ZYXEL
NETWORKS

Wireless LAN

Quick Sales Guide

WLAN Portfolio Lineup

Work in both On-premise management and Nebula cloud management

nebula

Features/Scalability

Simplicity	Flexibility	Ultimate
NWA90AX PRO	NWA130BE	WBE660S / WAX650S / WAX655E
NWA50AX PRO	NWA220AX-6E	WBE530 / WAX630S / WAX300H
NWA90AX	NWA210AX	WAX640S-6E / WAX610D / WAC500H
NWA50AX	NWA110AX	WAX620D-6E / WAX510D
NWA55AXE		

Business Scale Small — Large

Wireless LAN Access Point Quick Finder

Segment	Series	Management	Model
Medium-Sized Business to Enterprise	Ultimate	• Controller managed • Cloud managed • Standalone	WBE660S
			WBE530
			WAX640S-6E
			WAX620D-6E
			WAX650S

Key Features

Main Design	Key Features
• BE22000 WiFi 7 Triple-Radio NebulaFlex Pro Access Point • 6 GHz: 4x4; 5 GHz: 4x4; 2.4 GHz: 4x4 • Smart antenna technology • Interference Immunity • 10GbE uplink	• 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
• BE11000 WiFi 7 Triple-Radio NebulaFlex Pro Access Point • 6 GHz: 2x2; 5 GHz: 2x2; 2.4 GHz: 2x2 • Interference Immunity • 2.5GbE uplink	• BE11000 (2x2 in 2.4, 5, and 6 GHz) tri-radio access point provides blazingly fast WiFi 7 speeds up to 11 Gbps • The 2 x 2.5G Ethernet ports enable seamless integration with the existing infrastructure without re-cabling • The advanced RF filter prevents interference between the 5 GHz and 6 GHz bands while guaranteeing performance in all channels • Advanced Cellular Coexistence minimizes interferences from 4G/5G cellular networks • NebulaFlex Pro offers the full flexibility for users to easily switch between Nebula cloud-managed, controller-managed, and standalone modes
• AXE7800 WiFi 6E Triple-Radio NebulaFlex 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
• AXE5400 WiFi 6E Dual-Radio NebulaFlex 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
• AX3600 WiFi 6 Dual-Radio NebulaFlex 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 3600 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		Main Design	Key Features
Medium-Sized Business to Enterprise	Ultimate	• Controller managed • Cloud managed • Standalone	WAX630S		• AX3000 WiFi 6 Dual-Radio NebulaFlex Pro Access Point • 5 GHz: 4x4; 2.4 GHz: 2x2 • Smart antenna technology • 2.5GbE uplink	• Dual-radio (dual 4x4 + 2x2 MIMO) 802.11ax AP provides maximum data rate of 3000 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
			WAX610D		• AX3000 WiFi 6 Dual-Radio NebulaFlex Pro Access Point • 5 GHz: 4x4; 2.4 GHz: 2x2 • Dual-optimized antenna • 2.5GbE uplink	• Dual-radio (dual 4x4 + 2x2 MIMO) 802.11ax AP provides maximum data rate of 3000 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
			WAX510D		• AX1800 WiFi 6 Dual-Radio NebulaFlex Pro Access Pointt • 5 GHz: 2x2; 2.4 GHz: 2x2 • Dual-optimized antenna	• Dual-radio (dual 2x2 MIMO) 802.11ax AP provides maximum data rate of 1800 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
			WAX655E		• AX5400 WiFi 6 Dual-Radio NebulaFlex Pro Outdoor Access Point • Outdoor coverage • 5 GHz: 4x4; 2.4 GHz: 2x2 • 6 external antennas (N-type connector; sold separately) • 2.5 GbE Uplink with PoE+ • IP67 weather protection	• 802.11ax dual radio outdoor AP delivers blazing-fast speeds up to 5.4 Gbps • Designed for harsh outdoor environments with up to IP67 industrial-grade weather proofing • Obtain multi-gigabit performance with a 2.5GbE PoE+ port to support the demand for better outdoor WiFi • Smart Mesh automatically forms dynamic wireless links to bridge networks for inter-building settings and mitigates complex, inconvenient cabling WiFi deployments • NebulaFlex Pro offers the full flexibility for users to easily switch between Nebula cloud-managed, controller-managed, and standalone modes
			WAX300H		• AX3000 WiFi 6 Dual-Radio NebulaFlex Pro Wall-Plate 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

Segment	Series	Management	Model	Main Design	Key Features
Medium-Sized Business to Enterprise	Ultimate	• Controller managed • Cloud managed • Standalone	WAC500H	• AC1200 WiFi 5 Wave 2 Dual-Radio NebulaFlex Pro Wall-Plate Access Point • 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
Small to Medium-Sized Business	Flexibility	• Cloud managed • Standalone	NWA130BE	• BE11000 WiFi 7 Triple-Radio NebulaFlex Access Point • 6 GHz: 2x2; 5 GHz: 2x2; 2.4 GHz: 2x2 • Interference Immunity • 2.5GbE uplink	• BE11000 (2x2 in 2.4, 5, and 6 GHz) tri-radio access point provides blazingly fast WiFi 7 speeds up to 11 Gbps • The 2 x 2.5G Ethernet ports enable seamless integration with the existing infrastructure without re-cabling • The advanced RF filter prevents interference between the 5 GHz and 6 GHz bands while guaranteeing performance in all channels • Advanced Cellular Coexistence minimizes interferences from 4G/5G cellular networks • NebulaFlex allows users to switch between standalone or intuitive Nebula cloud managed modes as needed
			NWA220AX-6E	• AXE5400 WiFi 6E Dual-Radio NebulaFlex Access Point • 6 GHz/5 GHz: 4x4 (Selectable); 2.4 GHz: 2x2 • 2.5GbE uplink • Cellular network coexistence	• 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
			NWA210AX	• AX3000 WiFi 6 Dual-Radio NebulaFlex Access Point • 5 GHz: 4x4; 2.4 GHz: 2x2 • 2.5GbE uplink • Cellular network coexistence	• Dual-radio (dual 4x4 + 2x2) 802.11ax AP provides maximum data rate of 3000 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
			NWA110AX	• AX1800 WiFi 6 Dual-Radio NebulaFlex Access Point • 5 GHz: 2x2; 2.4 GHz: 2x2 • Cellular network coexistence	• Dual-radio (dual 2x2 + 2x2) 802.11ax AP provides maximum data rate of 1800 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 Business, Simplicity Series	Simplicity	• Cloud managed • Standalone	NWA90AX PRO
			NWA90AX
			NWA50AX PRO
			NWA50AX
			NWA55AXE

Main Design	Key Features
• AX3000 WiFi 6 Dual-Radio NebulaFlex 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	• 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-cabling (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
• AX1800 WiFi 6 Dual-Radio NebulaFlex Access Point • 5 GHz: 2x2; 2.4 GHz: 2x2 • Captive portal and IEEE 802.1X authentication support • Cellular network coexistence	
• AX3000 WiFi 6 Dual-Radio NebulaFlex Access Point • 160 MHz channels support • 5 GHz: 3x3; 2.4 GHz: 2x2 • 2.5GbE uplink • Cellular network coexistence	• 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-cabling (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
• AX1800 WiFi 6 Dual-Radio NebulaFlex Access Point • 5 GHz: 2x2; 2.4 GHz: 2x2 • Cellular network coexistence	
• AX1800 WiFi 6 Dual-Radio NebulaFlex Outdoor Access Point • Outdoor coverage up to IP55 weatherproof rating	• 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

Wireless LAN Feature Matrix

Access Point

Model	NebulaFlex Pro AP			
	WiFi 7		**WiFi 6E**	
	WBE660S	**WBE530**	**WAX640S-6E**	**WAX620D-6E**
Product Name	BE22000 WiFi 7 Triple-Radio NebulaFlex Pro Access Point	BE11000 WiFi 7 Triple-Radio NebulaFlex Pro Access Point	AXE7800 WiFi 6E Triple-Radio NebulaFlex Pro Access Point	AXE5400 WiFi 6E Dual-Radio NebulaFlex Pro Access Point

Main Design				
Wireless frequency	2.4, 5 and 6 GHz	2.4, 5 and 6 GHz	2.4, 5 and 6 GHz	2.4 and 5/6 GHz
Radio	3	3	3	2
RF Specifications				
Antenna type	Smart antenna	Internal antenna	Smart antenna	Dual-optimized antenna
Antenna gain	3 dBi @2.4 GHz: 4x4: 4SS / 5 dBi @5 GHz: 4x4: 4SS / 5 dBi @6 GHz: 4x4: 4SS	3 dBi @2.4 GHz: 2x2: 2SS / 4 dBi @5 GHz: 2x2: 2SS / 4 dBi @6 GHz: 2x2: 2SS	4 dBi @2.4 GHz: 2x2: 2SS / 6 dBi @5 GHz: 2x2: 2SS / 6 dBi @6 GHz: 4x4: 4SS	3 dBi @2.4 GHz: 2x2: 2SS / 5 dBi @5 GHz: 4x4: 4SS / 6 dBi @6 GHz: 4x4: 4SS
LAN				
Number of 10/100/1000M LAN	1	-	1	1
Number of multigig LAN	1 (10GbE)	2 (2.5GbE)	1 (2.5GbE)	1 (2.5GbE)
PoE	Yes	Yes	Yes	Yes
PoE power draw	41 W	24 W	28 W	21 W
WLAN Features				
WDS/Mesh	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	Yes
DPPSK (WPA2 only)	Yes** (No in 6 GHz)	Yes** (No in 6 GHz)	Yes** (No in 6 GHz)	Yes** (No in 6 GHz)
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	24	24	16
Web authentication	Yes***	Yes***	Yes***	Yes***
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*	Yes*
MAC authentication	Yes***	Yes***	Yes***	Yes***
Rogue AP detection	Yes	Yes	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**	Yes**
Management				
Standalone AP mode	Yes	Yes	Yes	Yes
Managed AP 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	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 A (Note: PSU sold seperately)	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 2.5 A (Note: PSU sold seperately)	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 2 A (Note: PSU sold seperately)
MTBF (hrs)	242,749	698,312	361,400	711,333
Heat dissipation (BTU/hr)	139.9	81.9	95.9	71.7
Physical Specifications				
Item eimensions (WxDxH)(mm/in.)	310 x 178 x 56/ 12.205 x 7.01 x 2.205	250 x 160 x 47/ 9.84 x 6.30 x 1.85	270 x 150 x 47/ 10.63 x 5.91 x 1.85	180 x 180 x 42/ 7.09 x 7.09 x 1.65
Item weight (g/lb.)	1412/3.11	808/1.79	900/1.98	650/1.43
Included accessories	• Pole/wall mount kit • Screw	• Mount plate • Mounting screws	• Mount plate • Mounting 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

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Model	NebulaFlex Pro AP		
	WiFi 6		
	WAX650S	**WAX630S**	**WAX610D**
Product name	AX3600 WiFi 6 Dual-Radio NebulaFlex Pro Access Point	AX3000 WiFi 6 Dual-Radio NebulaFlex Pro Access Point	AX3000 WiFi 6 Dual-Radio NebulaFlex Pro Access Point

Main Design			
Wireless frequency	2.4 and 5 GHz	2.4 and 5 GHz	2.4 and 5 GHz
Radio	3 (1 for monitor)	2	2
RF Specifications			
Antenna type	Smart antenna	Smart antenna	Dual-optimized antenna
Antenna gain	3 dBi @2.4 GHz: 4x4: 4SS / 5.8 dBi @5 GHz: 4x4: 4SS	3 dBi @2.4 GHz: 2x2: 2SS / 4.5 dBi @5 GHz: 4x4: 4SS	5 dBi @2.4 GHz: 2x2: 2SS / 6 dBi @5 GHz: 4x4: 4SS
LAN			
Number of 10/100/1000M LAN	1	1	1
Number of multigig LAN	1 (up to 5GbE)	1 (2.5GbE)	1 (2.5GbE)
PoE	Yes	Yes	Yes
PoE power draw	31 W	19 W	19 W
WLAN Features			
WDS/Mesh	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)	Yes	Yes	Yes
WPA3	Yes	Yes	Yes
DPPSK (WPA2 only)	Yes**	Yes**	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
Number of SSID	16	16	16
Web authentication	Yes***	Yes***	Yes***
MAC filtering	Yes	Yes	Yes
Layer-2 isolation	Yes, multiple profile	Yes, multiple profile	Yes, multiple profile
RADIUS authentication	Yes	Yes	Yes
Microsoft AD authentication	Yes*	Yes*	Yes*
MAC authentication	Yes***	Yes***	Yes***
Rogue AP detection	Yes	Yes	Yes
Firewall	Yes*	Yes*	Yes*
Network			
IPv6 host	Yes	Yes	Yes
VLANs	Yes	Yes	Yes
DHCP client	Yes	Yes	Yes
NAT	Yes**	Yes**	Yes**
Management			
Standalone AP mode	Yes	Yes	Yes
Managed AP mode	Yes	Yes	Yes
NebulaFlex	Yes (1 yr Pro License)	Yes (1 yr Pro License)	Yes (1 yr Pro License)
Web UI/CLI	Yes	Yes	Yes
SNMP	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 seperately)	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 2 A (Note: PSU sold seperately)	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 2 A (Note: PSU sold seperately)
MTBF (hrs)	180,653	635,837	635,837
Heat dissipation (BTU/hr)	105.8	64.8	64.8
Physical Specifications			
Item dimensions (WxDxH)(mm/in.)	230 x 235 x 53.5/9.06 x 9.25 x 2.11	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.)	1160/2.56	545/1.20	545/1.20
Included accessories	• Mount plate • Mounting screws	• Mount plate • Mounting 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

NebulaFlex Pro AP — WiFi 6

Model	WAX510D	WAX655E	WAX300H
Product name	AX1800 WiFi 6 Dual-Radio NebulaFlex Pro Access Point	AX5400 WiFi 6 Dual-Radio NebulaFlex Pro Outdoor Access Point	AX3000 WiFi 6 Dual-Radio NebulaFlex Pro Wall-Plate 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			
Antenna type	Dual-optimized antenna	External antenna	Internal antenna
Antenna gain	5 dBi @2.4 GHz: 2x2: 2SS 6 dBi @5 GHz: 2x2: 2SS	-	3 dBi @2.4 GHz: 2x2: 2SS 4 dBi @5 GHz: 2x2: 2SS
LAN			
Number of 10/100/1000M LAN	1	1	4
Number of multigig LAN	-	1 (2.5GbE)	-
PoE	Yes	Yes	Yes
PoE power draw	17 W	24.5 W	19 W (Include 5 W for PoE PSE)
WLAN Features			
WDS/Mesh	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)	Yes	Yes	Yes
WPA3	Yes	Yes	Yes
DPPSK (WPA2 only)	Yes**	Yes**	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	TLS, TTLS, PEAP, FAST, AKA and SIM
Number of SSID	16	16	16
Web authentication	Yes***	Yes***	Yes**
MAC filtering	Yes	Yes	Yes
Layer-2 isolation	Yes, multiple profile	Yes, multiple profile	Yes, multiple profile
RADIUS authentication	Yes	Yes	Yes
Microsoft AD authentication	Yes*	Yes*	Yes*
MAC authentication	Yes***	Yes***	Yes**
Rogue AP detection	Yes	Yes	Yes
Firewall	Yes*	Yes*	Yes*
Network			
IPv6 host	Yes	Yes	Yes
VLANs	Yes	Yes	Yes
DHCP client	Yes	Yes	Yes
NAT	Yes**	Yes**	Yes**
Management			
Standalone AP mode	Yes	Yes	Yes
Managed AP mode	Yes	Yes	Yes
NebulaFlex	Yes (1 yr Pro License)	Yes (1 yr Pro License)	Yes (1 yr Pro License)
Web UI/CLI	Yes	Yes	Yes
SNMP	Yes	Yes	-
Others			
Power supply	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 1.5 A (Note: PSU sold seperately)	PoE12-30W (sold seperately)	-
MTBF (hrs)	329,004	992,516	750,816
Heat dissipation (BTU/hr)	58.0	83.6	64.8
Physical Specifications			
Item dimensions (WxDxH)(mm/in.)	180 x 180 x 39/7.09 x 7.09 x 1.54	256 x 257 x 70/10.08 x 10.12 x 2.76	173 x 97 x 29/6.81 x 3.82 x 1.14
Item weight (g/lb.)	310/0.68	1365/3.1	352/0.78
Included accessories	• Mount plate • Mounting screws	• Pole/wall mount kit • Screw	• Multi-purpose mounting bracket with screws

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

NebulaFlex Pro AP (WiFi 5) / NebulaFlex AP (WiFi 7, WiFi 6E)

Model	WAC500H	NWA130BE	NWA220AX-6E
	WiFi 5	WiFi 7	WiFi 6E
Product name	AC1200 WiFi 5 Wave 2 Dual-Radio NebulaFlex Pro Wall-Plate Access Point	BE11000 WiFi 7 Triple-Radio NebulaFlex Access Point	AXE5400 WiFi 6E Dual-Radio NebulaFlex Access Point
Main Design			
Wireless frequency	2.4 and 5 GHz	2.4, 5 and 6 GHz	2.4 and 5/6 GHz
Radio	2	3	2
RF Specifications			
Antenna type	Internal antenna	Internal antenna	Internal antenna
Antenna gain	3 dBi @2.4 GHz: 2x2: 2SS 4 dBi @5 GHz: 2x2: 2SS	3 dBi @2.4 GHz: 2x2: 2SS 4 dBi @5 GHz: 2x2: 2SS 4 dBi @6 GHz: 2x2: 2SS	3 dBi @2.4 GHz: 2x2: 2SS 5 dBi @5 GHz: 4x4: 4SS 6 dBi @6 GHz: 4x4: 4SS
LAN			
Number of 10/100/1000M LAN	3	-	1
Number of multigig LAN	-	2 (2.5GbE)	1 (2.5GbE)
PoE	Yes	Yes	Yes
PoE power draw	18 W (Include 7 W for PoE PSE)	24 W	21 W
WLAN Features			
WDS/Mesh	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)	Yes	Yes	Yes
WPA3	Yes	Yes	Yes
DPPSK (WPA2 only)	Yes**	Yes** (No in 6 GHz)	Yes** (No in 6 GHz)
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
Number of SSID	16	24	16
Web authentication	Yes***	Yes***	Yes**
MAC filtering	Yes	Yes	Yes
Layer-2 isolation	Yes, multiple profile	Yes, multiple profile	Yes, multiple profile
RADIUS authentication	Yes	Yes	Yes
Microsoft AD authentication	Yes*	-	-
MAC authentication	Yes***	Yes**	Yes**
Rogue AP detection	Yes	Yes	Yes
Firewall	Yes*	-	-
Network			
IPv6 host	Yes	Yes	Yes
VLANs	Yes	Yes	Yes
DHCP client	Yes	Yes	Yes
NAT	Yes**	Yes**	Yes**
Management			
Standalone AP mode	Yes	Yes	Yes
Managed AP mode	Yes	-	-
NebulaFlex	Yes (1 yr Pro License)	Yes	Yes
Web UI/CLI	Yes	Yes	Yes
SNMP	Yes	Yes	Yes
Others			
Power supply	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 2A (Note: PSU sold seperately)	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 2 A (Note: PSU sold seperately)
MTBF (hrs)	542,017	698,312	711,333
Heat dissipation (BTU/hr)	61.4	81.9	71.7
Physical Specifications			
Item dimensions (WxDxH)(mm/in.)	173 x 97 x 29/6.81 x 3.82 x 1.14	250 x 160 x 47/9.84 x 6.30 x 1.85	180 x 180 x 42/7.09 x 7.09 x 1.65
Item weight (g/lb.)	223/0.49	808/1.79	650/1.43
Included accessories	• Multi-purpose mounting bracket with screws	• Mount plate • Mounting 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

Left table

Model	NebulaFlex AP			
	WiFi 6			
	NWA210AX	NWA110AX	NWA90AX Pro	NWA90AX
Product name	AX3000 WiFi 6 Dual-Radio NebulaFlex Access Point	AX1800 WiFi 6 Dual-Radio NebulaFlex Access Point	AX3000 WiFi 6 Dual-Radio NebulaFlex Access Point	AX1800 WiFi 6 Dual-Radio NebulaFlex 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				
Antenna type	Internal antenna	Internal antenna	Internal antenna	Internal antenna
Antenna gain	5 dBi @2.4 GHz: 2x2: 2SS 6 dBi @5 GHz: 4x4: 4SS	5 dBi @2.4 GHz: 2x2: 2SS 6 dBi @5 GHz: 2x2: 2SS	3 dBi @2.4 GHz: 2x2: 2SS 4 dBi @5 GHz: 3x3: 2SS	3 dBi @2.4 GHz: 2x2: 2SS 4 dBi @5 GHz: 2x2: 2SS
LAN				
Number of 10/100/1000M LAN	1	1	-	1
Number of multigig LAN	1 (2.5GbE)	-	1	-
PoE	Yes	Yes	Yes	Yes
PoE power draw	19 W	17 W	20.5 W	16 W
WLAN Features				
WDS/Mesh	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	Yes
DPPSK (WPA2 only)	Yes**	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	TLS, TTLS, PEAP, FAST, AKA and SIM	TLS, TTLS, PEAP, FAST, AKA and SIM
Number of SSID	16	16	16	16
Web authentication	Yes**	Yes**	Yes**	Yes**
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	-	-	-	-
MAC authentication	Yes**	Yes**	Yes**	Yes**
Rogue AP detection	Yes	Yes	Yes	Yes
Firewall	-	-	-	-
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
Managed AP mode	-	-	-	-
NebulaFlex	Yes	Yes	Yes	Yes
Web UI/CLI	Yes	Yes	Yes	Yes
SNMP	Yes	Yes	-	-
Others				
Power supply	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 1.5 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 1.5 A
MTBF (hrs)	329,004	635,837	420,539	1,010,980
Heat dissipation (BTU/hr)	64.8	58.0	69.9	54.6
Physical Specifications				
Item dimensions (WxDxH)(mm/in.)	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	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
Item weight (g/lb.)	545/1.20	453/1.00	352/0.78	290/0.64
Included accessories	• Power adapter • Mount plate • Mounting screws	• Power adapter • 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
***: Supported when work with AP Controller or Nebula Control Center

Right table

Model	NebulaFlex AP		
	WiFi 6		
	NWA50AX Pro	NWA50AX	NWA55AXE
Product name	AX3000 WiFi 6 Dual-Radio NebulaFlex Access Point	AX1800 WiFi 6 Dual-Radio NebulaFlex Access Point	AX1800 WiFi 6 Dual-Radio NebulaFlex Outdoor 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			
Antenna type	Internal antenna	Internal antenna	External antenna
Antenna gain	3 dBi @2.4 GHz: 2x2: 2SS 4 dBi @5 GHz: 3x3: 2SS	3 dBi @2.4 GHz: 2x2: 2SS 4 dBi @5 GHz: 2x2: 2SS	4 dBi @2.4 GHz: 2x2: 2SS 5 dBi @5 GHz: 2x2: 2SS
LAN			
Number of 10/100/1000M LAN	-	1	1
Number of multigig LAN	1	-	-
PoE	Yes	Yes	Yes
PoE power draw	20.5 W	16 W	16 W
WLAN Features			
WDS/Mesh	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	No
WPA3	Yes (Personal)	Yes (Personal)	Yes (Personal)
DPPSK (WPA2 only)	-	-	-
EAP types	No	No	No
Number of SSID	16	16	16
Web authentication	-	-	-
MAC filtering	Yes	Yes	Yes
Layer-2 isolation	Yes, multiple profile	Yes, multiple profile (V6.29)	Yes, multiple profile (V6.29)
RADIUS authentication	-	-	-
Microsoft AD authentication	-	-	-
MAC authentication	-	-	-
Rogue AP detection	Yes	Yes	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
Managed AP 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 2 A	Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 1.5 A	802.3at PoE Injector
MTBF (hrs)	420,539	1,010,980	1,091,186
Heat dissipation (BTU/hr)	69.9	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	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
Item weight (g/lb.)	352/0.78	290/0.64	580/1.28
Included accessories	• Power adapter • Mount plate • Mounting screws	• Power adapter • Mount plate • Mounting screws	• PoE injector • Mounting screws

*: Supported when work with 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	-	

*: The antennas are sold in pairs.

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	• Operating temperature range from 50°C to -20°C • IPX5 rating • Wall/Pole mounting (pole mount kit is sold separately)		
Compatible models	• WAX630S • WAX620D-6E • WAX610D • WAX510D	• NWA220AX-6E • NWA210AX • NWA110AX	• NWA90AX • NWA50AX • NWA90AX PRO • NWA50AX PRO

Mounting Accessory

Product	ACCESSORY-ZZ0105F	ACCESSORY-ZZ0106F*	ACCESSORY-ZZ0107F*
Product photo			
Description	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)

*: Does not include the AP.

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