



Wireless LAN

Quick Sales Guide

WLAN Portfolio Lineup

Work in both On-premise management
and Nebula cloud management

Features/Scalability



NWA90AX



NWA55AXE



NWA50AX



NWA220AX-6E



NWA1123AC-PRO



NWA210AX



NWA1123ACv3



NWA110AX



Simplicity



Flexibility

Business Scale

Small



WAX640S-6E



WAX6303D-S



WAC6552D-S



WAX620D-6E



WAC5123-AC HD



WAC6553D-E



WAX650S



WAC500



WAC6503D-S



WAX630S



WAC500H



WAC6103D-I



WAX610D



WAC5302D-Sv2



WAX510D

The QoS Ultimate logo features a stylized 'Q' icon followed by the word "Ultimate" in a bold, sans-serif font.

Large

Wireless LAN Access Point Quick Finder

Segment	Series	Management	Model
Medium-Sized Business to Enterprise	Ultimate	<ul style="list-style-type: none">• Controller managed• Cloud managed• Standalone	WAX640S-6E
			
			WAX620D-6E
			
			WAX650S
			
			WAX630S
			
			WAX610D
			

Key Features

Main Design	Key Features
<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 802.11ax (WiFi 6) Dual-Radio Unified Pro Access Point• 5 GHz: 4x4; 2.4 GHz: 4x4• Smart antenna technology• 5GbE uplink	<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 802.11ax (WiFi 6) Dual-Radio Unified Pro Access Point• 5 GHz: 4x4; 2.4 GHz: 2x2• Smart antenna technology• 2.5GbE uplink	<ul style="list-style-type: none">• Dual-radio (dual 4x4 + 2x2 MIMO) 802.11ax AP provides maximum data rate of 2975 Mbps• Smart antenna is the proven technology that can mitigate interference and boost WiFi 6 performance• Coupled the capacity with Zyxel XS1930 Series switches, the 2.5GbE uplink delivers uncompromising multigigabit speed without the need of re-cabling• NebulaFlex Pro allows users to switch among standalone, on-premise controller managed or intuitive Nebula cloud managed modes as needed• Advanced Cellular Coexistence minimizes interferences from 4G/5G cellular networks
<ul style="list-style-type: none">• 802.11ax (WiFi 6) Dual-Radio Unified Access Point• 5 GHz: 4x4; 2.4 GHz: 2x2• Dual-optimized antenna• 2.5GbE uplink	<ul style="list-style-type: none">• Dual-radio (dual 4x4 + 2x2 MIMO) 802.11ax AP provides maximum data rate of 2975 Mbps• Coupled the capacity with Zyxel XS1930 Series switches, the 2.5GbE uplink delivers uncompromising multi-gigabit speed without the need of re-cabling• Dual-optimized antenna provides wall-/ceiling-mounting modes to fit in your deployment• 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
Medium-Sized Business to Enterprise	Ultimate	<ul style="list-style-type: none"> • Controller managed • Cloud managed • Standalone 	WAX510D 
			WAC6503D-S 
			WAC6552D-S 
			WAC6553D-E 
			WAC6303D-S 
			WAC6103D-I 

Main Design	Key Features
<ul style="list-style-type: none"> • 802.11ax (WiFi 6) Dual-Radio Unified Access Point • 5 GHz: 2x2; 2.4 GHz: 2x2 • Dual-optimized antenna 	<ul style="list-style-type: none"> • Dual-radio (dual 2x2 MIMO) 802.11ax AP provides maximum data rate of 1775 Mbps • OFDMA is arguably the best innovation of WiFi, delivering the highest performance and low latency for all scenarios • Dual-optimized antenna provides wall-/ceiling-mounting modes to fit in your deployment • 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
<ul style="list-style-type: none"> • 802.11ac dual radio concurrent 2.4 and 5 GHz support • Smart antenna technology • 3 spatial streams 	<ul style="list-style-type: none"> • NebulaFlex Pro enables the deployment flexibility to be standalone, controller managed or cloud managed mode • Zyxel smart antenna provides premium performance anywhere (WAC6503D-S, WAC6552D-S) • Advanced IEEE 802.11ac offers up to 1.75 Gbps combined data rates (WAC6503D-S, WAC6553D-E) • Dynamic Channel Selection, Load Balancing and Smart Client Steering ensure optimal wireless experience in high density environments • Tool-less bracket design for easy deployment • Outdoor AP are designed for harsh outdoor environments with up to IP67 industrial-grade weather proofing (WAC6552D-S, WAC6553D-E) • Enterprise-grade security for the wireless network edge • Plenum rated housing
<ul style="list-style-type: none"> • 802.11ac dual radio concurrent 2.4 and 5 GHz support • Smart antenna technology • Outdoor coverage • IP67 weather protection 	
<ul style="list-style-type: none"> • 802.11ac dual radio concurrent 2.4 and 5 GHz support • Outdoor coverage • 3 spatial streams • IP66 weather protection 	
<ul style="list-style-type: none"> • 802.11ac Wave 2 MU-MIMO dual radio concurrent 2.4 and 5 GHz support • Smart antenna technology • 3 spatial streams 	<ul style="list-style-type: none"> • NebulaFlex Pro enables the deployment flexibility to be standalone, controller managed or cloud managed mode • Enterprise-class 802.11ac Wave 2 access point supporting 3 streams MU-MIMO for high-density deployments • Next generation beamforming and smart antenna technology deliver excellent WiFi experience • Unbeatable coverage from maximized sensitivity • Advanced Cellular Coexistence minimizes interference from 4G/5G cellular networks
<ul style="list-style-type: none"> • 802.11ac dual radio concurrent 2.4 and 5 GHz support • Dual-optimized antenna • 3 spatial streams 	<ul style="list-style-type: none"> • NebulaFlex Pro enables the deployment flexibility to be standalone, controller managed or cloud managed mode • Enterprise class 3x3 802.11ac AP supports combined data rates of up to 1.75 Gbps • “Dual-optimized antenna” allows pattern optimization adapting to wall- or ceiling-mount installations • Dynamic Channel Selection, Load Balancing and Smart Client Steering ensure optimal wireless experience in medium to high density environments • Stylish, ultra-slim ID design as the 32 mm height blends perfectly into modern interior decorations

Segment	Series	Management	Model
Medium-Sized Business to Enterprise	Ultimate	<ul style="list-style-type: none"> • Controller managed • Cloud managed • Standalone 	WAC5302D-Sv2 
			WAC500 
			WAC500H 
			NWA5123-AC HD 
Small to Medium-Sized Business	Flexibility	<ul style="list-style-type: none"> • Cloud managed • Standalone 	NWA220AX-6E 
			NWA210AX 

Main Design	Key Features
<ul style="list-style-type: none"> • 802.11ac dual radio concurrent 2.4 and 5 GHz support • Smart antenna technology 	<ul style="list-style-type: none"> • Clever wired and wireless network solution for individual hotel guest rooms • The world's first wall-plate AP design that can be mounted on wall plates or directly in any corner • Enterprise-class 2x2 802.11ac AP with smart antenna supporting combined data rates of up to 1.2 Gbps • Three downlink Gigabit Ethernet ports, including one with PoE to power for VoIP phones or other devices
<ul style="list-style-type: none"> • 802.11ac Wave 2, MU-MIMO • 5 GHz: 2x2; 2.4 GHz: 2x2 • 1GbE 802.3af uplink • Interference Immunity 	<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • 802.11ac Wave 2 MU-MIMO dual radio concurrent 2.4 and 5 GHz support • Embedded antenna 	<ul style="list-style-type: none"> • NebulaFlex Pro enables the deployment flexibility to be standalone, controller managed or cloud managed mode • Achieve reliable connectivity, support for more connected clients and better wireless coverage with the latest Wave 2 WiFi standard • Next generation beamforming technology delivers maximum coverage • Solid state capacitors and advanced heat dissipation ensure high reliability and long life — even in the toughest environments • Ceiling- and wall-mount design with optimized RF performance
<ul style="list-style-type: none"> • 802.11axe (WiFi 6E) Dual-Radio PoE Access Point • 6 GHz/5 GHz: 4x4 (Selectable); 2.4 GHz: 2x2 • 2.5GbE uplink • Cellular network coexistence 	<ul style="list-style-type: none"> • 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 • 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
<ul style="list-style-type: none"> • 802.11ax (WiFi 6) Dual-Radio PoE Access Point • 5 GHz: 2x2; 2.4 GHz: 2x2 • 2.5GbE uplink • Cellular network coexistence 	<ul style="list-style-type: none"> • 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"> • Cloud managed • Standalone 	NWA110AX 
			NWA1123-AC PRO
			
			NWA1123-ACv3
			
Small Business, Simplicity Series	Simplicity	<ul style="list-style-type: none"> • Cloud managed • Standalone 	NWA90AX 
			NWA55AXE
			
			NWA50AX
			

Main Design	Key Features
<ul style="list-style-type: none"> • 802.11ax (WiFi 6) Dual-Radio PoE Access Point • 5 GHz: 2x2; 2.4 GHz: 2x2 • Cellular network coexistence 	<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • 802.11ac Dual radio 2.4 and 5 GHz support • Dual-optimized antenna 	
<ul style="list-style-type: none"> • 802.11ac Wave 2, MU-MIMO • 5 GHz: 2x2; 2.4 GHz: 2x2 • 1GbE 802.3af uplink • Interference Immunity 	
<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Dual-radio (dual 2x2) 802.11ax AP provides maximum data rate of 1775 Mbps • 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
<ul style="list-style-type: none"> • 802.11ax (WiFi 6) Dual-Radio Outdoor PoE Access Point • Outdoor coverage up to IP55 weatherproof rating 	<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • 802.11ax (WiFi 6) Dual-Radio PoE Access Point • 5 GHz: 2x2; 2.4 GHz: 2x2 • Cellular network coexistence 	<ul style="list-style-type: none"> • Dual-radio (dual 2x2) 802.11ax AP provides maximum data rate of 1775 Mbps • 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 • The WPA3 Personal provides safer encryption • 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	NWA55AXE
	NWA90AX		
Product name	802.11ax (WiFi 6) Dual-Radio PoE Access Point	802.11ax (WiFi 6) Dual-Radio Outdoor PoE Access Point	802.11ax (WiFi 6) Dual-Radio PoE Access Point
Main Design			
Wireless frequency	2.4 and 5 GHz	2.4 and 5 GHz	2.4 and 5 GHz
Radio	2	2	2
RF Specifications			
Number of antenna	2 embedded dual band (2T2R MIMO)	2 external (2T2R MIMO)	2 embedded dual band (2T2R MIMO)
Antenna gain	3 dBi @2.4 GHz 4 dBi @5 GHz	4 dBi @2.4 GHz 5 dBi @5 GHz	3 dBi @2.4 GHz 4 dBi @5 GHz
LAN			
Number of 10/100/1000M LAN	1	1	1
Number of multigig LAN	-	-	-
PoE	Yes	Yes	Yes
PoE power draw	16 W	16 W	16 W
WLAN Features			
WLAN maximum net throughput	Up to 900 Mbps	Up to 900 Mbps	Up to 900 Mbps
WDS	Yes	Yes	Yes
Smart Mesh (Nebula)	Yes	Yes	Yes
Fast roaming (802.11r, k, v)	Yes*	Yes*	Yes*
Wireless Security			
WPA/WPA2-PSK	Yes	Yes	Yes
WPA/WPA2-Enterprise (IEEE 802.1x)	No	No	Yes
WPA3	Yes (Personal)	Yes (Personal)	Yes
DPPSK (WPA2 only)	-	-	-
EAP types	No	No	TLS, TTLS, PEAP, FAST, AKA and SIM
Number of SSID	16	16	Yes
MAC filtering	Yes	Yes	16
Layer-2 isolation	-	-	Yes
RADIUS authentication	-	-	Yes, multiple profile
Microsoft AD authentication	-	-	Yes
Rogue AP detection	Yes	Yes	Yes
Rogue AP containment	-	-	Yes
Firewall	-	-	-
Network			
IPv6 host	Yes	Yes	Yes
VLANs	Yes	Yes	Yes
DHCP client	Yes	Yes	Yes
NAT	-	-	-
Management			
Standalone AP mode	Yes	Yes	Yes
Controller mode	-	-	-
NebulaFlex	Yes	Yes	Yes
Web UI/CLI	Yes	Yes	Yes
SNMP	-	-	-
Others			
Power supply	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 1.5 A	802.3at PoE injector	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 1.5 A
MTBF (hrs)	1,010,980	1,091,186	1,010,980
Heat dissipation (BTU/hr)	54.6	54.6	54.6
Physical Specifications			
Item dimensions (WxDxH)(mm/in.)	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	140 x 140 x 37.5/5.51 x 5.51 x 1.48
Item weight (g/lb.)	290/0.64	580/1.28	290/0.64
Included accessories	<ul style="list-style-type: none"> • Power adapter • Mount plate • Mounting screws 	<ul style="list-style-type: none"> • PoE injector • Mounting screws 	<ul style="list-style-type: none"> • Power adapter • Mount plate • Mounting screws

*: Supported when work with Nebula Control Center.

Model	POE AP 1000 series			
	WiFi 5		WiFi 6	
	NWA1123ACv3	NWA1123-AC PRO	NWA110AX	NWA210AX
Product name	802.11ac Wave 2 Dual-Radio Ceiling Mount PoE Access Point	802.11ac Dual-Radio Dual Mount PoE Access Point	802.11ax (WiFi 6) Dual-Radio PoE Access Point	802.11ax (WiFi 6) Dual-Radio PoE Access Point
				
Main Design				
Wireless frequency	2.4 and 5 GHz	2.4 and 5 GHz	2.4 and 5 GHz	2.4 and 5 GHz
Radio	2	2	2	2
RF Specifications				
Number of antenna	2 embedded dual band (2T2R MIMO)	8 embedded dual-optimized antenna	4 embedded (2T2R MIMO)	6 embedded (2.4G: 2T2R MIMO/ 5G: 4T4R MIMO)
Antenna gain	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	5 dBi @2.4 GHz 6 dBi @5 GHz	5 dBi @2.4 GHz 6 dBi @5 GHz
LAN				
Number of 10/100/1000M LAN	1	2	1	1
Number of multigig LAN	-	-	-	1 (2.5GbE)
PoE	Yes	Yes	Yes	Yes
PoE power draw	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.	17 W	19 W
WLAN Features				
WLAN maximum net throughput	Up to 450 Mbps	Up to 900 Mbps	Up to 900 Mbps	Up to 1000 Mbps
WDS	Yes	Yes	Yes	Yes
Smart Mesh (Nebula)	Yes	Yes	Yes	Yes
Fast roaming (802.11r, k, v)	Yes**	Yes**	Yes**	Yes**
Wireless Security				
WPA/WPA2-PSK	Yes	Yes	Yes	Yes
WPA/WPA2-Enterprise (IEEE 802.1x)	Yes	Yes	Yes	Yes
WPA3	Yes	-	Yes	Yes
DPPSK (WPA2 only)	Yes**	-	Yes**	Yes**
EAP types	TLS, TTLS, PEAP, FAST, AKA and 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
Number of SSID	16	16	16	16
MAC filtering	Yes	Yes	Yes	Yes
Layer-2 isolation	Yes, multiple profile	Yes, multiple profile	Yes, multiple profile	Yes, multiple profile
RADIUS authentication	Yes	Yes	Yes	Yes
Microsoft AD authentication	-	-	-	-
Rogue AP detection	Yes	Yes	Yes	Yes
Rogue AP containment	Yes	Yes	-	-
Firewall	-	-	-	-
Network				
IPv6 host	Yes	Yes	Yes	Yes
VLANs	Yes	Yes	Yes	Yes
DHCP client	Yes	Yes	Yes	Yes
NAT	Yes**	-	Yes**	Yes**
Management				
Standalone AP mode	Yes	Yes	Yes	Yes
Controller mode	-	-	-	-
NebulaFlex	Yes	Yes	Yes	Yes
Web UI/CLI	Yes	Yes	Yes	Yes
SNMP	Yes	Yes	Yes	Yes
Others				
Power supply	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 1 A	802.3at PoE injector	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
MTBF (hrs)	630,794	1,005,235	635,837	329,004
Heat dissipation (BTU/hr)	37.5	42.7	58.0	64.8
Physical Specifications				
Item dimensions (WxDxH)(mm/in.)	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	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
Item weight (g/lb.)	249/0.55	445/0.98	453/1.00	545/1.20
Included accessories	• Power adapter • Wall/ceiling mount plate	• PoE injector • Wall/ceiling mount plate • Mounting screws	• Power adapter • Mount plate • Mounting screws	• Power adapter • Mount plate • Mounting screws

*: Supported when work with AP Controller

**: Supported when work with Nebula Control Center

Access Point

Model	POE AP 1000 series	UniFi AP 5000 series		
	WiFi 6E	WiFi 5		WiFi 6
	NWA220AAX-6E	WAC500	NWA5123-AC HD	WAX510D
Product name	802.11ax (WiFi 6E) Dual-Radio PoE Access Point	802.11ac Unified Dual-Radio Access Point	802.11ac Wave 2 Dual-Radio Unified Access Point	802.11ax (WiFi 6) Dual-Radio Unified Access Point
				
Main Design				
Wireless frequency	2.4 and 5/6 GHz	2.4 and 5 GHz	2.4 and 5 GHz	2.4 and 5 GHz
Radio	2	2	2	2
RF Specifications				
Number of antenna	6 embedded (4T4R+2T2R MIMO)	2 embedded dual band (2T2R MIMO)	5 embedded (2.4G: 2T2R MIMO/ 5G: 3T3R MIMO)	4 embedded dual-optimized antenna (2T2R MIMO)
Antenna gain	3 dBi @2.4 GHz 5 dBi @5 GHz 6 dBi @6 GHz	3 dBi @2.4 GHz 4 dBi @5 GHz	3 dBi @2.4 GHz 3 dBi @5 GHz	5 dBi @2.4 GHz 6 dBi @5 GHz
LAN				
Number of 10/100/1000M LAN	1	1	2	1
Number of multigig LAN	1(2.5GbE)	-	-	-
PoE	Yes	Yes	Yes	Yes
PoE power draw	21 W	11 W	15.5 W (802.3at PoE)	17 W
WLAN Features				
WLAN maximum net throughput	Up to 1200 Mbps	Up to 450 Mbps	Up to 900 Mbps	Up to 1000 Mbps
WDS	Yes	Yes	Yes	Yes
Smart Mesh (Nebula)	Yes	Yes	Yes	Yes
Fast roaming (802.11r, k, v)	Yes**	Yes***	Yes***	Yes***
Wireless Security				
WPA/WPA2-PSK	Yes	Yes	Yes	Yes
WPA/WPA2-Enterprise (IEEE 802.1x)	Yes	Yes	Yes	Yes
WPA3	Yes	Yes	-	Yes
DPPSK (WPA2 only)	Yes* (No in 6 GHz)	Yes**	-	Yes**
EAP types	EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST, EAP-AKA and EAP-SIM	TLS, TTLS, PEAP, FAST, AKA and 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
Number of SSID	16	16	16	16
MAC filtering	Yes	Yes	Yes	Yes
Layer-2 isolation	Yes, multiple profile	Yes, multiple profile	Yes, multiple profile	Yes, multiple profile
RADIUS authentication	Yes	Yes	Yes	Yes
Microsoft AD authentication	-	Yes*	Yes*	Yes*
Rogue AP detection	Yes	Yes	Yes	Yes
Rogue AP containment	-	Yes	-	-
Firewall	-	Yes*	Yes*	Yes*
Network				
IPv6 host	Yes	Yes	Yes	Yes
VLANs	Yes	Yes	Yes	Yes
DHCP client	Yes	Yes	Yes	Yes
NAT	Yes*	Yes**	Yes**	Yes**
Management				
Standalone AP mode	Yes	Yes	Yes	Yes
Controller mode	-	Yes	Yes	Yes
NebulaFlex	Yes	Yes (1 yr Pro License)	Yes (1 yr Pro License)	Yes (1 yr Pro License)
Web UI/CLI	Yes	Yes	Yes	Yes
SNMP	Yes	Yes	Yes	Yes
Others				
Power supply	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 1 A	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 1.5 A (Note: PSU sold separately)
MTBF (hrs)	711,333	630,794	4,134,738	329,004
Heat dissipation (BTU/hr)	71.7	37.5	52.9	58.0
Physical Specifications				
Item dimensions (WxDxH)(mm/in.)	180 x 180 x 42/ 7.09 x 7.09 x 1.65	140 x 140 x 37.5/ 5.51 x 5.51 x 1.48	211 x 223 x 39/ 8.31 x 8.78 x 1.54	180 x 180 x 39/ 7.09 x 7.09 x 1.54
Item weight (g/lb.)	650/1.43	249/0.55	750/1.653	453/1.00
Included accessories	• Mount plate • Mounting screws	• Wall/ceiling mount plate	• Wall/ceiling mount plate • Mounting screws	• Mount plate • Mounting screws

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Model	UniFi AP 5000 series		UniFi AP 6000 series	
	WiFi 5		WiFi 5	WiFi 6
	WAC500H	WAC5302D-Sv2	WAC6103D-I	WAX610D
Product name	802.11ac Wave 2 Unified Wall Plate Access Point	802.11ac Unified Wall Plate Access Point	802.11 a/b/g/n/ac Dual-Radio Business Access Point	802.11ax (WiFi 6) Dual-Radio Unified Access Point
				
Main Design				
Wireless frequency	2.4 and 5 GHz	2.4 and 5 GHz	2.4 and 5 GHz	2.4 and 5 GHz
Radio	2	2	2	2
RF Specifications				
Number of antenna	2 embedded dual band (2T2R MIMO)	4 embedded smart antenna	8 embedded dual-optimized antenna	6 embedded dual-optimized antenna (4T4R+2T2R MIMO)
Antenna gain	3 dBi @2.4 GHz 4 dBi @5 GHz	5 dBi @2.4 GHz 5 dBi @5 GHz	Ceiling: 3 dBi @2.4 GHz; 4 dBi @5 GHz Wall: 4 dBi @2.4 GHz; 5 dBi @5 GHz	5 dBi @2.4 GHz 6 dBi @5 GHz
LAN				
Number of 10/100/1000M LAN	1	4 (One PoE PSE)	2	1
Number of multigig LAN	-	-	-	1(2.5GbE)
PoE	Yes	Yes	Yes	Yes
PoE power draw	18 W (Include 7 W for PoE PSE)	24 W (Include 7 W for PoE PSE)	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.	19 W
WLAN Features				
WLAN maximum net throughput	Up to 450 Mbps	Up to 450 Mbps	Up to 900 Mbps	Up to 1200 Mbps
WDS	Yes	Ye	Yes	Yes
Smart Mesh (Nebula)	Yes	Yes	Yes	Yes
Fast roaming (802.11r, k, v)	Yes***	Yes***	Yes***	Yes***
Wireless Security				
WPA/WPA2-PSK	Yes	Yes	Yes	Yes
WPA/WPA2-Enterprise (IEEE 802.1x)	Yes	Yes	Yes	Yes
WPA3	Yes	-	-	Yes
DPPSK (WPA2 only)	Yes**	-	-	Yes**
EAP types	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	EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST, EAP-AKA and EAP-SIM
Number of SSID	16	16	16	16
MAC filtering	Yes	Yes	Yes	Yes
Layer-2 isolation	Yes, multiple profile	Yes, multiple profile	Yes	Yes, multiple profile
RADIUS authentication	Yes	Yes	Yes	Yes
Microsoft AD authentication	Yes*	Yes*	Yes*	Yes*
Rogue AP detection	Yes	-	Yes	Yes
Rogue AP containment	Yes	-	Yes	-
Firewall	Yes*	Yes*	Yes*	Yes*
Network				
IPv6 Host	Yes	Yes	Yes	Yes
VLANs	Yes	Yes	Yes	Yes
DHCP client	Yes	Yes	Yes	Yes
NAT	Yes**	Yes**	-	Yes**
Management				
Standalone AP mode	Yes	Yes	Yes	Yes
Controller mode	Yes	Yes	Yes	Yes
NebulaFlex	Yes (1 yr Pro License)	Yes (1 yr Pro License)	Yes (1 yr Pro License)	Yes (1 yr Pro License)
Web UI/CLI	Yes	Yes	Yes	Yes
SNMP	Yes	Yes	Yes	Yes
Others				
Power supply	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 1A	N/A	802.3at PoE only (No DC jack)	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 2 A (Note: PSU sold separately)
MTBF (hrs)	542,017	809,263	1,005,235	635,837
Heat dissipation (BTU/hr)	61.4	81.9	42.7	64.8
Physical Specifications				
Item dimensions (WxDxH)(mm/in.)	173 x 97 x 29/ 6.81 x 3.82 x 1.14	90 x 170 x 29/ 3.54 x 6.69 x 114	203.9 x 191.7 x 34.7/ 8.03 x 7.55 x 1.37	180 x 180 x 39/ 7.09 x 7.09 x 1.54
Item weight (g/lb.)	223/0.49	0.32/0.71	445/0.98	545/1.20
Included accessories	• Multi-purpose mounting bracket with screws	• Bracket • Mounting screws	• Wall/ceiling mount plate • Mounting screws	• Mount plate • Mounting screws

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Access Point

Model	UniFi AP 6000 series			
	WiFi 6E	WiFi 6	WiFi 5	
	WAX620D-6E	WAX630S	WAC6303D-S	WAC6503D-S
Product name	802.11ax (WiFi 6E) Dual-Radio Unified Pro Access Point	802.11ax (WiFi 6) Dual-Radio Unified Pro Access Point	802.11ac Wave 2 Dual-Radio Unified Pro Access Point	802.11 a/b/g/n/ac Dual-Radio Business Access Point
				
Main Design				
Wireless frequency	2.4 and 5/6 GHz	2.4 and 5 GHz	2.4 and 5 GHz	2.4 and 5 GHz
Radio	2	2	2	2
RF Specifications				
Number of antenna	6 embedded dual-optimized antenna (4T4R+2T2R MIMO)	6 embedded smart antenna (4T4R+2T2R MIMO)	5 embedded (2.4G: 2T2R MIMO/ 5G: 3T3R MIMO)	6 embedded smart antenna
Antenna gain	3 dBi @2.4 GHz 5 dBi @5 GHz 6 dBi @6 GHz	3 dBi @2.4 GHz 4.5 dBi @5 GHz	3 dBi @2.4 GHz 4 dBi @5 GHz	4 dBi @2.4 GHz 6 dBi @5 GHz
LAN				
Number of 10/100/1000M LAN	1	1	2	2
Number of multigig LAN	1(2.5GbE)	1(2.5GbE)	-	-
PoE	Yes	Yes	Yes	Yes
PoE power draw	21 W	19 W	16.2 W (802.3at PoE)	21 W
WLAN Features				
WLAN maximum net throughput	Up to 1200 Mbps	Up to 1200 Mbps	Up to 900 Mbps	Up to 900 Mbps
WDS	Yes	Yes	Yes	Yes
Smart Mesh (Nebula)	Yes	Yes	Yes	Yes
Fast roaming (802.11r, k, v)	Yes***	Yes***	Yes***	Yes***
Wireless Security				
WPA/WPA2-PSK	Yes	Yes	Yes	Yes
WPA/WPA2-Enterprise (IEEE 802.1x)	Yes	Yes	Yes	Yes
WPA3	Yes	Yes	-	-
DPPSK (WPA2 only)	Yes** (No in 6 GHz)	Yes**	-	-
EAP types	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
Number of SSID	16	16	16	16
MAC filtering	Yes	Yes	Yes	Yes
Layer-2 isolation	Yes, multiple profile	Yes, multiple profile	Yes, multiple profile	Yes
RADIUS authentication	Yes	Yes	Yes	Yes
Microsoft AD authentication	Yes*	Yes*	Yes*	Yes*
Rogue AP detection	Yes	Yes	Yes	Yes
Rogue AP containment	-	-	-	Yes
Firewall	Yes*	Yes*	Yes*	Yes*
Network				
IPv6 host	Yes	Yes	Yes	Yes
VLANs	Yes	Yes	Yes	Yes
DHCP client	Yes	Yes	Yes	Yes
NAT	Yes**	Yes**	Yes**	-
Management				
Standalone AP mode	Yes	Yes	Yes	Yes
Controller mode	Yes	Yes	Yes	Yes
NebulaFlex	Yes (1 yr Pro License)	Yes (1 yr Pro License)	Yes (1 yr Pro License)	Yes (1 yr Pro License)
Web UI/CLI	Yes	Yes	Yes	Yes
SNMP	Yes	Yes	Yes	Yes
Others				
Power supply	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)	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 2 A (not included)
MTBF (hrs)	711,333	635,837	3,960,217	1,202,489
Heat dissipation (BTU/hr)	71.7	64.8	55.3	71.7
Physical Specifications				
Item dimensions (WxDxH)(mm/in.)	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	211 x 223 x 39/ 8.31 x 8.78 x 1.54	236 x 227 x 62/ 9.28 x 8.95 x 2.43
Item weight (g/lb.)	650/1.43	545/1.20	800/1.763	982/2.17
Included accessories	• Mount plate • Mounting screws	• Mount plate • Mounting screws	• Wall/ceiling mount plate • Mounting screws	• Ceiling mount plate • Screw

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Model	UniFi AP 6000 series			
	WiFi 6E	WiFi 6	WiFi 5	
	WAX640S-6E	WAX650S	WAC6553D-E	WAC6552D-S
Product Name	802.11ax (WiFi 6E) Tri-Radio Unified Pro Access Point	802.11ax (WiFi 6) Dual-Radio Business Access Point	802.11ac Dual-Radio Unified Pro Outdoor Access Point	802.11ac Dual-Radio Unified Pro Outdoor Access Point
				
Main Design				
Wireless frequency	2.4, 5 and 6 GHz	2.4 and 5 GHz	2.4 and 5 GHz	2.4 and 5 GHz
Radio	3	3 (1 for monitor)	2	2
RF Specifications				
Number of antenna	Smart antenna	Smart antenna	6 external (optional accessory)	4 embedded smart antenna
Antenna gain	4 dBi @2.4 GHz 6 dBi @5 GHz 6 dBi @6 GHz	3 dBi @2.4 GHz 5.8 dBi @5 GHz	N/A	5 dBi @2.4 GHz 10 dBi @5 GHz
LAN				
Number of 10/100/1000M LAN	1	1	1	1
Number of multigig LAN	1 (2.5GbE)	1 (up to 5GbE)	-	-
PoE	Yes	Yes	Yes	Yes
PoE power draw	28 W	31 W	25 W	15.12 W
WLAN Features				
WLAN maximum net throughput	Up to 2500 Mbps	Up to 2000 Mbps	Up to 900 Mbps	Up to 600 Mbps
WDS	Yes	Yes	Yes	Yes
Smart Mesh (Nebula)	Yes	Yes	Yes	Yes
Fast Roaming (802.11r, k, v)	Yes***	Yes***	Yes***	Yes***
Wireless Security				
WPA/WPA2-PSK	Yes	Yes	Yes	Yes
WPA/WPA2-Enterprise (IEEE 802.1x)	Yes	Yes	Yes	Yes
WPA3	Yes	Yes	-	-
DPPSK (WPA2 only)	Yes** (No in 6 GHz)	Yes**	-	-
EAP types	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
Number of SSID	24	16	16	16
MAC filtering	Yes	Yes	Yes	Yes
Layer-2 isolation	Yes, multiple profile	Yes, multiple profile	Yes	Yes
RADIUS authentication	Yes	Yes	Yes	Yes
Microsoft AD authentication	Yes*	Yes*	Yes*	Yes*
Rogue AP detection	Yes	Yes	Yes	Yes
Rogue AP containment	-	-	Yes	Yes
Firewall	Yes*	Yes*	Yes*	Yes*
Network				
IPv6 host	Yes	Yes	Yes	Yes
VLANs	Yes	Yes	Yes	Yes
DHCP client	Yes	Yes	Yes	Yes
NAT	Yes**	Yes**	-	-
Management				
Standalone AP mode	Yes	Yes	Yes	Yes
Controller mode	Yes	Yes	Yes	Yes
NebulaFlex	Yes (1 yr Pro License)	Yes (1 yr Pro License)	Yes (1 yr Pro License)	Yes (1 yr Pro License)
Web UI/CLI	Yes	Yes	Yes	Yes
SNMP	Yes	Yes	Yes	Yes
Others				
Power supply	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)	PoE12HP (not included)	PoE12HP (not included)
MTBF (hrs)	361,400	180,653	562,413	775,977
Heat dissipation (BTU/hr)	95.9	105.8	85.3	51.6
Physical Specifications				
Item dimensions (WxDxH)(mm/in.)	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	255 x 256 x 62/ 10.04 x 10.08 x 2.44	255 x 256 x 66/ 10.04 x 10.08 x 2.60
Item weight (g/lb.)	900/1.98	1160/2.56	1708/3.77	1590/3.51
Included accessories	• Mount plate • Mounting screws	• Mount plate • Mounting screws	• Power injector • Power cord • Pole mount kit • Wall-mount kit • Water-proof • Water-tape • Screw	• Pole mount kit • Screw

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Antenna

For Indoor and Outdoor

Model	EXT-118	ANT2105
Product photo		
		
Space	Outdoor	Outdoor
Type	Directional, 1 port	Omni, 1 port
Frequency band (MHz)	2400 - 2500	2400 - 2483 5150 - 5875
Gain	18 dBi	4.5 dBi 7 dBi
VSWR	1.5:1 Max.	2.0:1 Max. 2.0:1 Max.
Polarization	Linear, vertical	Linear, vertical Linear, vertical
HPBW/Horizontal	15°	360°
HPBW/Vertical	— 15°	30°
Connector	N type jack	N type plug
Temperature	-40°C to 80°C/-40°F to 176°F	-10°C to 70°C/14°F to 158°F
Weight (g/lb.)	1600/3.53	70/0.15
Dimensions (mm/in.)	360 x 360 x 16/14.17 x 14.17 x 0.63	ø22 x 183
Accessory kit	<ul style="list-style-type: none"> • Cable: N-plug, RP-SMA plug; 3 m • Mounting set • Quick installation guide 	-

Model	ANT1315	ANT3320
Product photo		
		
Space	Outdoor	Outdoor
Type	Directional, 3x3	Directional, 3x3
Frequency band (MHz)	2400 - 2500	5150 - 5875
Gain	14.5 - 15 dBi	20±1 dBi
VSWR	2.0:1 Max.	2.0:1 Max.
Polarization	Linear, cross polarization	Linear, cross polarization
HPBW/Horizontal	39° - 48°	17°
HPBW/Vertical	— 19° - 20°	— 8°
Side lobes level	-10 dB Max.	-10 dB Max.
Front to back ratio	-19 dB Max.	-35 dB Max.
Connector	N type jack x 3	N type jack x 3
Temperature	-40°C to 80°C/-40°F to 176°F	-40°C to 80°C/-40°F to 176°F
Weight (g/lb.)	1140/2.51	2500/5.51
Dimensions (mm/in.)	320 x 320 x 43/12.60 x 12.60 x 1.69	371 x 371 x 165/14.61 x 14.61 x 6.50
Accessory kit	<ul style="list-style-type: none"> • Mounting kit • Quick installation guide 	<ul style="list-style-type: none"> • Mounting kit • Quick installation guide

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

Product	Weather-Proof Enclosure
Product photo	
Description	<ul style="list-style-type: none">Operating temperature range from 50°C to -20°CIPX5 ratingWall/Pole mounting (pole mount kit is sold separately)
Compatible models	<ul style="list-style-type: none">WAX630SWAX620D-6EWAX610DWAX510DWAC6103D-I <ul style="list-style-type: none">WAC500NWA220AX-6ENWA210AXNWA110AX <ul style="list-style-type: none">NWA1123-AC ProNWA1123ACv3NWA90AXNWA50AX

Mounting Accessory

Product	ACCESSORY-ZZ0105F	ACCESSORY-ZZ0106F
Product photo		
Description	BAR ceiling clips for ceiling mount Zyxel AP (5 sets)	Pole mounting kit for outdoor AP enclosure

Corporate Headquarters

Zyxel Networks Corp.

Tel: +886-3-578-3942
 Fax: +886-3-578-2439
 Email: sales@zyxel.com.tw
www.zyxel.com

Europe

Zyxel Belarus
 Tel: +375 25 604 3739
 Email: info@zyxel.by
www.zyxel.by

Zyxel BeNeLux
 Tel: +31 23 555 3689
 Fax: +31 23 557 8492
 Email: sales@zyxel.nl
www.zyxel.nl
www.zyxel.be

Zyxel Bulgaria
(Bulgaria, Macedonia, Albania, Kosovo)
 Tel: +3592 4443343
 Email: info@cz.zyxel.com
www.zyxel.bg

Zyxel Czech Republic
 Tel: +420 241 091 350
 Hotline: +420 241 774 665
 Fax: +420 241 091 359
 Email: sales@cz.zyxel.com
www.zyxel.cz

Zyxel Denmark A/S
 Tel: +45 39 55 07 00
 Fax: +45 39 55 07 07
 Email: sales@zyxel.dk
www.zyxel.dk

Zyxel Finland
 Tel: +358 9 4780 8400
 Email: myynti@zyxel.fi
www.zyxel.fi

Zyxel France
 Tel: +33 (0)4 72 52 97 97
 Fax: +33 (0)4 72 52 19 20
 Email: info@zyxel.fr
www.zyxel.fr

Zyxel Germany GmbH
 Tel: +49 (0) 2405-6909 0
 Fax: +49 (0) 2405-6909 99
 Email: sales@zyxel.de
www.zyxel.de

Zyxel Hungary & SEE
 Tel: +36 1 848 0690
 Email: info@zyxel.hu
www.zyxel.hu

Zyxel Iberia
 Tel: +34 911 792 100
 Email: ventas@zyxel.es
www.zyxel.es

Zyxel Italy
 Tel: +39 011 230 8000
 Email: info@zyxel.it
www.zyxel.it

Asia

Zyxel Norway
 Tel: +47 22 80 61 80
 Fax: +47 22 80 61 81
 Email: salg@zyxel.no
www.zyxel.no

Zyxel Poland
 Tel: +48 223 338 250
 Hotline: +48 226 521 626
 Fax: +48 223 338 251
 Email: info@pl.zyxel.com
www.zyxel.pl

Zyxel Romania
 Tel: +40 31 0809 888
 Fax: +40 31 0809 890
 Email: info@cz.zyxel.com
www.zyxel.ro

Zyxel Russia
 Tel: +7 499 705 6106
 Email: info@zyxel.ru
www.zyxel.ru

Zyxel Slovakia
 Tel: +421 220 861 847
 Hotline: +421 220 861 848
 Fax: +421 243 193 990
 Email: info@cz.zyxel.com
<http://www.zyxel.sk>

Zyxel Sweden A/S
 Tel: +46 8 55 77 60 60
 Fax: +46 8 55 77 60 61
 Email: sales@zyxel.se
www.zyxel.se

Zyxel Switzerland
 Tel: +41 (0)44 806 51 00
 Fax: +41 (0)44 806 52 00
 Email: info@zyxel.ch
www.zyxel.ch

Zyxel Turkey A.S.
 Tel: +90 212 314 18 00
 Fax: +90 212 220 25 26
 Email: bilgi@zyxel.com.tr
www.zyxel.com.tr

Zyxel UK Ltd.
 Tel: +44 (0) 118 9121 700
 Fax: +44 (0) 118 9797 277
 Email: sales@zyxel.co.uk
www.zyxel.co.uk

Zyxel Ukraine
 Tel: +380 89 323 9959
 Email: info@zyxel.eu
www.zyxel.ua

**Zyxel China (Shanghai)
 China Headquarters**
 Tel: +86-021-61199055
 Fax: +86-021-52069033
 Email: sales@zyxel.cn
www.zyxel.cn

Zyxel China (Beijing)
 Tel: +86-010-62602249
 Email: sales@zyxel.cn
www.zyxel.cn

Zyxel China (Tianjin)
 Tel: +86-022-87890440
 Fax: +86-022-87892304
 Email: sales@zyxel.cn
www.zyxel.cn

Zyxel India
 Tel: +91-11-4760-8800
 Fax: +91-11-4052-3393
 Email: info@zyxel.in
www.zyxel.in

Zyxel Kazakhstan
 Tel: +7 727 350 5683
 Email: info@zyxel.kz
www.zyxel.kz

Zyxel Korea Corp.
 Tel: +82-2-890-5535
 Fax: +82-2-890-5537
 Email: sales@zyxel.kr
www.zyxel.kr

Zyxel Malaysia
 Tel: +603 2282 1111
 Fax: +603 2287 2611
 Email: sales@zyxel.com.my
www.zyxel.com.my

Zyxel Middle East FZE
 Tel: +971 4 372 4483
 Cell: +971 562146416
 Email: sales@zyxel-me.com
www.zyxel-me.com

Zyxel Philippines
 Email: sales@zyxel.com.ph
www.zyxel.com.ph

Zyxel Singapore
 Tel: +65 6339 3218
 Hotline: +65 6339 1663
 Fax: +65 6339 3318
 Email: apac.sales@zyxel.com.tw

Zyxel Taiwan (Taipei)
 Tel: +886-2-2739-9889
 Fax: +886-2-2735-3220
 Email: sales_tw@zyxel.com.tw
www.zyxel.com.tw

Zyxel Thailand
 Tel: +66-(0)-2831-5315
 Fax: +66-(0)-2831-5395
 Email: info@zyxel.co.th
www.zyxel.co.th

Zyxel Vietnam
 Tel: (+848) 35202910
 Fax: (+848) 35202800
 Email: sales_vn@zyxel.com.tw
www.zyxel.com.vn/vi/

The Americas

Zyxel USA
North America Headquarters
 Tel: +1-714-632-0882
 Fax: +1-714-632-0858
 Email: sales@zyxel.com.us
www.zyxel.com/us

Zyxel Brazil
 Tel: +55 (11) 3373-7470
 Fax: +55 (11) 3373-7510
 Email: comercial@zyxel.com.br
www.zyxel.com.br/pt/

For more product information, visit us on the web at www.zyxel.com

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