Yes	Yes	Yes
<b>VLANs</b>	Yes	Yes	Yes
<b>DHCP client</b>	Yes	Yes	Yes
<b>NAT</b>	Yes*	Yes*	Yes*
<b>Management</b>			
<b>Standalone AP mode</b>	Yes	Yes	Yes
<b>Managed AP mode</b>	-	-	-
<b>NebulaFlex</b>	Yes	Yes	Yes
<b>Web UI/CLI</b>	Yes	Yes	Yes
<b>SNMP</b>	Yes	Yes	Yes
<b>Others</b>			
<b>Power supply</b>	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 1.5 A	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 2 A	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 2 A (Note: PSU sold separately)
<b>MTBF (hrs)</b>	635,837	329,004	711,333
<b>Heat dissipation (BTU/hr)</b>	58.0	64.8	71.7
<b>Physical Specifications</b>			
<b>Item dimensions (WxDxH)(mm/in.)</b>	180 x 180 x 39/7.09 x 7.09 x 1.54	180 x 180 x 39/7.09 x 7.09 x 1.54	180 x 180 x 42/7.09 x 7.09 x 1.65
<b>Item weight (g/lb.)</b>	453/1.00	545/1.20	650/1.43
<b>Included accessories</b>	<ul style="list-style-type: none"> <li>• Power adapter</li> <li>• Mount plate</li> <li>• Mounting screws</li> </ul>	<ul style="list-style-type: none"> <li>• Power adapter</li> <li>• Mount plate</li> <li>• Mounting screws</li> </ul>	<ul style="list-style-type: none"> <li>• Mount plate</li> <li>• Mounting screws</li> </ul>

\*: Supported when work with Nebula Control Center

\*\* : Supported when work with AP Controller or Nebula Control Center


Model	UniFi AP 5000 series				
	WiFi 5			WiFi 6	
	WAC500	WAC500H	WAC5302D-Sv2	WAX300H	WAX510D
<b>Product name</b>	802.11ac Unified Dual-Radio Access Point	802.11ac Wave 2 Unified Wall Platel Access Point	802.11ac Unified Wall Platel Access Point	802.11ax (WiFi 6) Wall-Plate Unified Access Point	802.11ax (WiFi 6) Dual-Radio Unified Access Point
					
<b>Main Design</b>					
<b>Wireless frequency</b>	2.4 and 5 GHz	2.4 and 5 GHz	2.4 and 5 GHz	2.4 and 5 GHz	2.4 and 5 GHz
<b>Radio</b>	2	2	2	2	2
<b>RF Specifications</b>					
<b>Number of antenna</b>	2 embedded dual band (2T2R MIMO)	2 embedded dual band (2T2R MIMO)	4 embedded smart antenna	3 embedded dual band (2.4G: 2T2R MIMO/ 5G: 2T2R MIMO)	4 embedded dual-optimized antenna (2T2R MIMO)
<b>Antenna gain</b>	3 dBi @2.4 GHz 4 dBi @5 GHz	3 dBi @2.4 GHz 4 dBi @5 GHz	5 dBi @2.4 GHz 5 dBi @5 GHz	3 dBi @2.4 GHz 4 dBi @5 GHz	5 dBi @2.4 GHz 6 dBi @5 GHz
<b>LAN</b>					
<b>Number of 10/100/1000M LAN</b>	1	1	4 (One PoE PSE)	4	1
<b>Number of multigig LAN</b>	-	-	-	-	-
<b>PoE</b>	Yes	Yes	Yes	Yes	Yes
<b>PoE power draw</b>	11 W	18 W (Include 7 W for PoE PSE)	24 W (Include 7 W for PoE PSE)	19 W (Include 5 W for PoE PSE)	17 W
<b>WLAN Features</b>					
<b>WLAN maximum net throughput</b>	Up to 450 Mbps	Up to 450 Mbps	Up to 450 Mbps	Up to 1000 Mbps	Up to 1000 Mbps
<b>WDS</b>	Yes	Yes	Yes	Yes	Yes
<b>Smart Mesh (Nebula)</b>	Yes	Yes	Yes	Yes	Yes
<b>Fast roaming (802.11r, k, v)</b>	Yes***	Yes***	Yes***	Yes**	Yes***
<b>Wireless Security</b>					
<b>WPA/WPA2-PSK</b>	Yes	Yes	Yes	Yes	Yes
<b>WPA/WPA2-Enterprise (IEEE 802.1x)</b>	Yes	Yes	Yes	Yes	Yes
<b>WPA3</b>	Yes	Yes	-	Yes	Yes
<b>DPPSK (WPA2 only)</b>	Yes**	Yes**	-	Yes**	Yes**
<b>EAP types</b>	TLS, TTLS, PEAP, FAST, AKA and SIM	TLS, TTLS, PEAP, FAST, AKA and SIM	TLS, TTLS, PEAP, FAST, AKA and SIM	TLS, TTLS, PEAP, FAST, AKA and SIM	EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST, EAP-AKA and EAP-SIM
<b>Number of SSID</b>	16	16	16	16	16
<b>Web authentication</b>	Yes***	Yes***	Yes***	Yes**	Yes***
<b>MAC filtering</b>	Yes	Yes	Yes	Yes	Yes
<b>Layer-2 isolation</b>	Yes, multiple profile	Yes, multiple profile	Yes, multiple profile	Yes, multiple profile	Yes, multiple profile
<b>RADIUS authentication</b>	Yes	Yes	Yes	Yes	Yes
<b>Microsoft AD authentication</b>	Yes*	Yes*	Yes*	Yes*	Yes*
<b>MAC authentication</b>	Yes***	Yes***	Yes***	Yes**	Yes***
<b>Rogue AP detection</b>	Yes	Yes	-	Yes	Yes
<b>Firewall</b>	Yes*	Yes*	Yes*	Yes*	Yes*
<b>Network</b>					
<b>IPv6 host</b>	Yes	Yes	Yes	Yes	Yes
<b>VLANs</b>	Yes	Yes	Yes	Yes	Yes
<b>DHCP client</b>	Yes	Yes	Yes	Yes	Yes
<b>NAT</b>	Yes**	Yes**	Yes**	Yes**	Yes**
<b>Management</b>					
<b>Standalone AP mode</b>	Yes	Yes	Yes	Yes	Yes
<b>Managed AP mode</b>	Yes	Yes	Yes	Yes	Yes
<b>NebulaFlex</b>	Yes (1 yr Pro License)	Yes (1 yr Pro License)	Yes (1 yr Pro License)	Yes (1 yr Pro License)	Yes (1 yr Pro License)
<b>Web UI/CLI</b>	Yes	Yes	Yes	Yes	Yes
<b>SNMP</b>	Yes	Yes	Yes	-	Yes
<b>Others</b>					
<b>Power supply</b>	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 1 A	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 1 A	N/A	N/A	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 1.5 A (Note: PSU sold seperately)
<b>MTBF (hrs)</b>	630,794	542,017	809,263	750,816	329,004
<b>Heat dissipation (BTU/hr)</b>	37.5	61.4	81.9	64.8	58.0
<b>Physical Specifications</b>					
<b>Item dimensions (WxDxH)(mm/in.)</b>	140 x 140 x 37.5/ 5.51 x 5.51 x 1.48	173 x 97 x 29/ 6.81 x 3.82 x 1.14	90 x 170 x 29/ 3.54 x 6.69 x 1.14	173 x 97 x 29/ 6.81 x 3.82 x 1.14	180 x 180 x 39/ 7.09 x 7.09 x 1.54
<b>Item weight (g/lb.)</b>	249/0.55	223/0.49	0.32/0.71	352/0.78	453/1.00
<b>Included accessories</b>	• Wall/ceiling mount plate	• Multi-purpose mounting bracket with screws	• Bracket • Mounting screws	• Multi-purpose mounting bracket with screws	• Mount plate • Mounting screws

\*: Supported when work with AP Controller

\*\* : Supported when work with Nebula Control Center

\*\*\*: Supported when work with AP Controller or Nebula Control Center

## Access Point





Model	UniFi Pro 6000 series		
	WiFi 6	WiFi 6E	WiFi 6
	WAX610D	WAX620D-6E	WAX630S
<b>Product name</b>	802.11ax (WiFi 6) Dual-Radio Unified Access Point	802.11ax (WiFi 6E) Dual-Radio Unified Pro Access Point	802.11ax (WiFi 6) Dual-Radio Unified Pro Access Point
			
<b>Main Design</b>			
<b>Wireless frequency</b>	2.4 and 5 GHz	2.4 and 5/6 GHz	2.4 and 5 GHz
<b>Radio</b>	2	2	2
<b>RF Specifications</b>			
<b>Number of antenna</b>	6 embedded dual-optimized antenna (4T4R+2T2R MIMO)	6 embedded dual-optimized antenna (4T4R+2T2R MIMO)	6 embedded smart antenna (4T4R+2T2R MIMO)
<b>Antenna gain</b>	5 dBi @2.4 GHz 6 dBi @5 GHz	3 dBi @2.4 GHz 5 dBi @5 GHz 6 dBi @6 GHz	3 dBi @2.4 GHz 4.5 dBi @5 GHz
<b>LAN</b>			
<b>Number of 10/100/1000M LAN</b>	1	1	1
<b>Number of multigig LAN</b>	1 (2.5GbE)	1 (2.5GbE)	1 (2.5GbE)
<b>PoE</b>	Yes	Yes	Yes
<b>PoE power draw</b>	19 W	21 W	19 W
<b>WLAN Features</b>			
<b>WLAN maximum net throughput</b>	Up to 1200 Mbps	Up to 1200 Mbps	Up to 1200 Mbps
<b>WDS</b>	Yes	Yes	Yes
<b>Smart Mesh (Nebula)</b>	Yes	Yes	Yes
<b>Fast roaming (802.11r, k, v)</b>	Yes***	Yes***	Yes***
<b>Wireless Security</b>			
<b>WPA/WPA2-PSK</b>	Yes	Yes	Yes
<b>WPA/WPA2-Enterprise (IEEE 802.1x)</b>	Yes	Yes	Yes
<b>WPA3</b>	Yes	Yes	Yes
<b>DPPSK (WPA2 only)</b>	Yes**	Yes** (No in 6 GHz)	Yes**
<b>EAP types</b>	EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST, EAP-AKA and EAP-SIM	EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST, EAP-AKA and EAP-SIM	EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST, EAP-AKA and EAP-SIM
<b>Number of SSID</b>	16	16	16
<b>Web authentication</b>	Yes***	Yes***	Yes***
<b>MAC filtering</b>	Yes	Yes	Yes
<b>Layer-2 isolation</b>	Yes, multiple profile	Yes, multiple profile	Yes, multiple profile
<b>RADIUS authentication</b>	Yes	Yes	Yes
<b>Microsoft AD authentication</b>	Yes*	Yes*	Yes*
<b>MAC authentication</b>	Yes***	Yes***	Yes***
<b>Rogue AP detection</b>	Yes	Yes	Yes
<b>Firewall</b>	Yes*	Yes*	Yes*
<b>Network</b>			
<b>IPv6 host</b>	Yes	Yes	Yes
<b>VLANs</b>	Yes	Yes	Yes
<b>DHCP client</b>	Yes	Yes	Yes
<b>NAT</b>	Yes**	Yes**	Yes**
<b>Management</b>			
<b>Standalone AP mode</b>	Yes	Yes	Yes
<b>Managed AP mode</b>	Yes	Yes	Yes
<b>NebulaFlex</b>	Yes (1 yr Pro License)	Yes (1 yr Pro License)	Yes (1 yr Pro License)
<b>Web UI/CLI</b>	Yes	Yes	Yes
<b>SNMP</b>	Yes	Yes	Yes
<b>Others</b>			
<b>Power supply</b>	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 2 A (Note: PSU sold separately)	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 2 A (Note: PSU sold separately)	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 2 A (Note: PSU sold separately)
<b>MTBF (hrs)</b>	635,837	711,333	635,837
<b>Heat dissipation (BTU/hr)</b>	64.8	71.7	64.8
<b>Physical Specifications</b>			
<b>Item dimensions (WxDxH)(mm/in.)</b>	180 x 180 x 39/7.09 x 7.09 x 1.54	180 x 180 x 42/7.09 x 7.09 x 1.65	180 x 180 x 39/7.09 x 7.09 x 1.54
<b>Item weight (g/lb.)</b>	545/1.20	650/1.43	545/1.20
<b>Included accessories</b>	<ul style="list-style-type: none"> <li>• Mount plate</li> <li>• Mounting screws</li> </ul>	<ul style="list-style-type: none"> <li>• Mount plate</li> <li>• Mounting screws</li> </ul>	<ul style="list-style-type: none"> <li>• Mount plate</li> <li>• Mounting screws</li> </ul>

\*: Supported when work with AP Controller

\*\* : Supported when work with Nebula Control Center

\*\*\*: Supported when work with AP Controller or Nebula Control Center



Model	UniFi Pro 6000 series			
	WiFi 7	WiFi 6E	WiFi 6	
	WBE660S	WAX640S-6E	WAX650S	WAX655E
<b>Product Name</b>	802.11be (WiFi 7) Triple-Radio Unified Pro Access Point	802.11ax (WiFi 6E) Tri-Radio Unified Pro Access Point	802.11ax (WiFi 6) Dual-Radio Business Access Point	802.11ax (WiFi 6) Dual-Radio Unified Pro Outdoor Access Point
				
<b>Main Design</b>				
<b>Wireless frequency</b>	2.4, 5 and 6 GHz	2.4, 5 and 6 GHz	2.4 and 5 GHz	2.4 and 5 GHz
<b>Radio</b>	3	3	3 (1 for monitor)	3 (1 for monitor)
<b>RF Specifications</b>				
<b>Number of antenna</b>	Smart antenna	Smart antenna	Smart antenna	Smart antenna
<b>Antenna gain</b>	3 dBi @2.4 GHz 5 dBi @5 GHz 5 dBi @6 GHz	4 dBi @2.4 GHz 6 dBi @5 GHz 6 dBi @6 GHz	3 dBi @2.4 GHz 5.8 dBi @5 GHz	3 dBi @2.4 GHz 5.8 dBi @5 GHz
<b>LAN</b>				
<b>Number of 10/100/1000M LAN</b>	1	1	1	1
<b>Number of multigig LAN</b>	1 (10GbE)	1 (2.5GbE)	1 (up to 5GbE)	1 (up to 5GbE)
<b>PoE</b>	Yes	Yes	Yes	Yes
<b>PoE power draw</b>	41 W	28 W	31 W	31 W
<b>WLAN Features</b>				
<b>WLAN maximum net throughput</b>	Up to 9000 Mbps	Up to 2500 Mbps	Up to 2000 Mbps	Up to 1200 Mbps
<b>WDS</b>	Yes	Yes	Yes	Yes
<b>Smart Mesh (Nebula)</b>	Yes	Yes	Yes	Yes
<b>Fast Roaming (802.11r, k, v)</b>	Yes***	Yes***	Yes***	Yes***
<b>Wireless Security</b>				
<b>WPA/WPA2-PSK</b>	Yes	Yes	Yes	Yes
<b>WPA/WPA2-Enterprise (IEEE 802.1x)</b>	Yes	Yes	Yes	Yes
<b>WPA3</b>	Yes	Yes	Yes	Yes
<b>DPSSK (WPA2 only)</b>	Yes** (No in 6 GHz)	Yes** (No in 6 GHz)	Yes**	Yes**
<b>EAP types</b>	EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST, EAP-AKA and EAP-SIM	EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST, EAP-AKA and EAP-SIM	EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST, EAP-AKA and EAP-SIM	EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST, EAP-AKA and EAP-SIM
<b>Number of SSID</b>	24	24	16	16
<b>Web authentication</b>	Yes***	Yes***	Yes***	Yes***
<b>MAC filtering</b>	Yes	Yes	Yes	Yes
<b>Layer-2 isolation</b>	Yes, multiple profile	Yes, multiple profile	Yes, multiple profile	Yes, multiple profile
<b>RADIUS authentication</b>	Yes	Yes	Yes	Yes
<b>Microsoft AD authentication</b>	Yes*	Yes*	Yes*	Yes*
<b>MAC authentication</b>	Yes***	Yes***	Yes***	Yes***
<b>Rogue AP detection</b>	Yes	Yes	Yes	Yes
<b>Firewall</b>	Yes*	Yes*	Yes*	Yes*
<b>Network</b>				
<b>IPv6 host</b>	Yes	Yes	Yes	Yes
<b>VLANs</b>	Yes	Yes	Yes	Yes
<b>DHCP client</b>	Yes	Yes	Yes	Yes
<b>NAT</b>	Yes**	Yes**	Yes**	Yes**
<b>Management</b>				
<b>Standalone AP mode</b>	Yes	Yes	Yes	Yes
<b>Managed AP mode</b>	Yes	Yes	Yes	Yes
<b>NebulaFlex</b>	Yes (1 yr Pro License)	Yes (1 yr Pro License)	Yes (1 yr Pro License)	Yes (1 yr Pro License)
<b>Web UI/CLI</b>	Yes	Yes	Yes	Yes
<b>SNMP</b>	Yes	Yes	Yes	Yes
<b>Others</b>				
<b>Power supply</b>	USB Type C Charger: USB PD Output: 15 V/3 A (not included)	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 2.5 A (Note: PSU sold separately)	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 2.5 A (Note: PSU sold separately)	PoE12-30W (sold separately)
<b>MTBF (hrs)</b>	242,749	361,400	180,653	180,653
<b>Heat dissipation (BTU/hr)</b>	139.9	95.9	105.8	105.8
<b>Physical Specifications</b>				
<b>Item dimensions (WxDxH)(mm/in.)</b>	310 x 178 x 56/ 12.205 x 7.01 x 2.205	270 x 150 x 47/ 10.63 x 5.91 x 1.85	230 x 235 x 53.5/ 9.06 x 9.25 x 2.11	256 x 257 x 70/ 10.08 x 10.12 x 2.76
<b>Item weight (g/lb.)</b>	1412/3.11	900/1.98	1160/2.56	1365/3.1
<b>Included accessories</b>	• Pole/wall mount kit • Screw	• Mount plate • Mounting screws	• Mount plate • Mounting screws	• Pole/wall mount kit • Screw


\*: Supported when work with AP Controller

\*\* : Supported when work with Nebula Control Center




\*\*\*: Supported when work with AP Controller or Nebula Control Center

# Antenna


## For Indoor and Outdoor

Model	ANT2105	
Product photo		
Space	Outdoor	
Type	Omni, 1 port	
Frequency band (MHz)	2400 - 2483	5150 - 5875
Gain	4.5 dBi	7 dBi
VSWR	2.0:1 Max.	2.0:1 Max.
Polarization	Linear, vertical	Linear, vertical
HPBW/Horizontal	● 360°	● 360°
HPBW/Vertical	▶ 30°	▶ 15°
Connector	N type plug	
Temperature	-10°C to 70°C/14°F to 158°F	
Weight (g/lb.)	70/0.15	
Dimensions (mm/in.)	ø22 x 183	
Accessory kit	-	

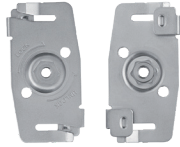


# Cable

Product	LMR 200-N	LMR 400-N	EXT-300
Product photo			
Description	RP-SMA plug to N-plug Cable length: 3 m, 9 m	N-plug to N-plug Cable length: 1 m, 9 m	RP-SMA plug, N-jack (Jumper Cable)/N-plug, N-jack (Surge Arrestor): 0.5 m

# Enclosure

<b>Product</b>	Weather-Proof Enclosure		
<b>Product photo</b>			
<b>Description</b>	<ul style="list-style-type: none"> <li>• Operating temperature range from 50°C to -20°C</li> <li>• IPX5 rating</li> <li>• Wall/Pole mounting (pole mount kit is sold separately)</li> </ul>		
<b>Compatible models</b>	<ul style="list-style-type: none"> <li>• WAX630S</li> <li>• WAX620D-6E</li> <li>• WAX610D</li> <li>• WAX510D</li> <li>• WAC500</li> </ul>	<ul style="list-style-type: none"> <li>• NWA220AX-6E</li> <li>• NWA210AX</li> <li>• NWA110AX</li> <li>• NWA1123-AC PRO</li> <li>• NWA1123ACv3</li> </ul>	<ul style="list-style-type: none"> <li>• NWA90AX</li> <li>• NWA50AX</li> <li>• NWA90AX PRO</li> <li>• NWA50AX PRO</li> </ul>

# Mounting Accessory

<b>Product</b>	ACCESSORY-ZZ0105F	ACCESSORY-ZZ0106F	ACCESSORY-ZZ0107F*
<b>Product photo</b>			
<b>Description</b>	BAR ceiling clips for ceiling mount Zyxel AP (5 sets)	Pole mounting kit for outdoor AP enclosure	Desktop mounting kit for wall-plate Zyxel AP - WAX300H, WAC500H (10 packs)

\*: Desk stand only; does not include the AP.

# ZYXEL

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