

Unlock Networking Possibilities with Cloud

January 2025



Nebula Cloud NetworkingSolution Guide



Overview

The Nebula cloud networking and management solution provides centralized control and visibility over all Nebula wired, wireless, security and mobile router hardware – all without the cost and complexity of on-site control equipment or overlay management systems. With a comprehensive product portfolio that can be centrally-managed from the cloud, Nebula offers simple, intuitive and scalable management for all networks.



Highlights

- Intuitive, automated network management interface with continuous feature updates that eliminate training and labor for network implementation, maintenance and support
- Zero-touch provisioning, built-in-multi-tenant, multi-site network management tools accelerate deployment of large networks
- Centralized, unified and on-demand control as well as visibility that reduces additional hardware and software expense
- Free cloud management for the life of the product without the need for ongoing costs
- Access points and switches with NebulaFlex Pro, cybersecurity (UTM)
 devices and Nebula 5G/LTE routers are sold bundled with a Pro Pack
 license so you can experience advanced cloud management features
- A comprehensive networking product portfolio from a single vendor ensures better product compatibility
- Per-device licensing model with flexible subscriptions provides rich diversity and high flexibility for customers of all sizes



Introduction to Nebula cloud-managed networks

Nebula's networking and security products, including access points, switches, security firewalls and 5G/LTE routers are purpose-built for cloud management. They break tradition and come up with easy management, centralized control, auto-configuration, real-time web-based diagnostics, remote monitoring and more.

Through Nebula cloud services, firmware and security signature updates are delivered seamlessly, while secure VPN tunnels can be established automatically between different branches over the web with just a few clicks. Based on a secure infrastructure, Nebula is designed with fault-tolerant properties that enable local networks to keep operating during WAN downtimes.



Nebula cloud-managed networking introduces an affordable, effortless approach for network deployments with high security and scalability to provide complete control over Nebula devices and users.

Nebula cloud-managed networking architecture

Nebula provides a networking paradigm for building and managing networks over the internet in the Software as a Service (SaaS) model. SaaS is defined as a way of delivering software for users to access via the internet rather than local installation. In the Nebula architecture, network functions and management services are pushed to the cloud and delivered as a service that provides instant control to the entire network without wireless controllers and overlay network management appliances.

All Nebula devices are built from the ground up for cloud management with the capability to communicate

with Nebula's cloud control center through the internet. This TLSsecured connectivity between hardware and the cloud provides network-wide visibility and control for network management using the minimal bandwidth.

Over the cloud, thousands of Nebula devices around the world can be configured, controlled, monitored and managed under a single pane of glass. With multi-site network management tools, businesses are allowed to deploy new branches of any size, while administrators are able to make policy changes any time from a central control platform.

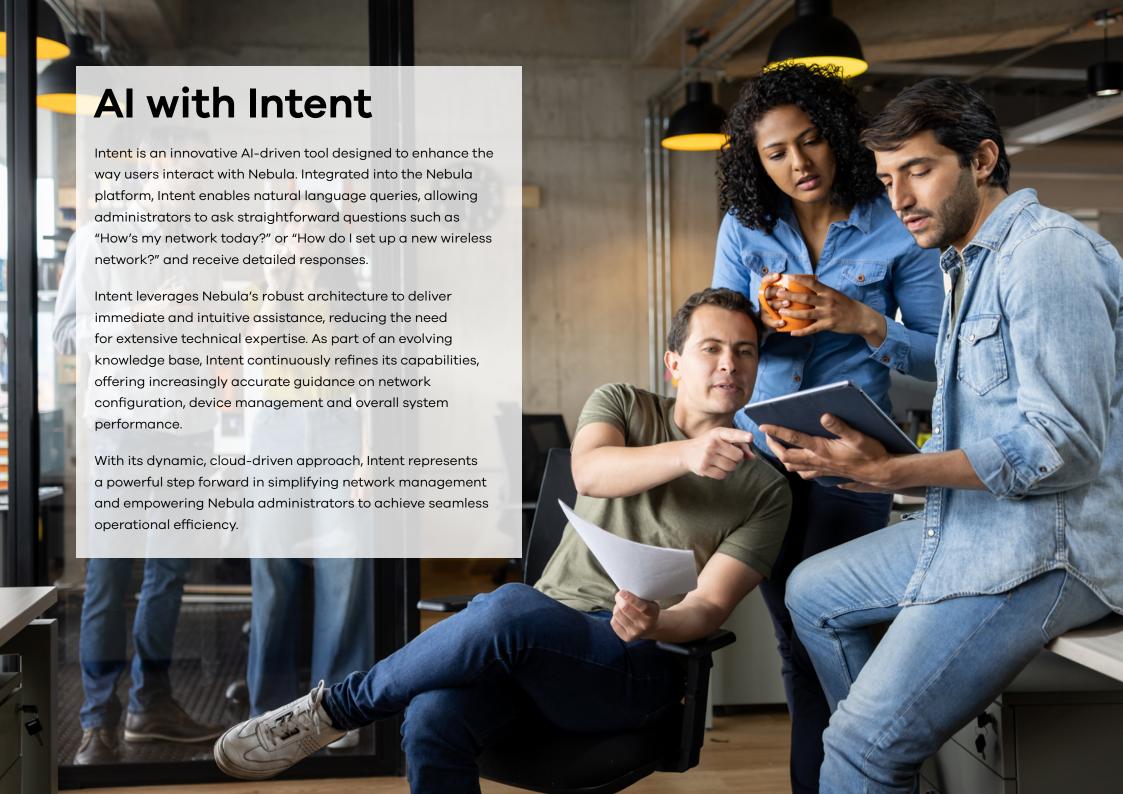
Harnessing the power of Al

Al is transforming product and service development, playing a crucial role in enhancing capabilities and efficiency. In the Nebula ecosystem, AI strengthens its ability to support the growth of its administrators.

Zyxel Networks has long integrated AI into its solutions, collecting and analyzing data from Nebula-managed devices worldwide to automate network performance and security optimization. This process has created a dynamic knowledge base that powers Zyxel Networks' WiFi access points, switches and security appliances. These devices are designed to adapt seamlessly to changing network conditions and workplace environments, ensuring maximum reliability, throughput and protection.

By delivering precise insights and advanced recommendations, AI swiftly identifies potential issues and facilitates the fine-tuning of configurations, reducing complexity and ensuring consistent network performance, saving administrators valuable time.

Incorporating AI into the Nebula framework reinforces its position as a comprehensive, cloud-based solution for efficient and scalable network management.



Nebula Control Center

Our Nebula Control Center (NCC) offers a powerful insight into distributed networks. Its intuitive and web-based interface automatically and continuously illustrates an instant view and analysis of network performance, connectivity and status. Integrated with organization-wide and site-wide management tools, Nebula provides quick and remote access for administrators to ensure the network is up and performing efficiently.

The NCC is also engineered with a number of security tools that provide optimal protection to networks, devices and users. They also deliver the needed information to enforce security and enhance control over the entire Nebula network



Highlights

- Responsive web design and intuitive user interface with light and dark modes
- Multi-tenant and multi-site view and management
- First-time setup wizard
- Role-based administration privileges
- Real-time and historical monitoring/reporting
- Granular device-based information and troubleshooting tools
- Rich site-wide management tools
- Site-based auto and smart configuration tools
- Powerful organization-wide management tools
- Configuration changing alerts
- Misconfiguration protection against disconnecting the NCC
- Login and configuration auditing
- Flexible firmware management
- Multi-lingual management interface

Some features are not included within the free NebulaFlex Pack. Please refer to the license tables.

Features

First-time setup wizard

Nebula's first-time setup wizard helps you create your organization/site and set up an integrated network with only a few simple clicks, getting your devices up and running in minutes.

Role-based administration

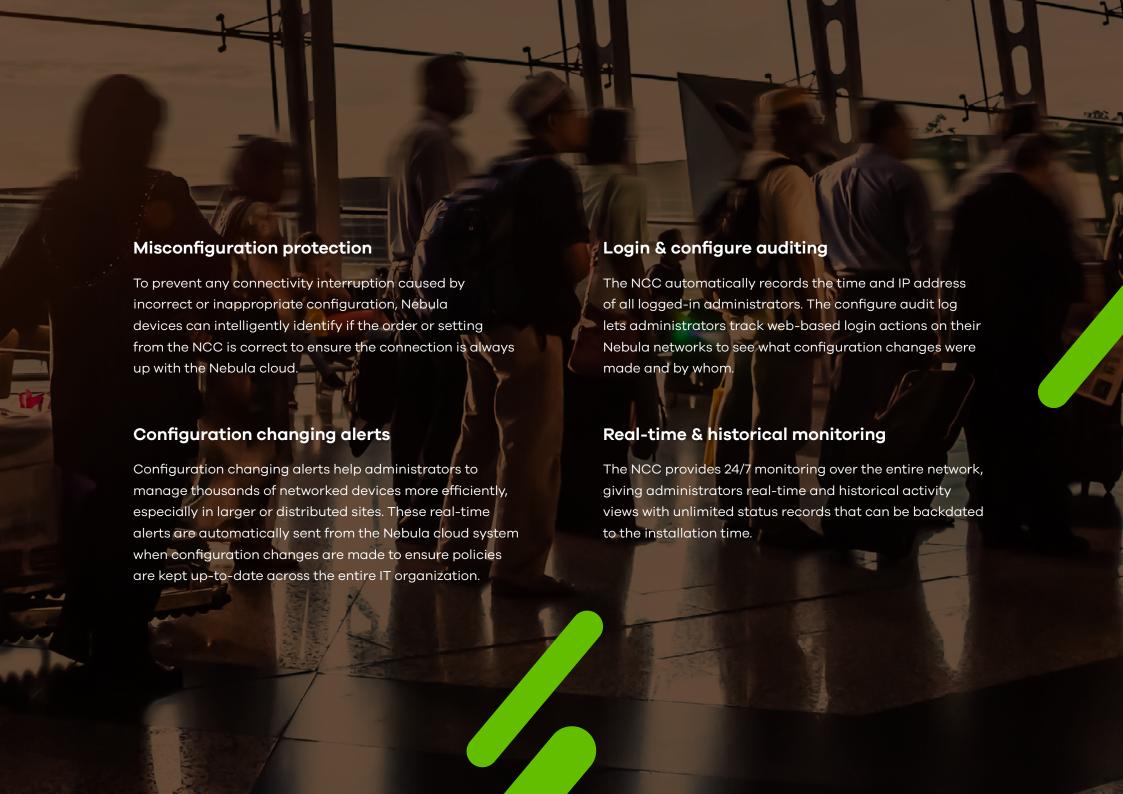
Supervisors can assign different privileges to multiple administrators to manage the network and guest access. Management authority can be specified in the network access control function, to maximize security and avoid accidental misconfiguration.

Organization-wide management tools

Powerful organization-wide features such as organizational overview, configuration backup and restore, configuration template and configuration clone are supported to enable MSP and IT admins to manage their organizations/sites much easier.

Site-wide management tools

Integrated with the feature-rich dashboards, maps, floor plans, automatic visual and actionable network topology & site-based auto & smart configuring tools, the NCC delivers instant network analysis and automatically performs access point authentication, configuration parity checks, switch ports link aggregation and site-to-site VPN.



Nebula mobile app

The Nebula mobile app offers a fast approach to network management, providing an easy method for device registration and an instant view of real-time network status, which is particularly suitable for small business owners with little to no IT skills. With it, you can perform WiFi network configuration, break down usage by device and client, troubleshoot with live tools, check the status of connected Nebula devices and clients at a glance, and scan device QR codes to register large numbers of devices to the NCC all at once.



Highlights

- Installation walk-through wizard for creating organization & site, adding devices (QR code or manually), setting up WiFi networks
- Hardware install guide and LED guide
- Centralized 3-in-1 device status
- Per-device and site-wide usage graph
- Per-device and site-wide PoE consumption
- WiFi login info sharing via mobile phone or QR code
- Switch and gateway ports information
- Check map and photo of device location
- Firmware upgrade schedule
- Enable/disable SSID
- Site-wide client monitoring with action support
- Site-wide application usage analysis with action support
- License overview and inventory
- Create firmware upgrade schedule

- Live troubleshooting tools: reboot, locator LED, switch port power cycle, cable diagnostics, connection test
- Tech support and MSP contact info
- Push notifications device down/up & license-related issues
- Notification center with up to 8 days' alert history



Some features are not included within the free NebulaFlex Pack. Please refer to the license tables.



Partner Program

Designed to empower growth and reward achievements, Zyxel Networks' Partner Program provides the tools and support you need to transition seamlessly into cloud networking companies while adapting to the evolving demands of today's competitive market.

Members gain exclusive access to a range of resources and benefits, including:

 Comprehensive resources: marketing materials, sales guides, product sheets and datasheets to support sales and marketing efforts

• Pre-sales support: if help is required with network design, WiFi setup or product configurations, details can be submitted and tracked through the portal for a seamless experience

• Free training vouchers: expertise can be enhanced with complimentary training opportunities

• **Priority support**: priority technical phone support is available for all partners, and Prime and Elite members can benefit from next-business-day RMA shipment service

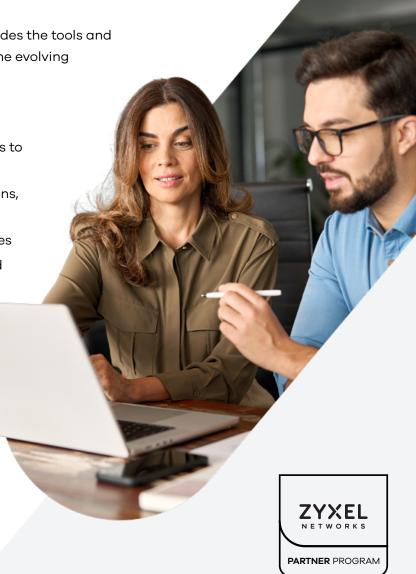
 Exclusive tools: features like Circle access (automated license renewals), pay-as-you-go options and the MSP Pack for streamlined Nebula management are available

 Discounted demo products: select Zyxel Networks products can be purchased by MSPs at special prices to showcase to their customers

• **Deal registration**: deals can be registered through the portal to request additional discounts and receive case-specific support

Tier-based pricing conditions: tailored pricing based on the program tier – Ally, Prime or
 Elite – can be achieved through usual distributors

The program also rewards success as a Zyxel Networks Nebula cloud partner. As more Nebula devices are managed, greater benefits are unlocked, making the partnership more rewarding.



How does the Partner Program work?

The Zyxel Networks Partner Program is structured around four partnership levels: Registered, Ally, Prime and Elite.

To get started, resellers can complete a short registration form at partner.zyxel.cloud. As sales of Zyxel Networks devices grow, so will the opportunity to advance through the tiers, unlocking greater benefits and rewards at each level.









	Registered	Ally	Prime	Elite
Requirements	Registration	10 Nebula devices	250 Nebula devices	650+ Nebula devices
Partner Portal access	Yes	Yes	Yes	Yes
Circle Portal access/auto-renewal licensing	Yes	Yes	Yes	Yes
Zyxel Networks training vouchers	2	4	8	8
NFR discounts available	Yes	Yes	Yes	Yes
Additional to standard discount automatic (hardware)		3%	8%	11%
Additional to standard discount automatic (licensing)		11%	15%	18%
Nebula PAYG			Yes	Yes
Priority tech phone support			Yes	Yes
MSP Pack included			1	3
RMA next business day shipment			Yes	Yes



Product families

Wireless



We provide fast, secure and reliable wireless connectivity for simple to complex environments.

Our products offer stability and efficiency, making them the ideal choice for mobile deployment.

Boost growth with our scalable and featurerich wireless LAN solutions.

Switch



With exceptional speed and reliability, our switches offer a hasslefree setup for small, medium and vertical businesses.

Upgrade now and see the difference with Zyxel Networks.

Security



Our security products protect your network from malware and unauthorized use, while providing uninterrupted operations, robust connectivity and data security.

Our flexible licensing options offer enhanced performance and protection.

LTE & 5G



Our product portfolio of 5G NR, 4G LTE and 3G devices – outdoor, indoor and mobile – is suitable for a wide range of scenarios as well as a variety of network infrastructures

Our devices also free up users from cabled installation and help businesses easily expand their networks.

Wireless





Access points with NebulaFlex/NebulaFlex Pro

Zyxel Networks' NebulaFlex solution allows access points to be used in two modes; it's easy to switch between standalone mode and license-free Nebula cloud management at any time with just a few simple clicks. NebulaFlex provides the flexibility to adapt access points to different needs in an ever-changing environment.

When used with Nebula, you can centrally manage, access real-time network information and gain effortless control over your devices, all under a single intuitive platform without the need to install any software or add additional equipment like a controller.

NebulaFlex Pro also supports triple-mode functionality (standalone, hardware controller and Nebula) to give business clients true flexibility, whatever their project may need.

Highlights

- Enjoy cloud features like zero-touch provisioning and real-time configurations with Nebula
- Easy setup on SSID/SSID schedule/VLAN/rate limiting
- DPPSK (Dynamic Personal Pre-Shared Key) and standard-based
 WPA personal support
- Enterprise wireless security and radio frequency (RF) optimization
- Secure WiFi solution provides remote workers with the same access to the corporate network and resources while being protected with enterprise-grade security
- Connect & Protect (CNP) service provides small business environments with a trusted and application-visible WiFi hotspot network to enhance wireless user protection and experience
- DCS, smart load balancing and client roaming/steering
- Rich captive portal supports Nebula cloud authentication server accounts, Facebook social account login, Facebook WiFi and Voucher
- Supports smart mesh and wireless bridge
- Wireless health monitoring and reporting

Some features are not included within the free NebulaFlex Pack. Please refer to the license tables.

Access points with NebulaFlex product options

	Model: NWA50AX	Model: NWA50AXPRO	Model: NWA55AXE	Model: NWA90AXPRO	Model: WAX300H
	ZYXEL	ZYXEL	27955.	ZYXEL	
Product name	802.11ax (WiFi 6) dual- radio PoE access point	802.11ax (WiFi 6) dual- radio PoE access point	802.11ax (WiFi 6) dual- radio PoE access point	802.11ax (WiFi 6) dual- radio PoE access point	802.11ax (WiFi 6) dual- radio access point
Typical deployment	Small business, entry-level deployments	Small business	Outdoor, entry-level deployments	Small business, enhanced feature set	Pro wall-plate access point
Radio specification	 1x 802.11 b/g/n ax radio 1x 802.11 a/n/ac ax radio AX1800 2x2 MU-MIMO 	 1x 802.11 b/g/n ax radio 1x 802.11 a/n/ac ax radio AX3000 2x2 + 3x3 MU-MIMO 	 1x 802.11 b/g/n ax radio 1x 802.11 a/n/ac ax radio AX1800 2x2 MU-MIMO 	 1x 802.11 b/g/n ax radio 1x 802.11 a/n/ac ax radio AX3000 2x2 MU-MIMO 	 1x 802.11 b/g/n ax radio 1x 802.11 a/n/ac ax radio AX3000 2x2 + 2x2 MU-MIMO
Ethernet ports	1x 100/1000Mbps LAN	1x 1/2.5Gbps LAN	1x 100/1000Mbps LAN	1x 1/2.5Gbps LAN	1x 100/1000M uplink 3x 100/1000Mbps LAN (including 1x PoE PSE)
PoE	802.3at: power draw 16W	802.3at: power draw 20.5W	802.3at: power draw 16W	802.3at: power draw 20.5W	802.3at: power draw 19W
Alt power	DC input: 12VDC 1.5A	DC input: 12VDC 2A	PoE only	DC input: 12VDC 2A	PoE only
Antenna	Internal antenna	Internal antenna	External antenna	Internal antenna	Internal antenna
Datasheet					

	Model: NWA110AX	Model: WAX510D	Model: WAX630S	Model: WAX650S	Model: WAX655E
	ZYXEL	ZYXEL	ZYXEL	ZYXEL	ZYXEL
Product name	802.11ax (WiFi 6) dual- radio PoE access point	802.11ax (WiFi 6) dual- radio unified access point	802.11ax (WiFi 6) dual- radio unified access point	802.11ax (WiFi 6) dual- radio unified access point	802.11ax (WiFi 6) dual- radio outdoor access point
Typical deployment	Small business, entry- level deployments	Medium level wireless deployments	High density and interference-laden indoor environments	High-density and interference-laden indoor environments	High-density and interference-laden outdoor environments
Radio specification	 1x 802.11 b/g/n ax radio 1x 802.11 a/n/ac ax radio AX1800 2x2 + 2x2 MU-MIMO 	 1x 802.11 b/g/n ax radio 1x 802.11 a/n/ac ax radio AX1800 2x2 MU-MIMO 	 1x 802.11 b/g/n ax radio 1x 802.11 a/n/ac ax radio AX3000 4x4 + 2x2 MU-MIMO 	 1x 802.11 b/g/n ax radio 1x 802.11 a/n/ac ax radio AX3600 4x4 + 4x4 MU-MIMO 	 1x 802.11 b/g/n ax radio 1x 802.11 a/n/ac ax radio AX5400 4x4 + 2x2 MU-MIMO
Ethernet ports	1x 100/1000Mbps LAN	1x 100/1000Mbps LAN	1x 1/2.5Gbps & 1x 1Gbps LAN	1x 1/2.5/5Gbps & 1x 1Gbps LAN	1x 1/2.5Gbps LAN
PoE	802.3at: power draw 17W	802.3at: power draw 17W	802.3at: power draw 19.5W	802.3bt: power draw 31W	802.3at: power draw 25.5W
Alt power	DC input: 12VDC 1.5A	DC input: 12VDC 1.5A	DC input: 12VDC 2A	DC input: 12VDC 2.5A	PoE only
Antenna	Internal antenna	Dual optimised antenna (internal)	Adaptive/smart antenna (internal)	Adaptive/smart antenna (internal)	6x N-Type connectors
Datasheet					

Model: NWA220AX-6E

Model: WAX640S-6E



802.11axe (WiFi 6E) dual-radio access point

Small business, entry-level deployments

■ 1x 802.11 b/g/n radio

■ 1x 802.11 a/n/ac ax-6e radio

AXE5400

■ 4x4 + 2x2 MU-MIMO

1x 1/2.5Gbps & 1x 1Gbps LAN

802.3at: power draw 21W

DC input: 12VDC 2A

Internal antenna

802.11axe (WiFi 6E) triple-radio access point

ZYXEL

High-density and interference-laden indoor environments

■ 2.4GHz 3dBi 2x2:2SS

■ 5GHz 6dBi 2x2:2SS

■ 6GHz 6dBi 4x4:4SS

AXE7800

■ 4x4 + 2x2 + 2x2 MU-MIMO

1x 1/2.5Gbps & 1x 1Gbps LAN

802.3bt: power draw 28W

DC input: 12VDC 2.5A

Adaptive/smart antenna (internal)





Product name

Typical deployment

Radio specification

Ethernet ports

PoE

Alt power

Antenna

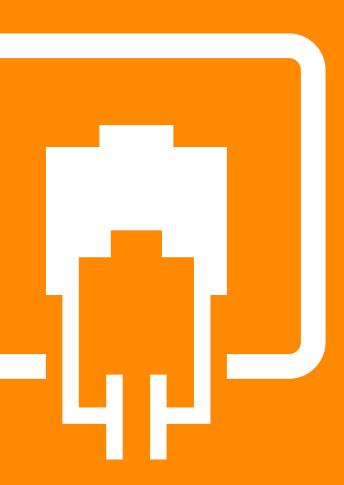
Datasheet



	Model: NWA110BE	Model: NWA210BE	Model: WBE510D	Model: WBE630S
	ZYXEL	ZYXEL	ZYXEL	ZYXEL
Product name	802.11be (WiFi 7) dual-radio NebulaFlex access point	802.11be (WiFi 7) dual-radio NebulaFlex access point	802.11be (WiFi 7) dual-radio unified access point	802.11be (WiFi 7) dual-radio unified access point
Typical deployment	Small business, entry-level deployments	Small business, entry-level deployments	Medium level wireless deployments	High-density and interference-laden indoor environments
Radio specification	 2.4GHz: 3dBi, 2x2:2SS 5GHz / 6GHz: 4dBi, 2x2:2SS BE6500 2x2 + 2x2 MU-MIMO 	 2.4GHz: 3dBi, 2x2:2SS 5GHz / 6GHz: 4dBi, 4x4:4SS BE12300 2x2 + 4x4 MU-MIMO 	 2.4GHz: 3dBi, 2x2:2SS 5GHz / 6GHz: 4dBi, 2x2:2SS BE6500 2x2 + 2x2 MU-MIMO 	 2.4GHz: 3dBi, 2x2:2SS 5GHz / 6GHz: 4dBi, 4x4:4SS BE12300 2x2 + 4x4 MU-MIMO
thernet ports	1x 1/2.5Gbps LAN	2x 1/2.5Gbps LAN	1x 1/2.5Gbps LAN	2x 1/2.5Gbps LAN
PoE	802.3at: power draw 21.5W	802.3at: power draw 21.5W	802.3at: power draw 21.5W	802.3at: power draw 21.5W
Alt power	DC input: 12 VDC 2A	DC input: 12 VDC 2A	DC input: 12 VDC 2A	DC input: 12 VDC 2A
Antenna	Internal antenna	Internal antenna	Dual optimised antenna (internal)	Adaptive/smart antenna (internal)
Datasheet				

	Model: NWA130BE	Model: WBE530	Model: WBE660S
	ZYXEL	ZYXEL	ZYXEL
Product name	802.11be (WiFi 7) triple-radio NebulaFlex access point	802.11be (WiFi 7) triple-radio unified access point	802.11be (WiFi 7) triple-radio unified pro access point
Typical deployment	The modern workplace	Medium level wireless deployments	High-density locations e.g. schools, transportation hubs, home, office & industrial networks
Radio specification	 2.4GHz: 3dBi, 2x2:2SS 5GHz: 4dBi, 2x2:2SS 6GHz: 4dBi, 2x2:2SS BE11000 2x2 + 2x2 + 2x2 MU-MIMO 	 2.4GHz: 3dBi, 2x2:2SS 5GHz: 4dBi, 2x2:2SS 6GHz: 4dBi, 2x2:2SS BE11000 2x2 + 2x2 + 2x2 MU-MIMO 	 2.4GHz: 3dBi, 4x4:4SS 5GHz: 5dBi, 4x4:4SS 6GHz: 5dBi, 4x4:4SS BE22000 4x4 + 4x4 + 4x4 MU-MIMO
Ethernet ports	2x 1/2.5Gbps LAN	2x 1/2.5Gbps LAN	1x 1/2.5/5/10Gbps & 1x 1Gbps LAN
PoE	802.3at: power draw 24W	802.3at: power draw 24W	802.3bt: power draw 41W
Alt power	DC input: 12 VDC 2A	DC input: 12 VDC 2A	DC input: 15VDC 3A (USB Type C)
Antenna	Internal antenna	Internal antenna	Adaptive/smart antenna (interna
Datasheet			

Switches



Switches with NebulaFlex/ NebulaFlex Pro

Zyxel Networks' switches with NebulaFlex allow you to easily swap between standalone and our license-free Nebula cloud management platform at any time with just a few simple clicks.

NebulaFlex Pro switches, which include CX4800, XS3800-28, the 2000 and GS1350 series, come with a one-year NebulaFlex Pro bundle and give you access to advanced features including IGMP technology, IPTV reports providing insights into channel usage, network analytics alerts to optimize network performance and access to any new features being deployed on the NCC.

Meanwhile, the GS1350 series also focuses on surveillance applications, giving you the flexibility to monitor and manage your surveillance network via the cloud.

Both NebulaFlex/NebulaFlex Pro switches protect your investment in wired technology by offering the flexibility to transition to the cloud in your own time, without worrying about additional ongoing licensing costs.

Highlights

- Smart fan and fanless designs offer silent operations in the office
- Check real-time status intuitively by cloud and PoE LED indicators
- Enjoy cloud features like zero-touch provisioning and real-time configurations with Nebula
- Efficient network provisioning with simultaneous multiple port configuration
- User-friendly ACL and PoE schedule configuration
- Intelligent PoE technology and network topology
- RADIUS, static MAC forwarding and 802.1X authentication
- Advanced switch control (port bandwidth control, vendor-based VLAN, IP interfacing & static routing)
- Advanced IGMP multicast functionality and IPTV report
- Auto powered device recovery feature to automatically detect and recover failed powered devices
- GS1350 series surveillance switches are designed with specialized
 PoE features for IP cameras and surveillance reports to monitor and manage the surveillance networks via the cloud

Switches with NebulaFlex product options

	Model: GS1915-8	Model: GS1915-8EP	Model: GS1915-24E	Model: GS1915-24EP
		== (111)	••••••••••••••••••••••••••••••••••••••	
	~=			
Product name	8-port GbE smart managed switch	8-port GbE smart managed PoE switch	24-port GbE smart managed switch	8-port GbE smart managed PoE switch
Switch class	Smart managed NebulaFlex	Smart managed NebulaFlex	Smart managed NebulaFlex	Smart managed NebulaFlex
Total port count	8	8	24	24
Port speed	8x 1G	8x 1G	24x 1G	24x 1G
PoE+/PoE++	-	8x PoE+	-	12x PoE+
Total PoE power budget (watts)	-	60W	-	130W
SFP/SFP+	-	-	-	-
Gigabit combo (SFP/RJ-45)	-	-	-	-
Switching capacity (Gbps)	16	16	48	48
Datasheet				

Model: XMG1915-10E

Model: XMG1915-10EP

Model: XMG1915-18EP

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Product name	8-port 2.5GbE smart managed switch with 2x SFP+ uplink	8-port 2.5GbE smart managed switch with 2x SFP+ uplink	16-port 2.5GbE smart managed PoE switch with 2x SFP+ uplink
Switch class	Smart managed NebulaFlex	Smart managed NebulaFlex	Smart managed NebulaFlex
Total port count	10	10	18
Port speed	8x 1G/2.5G	8x 1G/2.5G	16x 1G/2.5G
PoE+/PoE++	-	8x PoE++	8x PoE++
Total PoE power budget (watts)	-	130W	180W
SFP/SFP+	2x SFP+	2x SFP+	2x SFP+
Gigabit combo (SFP/RJ-45)	-	-	-
Switching capacity (Gbps)	80	80	120
Datasheet			



	Model: GS1350-6HP	Model: GS1350-12HP	Model: GS1350-18HP	Model: GS1350-26HP
				A 20000 COOOC A A 4 4
Product name	5-port GbE smart managed PoE switch with GbE uplink	8-port GbE smart managed PoE switch with GbE uplink	16-port GbE smart managed PoE switch with GbE uplink	24-port GbE smart managed PoE switch with GbE uplink
Switch class	Smart managed NebulaFlex	Smart managed NebulaFlex	Smart managed NebulaFlex	Smart managed NebulaFlex
Total port count	6	12	18	26
Port speed	5x 1G	10x 1G	16x 1G	24x 1G
PoE+/PoE++	2x PoE++ 3x PoE+	8x PoE+	16x PoE+	24x PoE+
Total PoE power budget (watts)	60W	130W	250W	375W
SFP/SFP+	1x SFP	2x SFP	-	-
Gigabit combo (SFP/RJ-45)	-	-	2	2
Switching capacity (Gbps)	12	24	36	52
Datasheet				

Model: GS1920-8HPv2 Model: GS1920-24v2 Model: GS1920-24HPv2 Model: GS1920-48v2 Model: GS1920-48HPv2 #I<u>-----</u>#\$ 24-port GbE smart 8-port GbE smart 24-port GbE smart 48-port GbE smart 48-port GbE smart **Product name** managed PoE switch managed switch managed switch managed switch managed switch Smart managed Smart managed Smart managed Smart managed Smart managed **Switch class** NebulaFlex NebulaFlex NebulaFlex NebulaFlex NebulaFlex 28 Total port count 10 28 50 50 24x 1G 24x 1G 44x 1G 44x 1G Port speed 8x 1G 24x PoE+ PoE+/PoE++ 8x PoE+ 48x PoE+ **Total PoE power** 130W 375W 375W budget (watts) SFP/SFP+ 2x SFP 2x SFP Gigabit combo 2 4 4 4 4 (SFP/RJ-45) **Switching capacity** 20 56 56 100 100 (Gbps) Datasheet

	Model: XGS1935-28	Model: XGS1935-28HP	Model: XGS1935-52	Model: XGS1935-52HP
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Product name	24-port GbE Lite L3 switch with 4x SFP+ uplink	24-port GbE Lite L3 PoE switch with 4x SFP+ uplink	48-port GbE Lite L3 switch with 4x SFP+ uplink	48-port GbE Lite L3 PoE switch with 4x SFP+ uplink
Switch class	NebulaFlex / Lite L3	NebulaFlex / Lite L3	NebulaFlex / Lite L3	NebulaFlex / Lite L3
Total port count	28	28	52	52
Port speed	24x 1G	24x 1G	48x 1G	48x 1G
PoE+/PoE++	-	24x PoE+	-	48x PoE+
Total PoE power budget (watts)	-	375W	-	375W
SFP/SFP+	4x 10Gb SFP+	4x 10Gb SFP+	4x 10Gb SFP+	4x 10Gb SFP+
Gigabit combo (SFP/RJ-45)	-	-	-	-
Switching capacity (Gbps)	128	128	176	176
Datasheet				

	Model: XS1930-10	Model: XS1930-12F	Model: XS1930-12HP	Model: XMG1930-30	Model: XMG1930-30HP

Product name	8-port multi-gigabit smart managed switch with 2x SFP+ uplink	10-port 10G smart managed fiber switch with 2x multi-gigabit ports	8-port multi-gigabit smart managed PoE switch with 2x 10Gbe and 2x SFP+ uplink	24-port 2.5G smart managed L2 switch with 4x 10G multi-gigabit ports and 2x SFP+ uplink	24-port 2.5G smart managed L2 PoE switch with 4x 10G multi-gigabit ports and 2x SFP+ uplink
Switch class	Smart managed NebulaFlex	Smart managed NebulaFlex	Smart managed NebulaFlex	Smart managed NebulaFlex	Smart managed NebulaFlex
Total port count	10	12	12	30	30
Port speed	8x 1G/2.5G/5G/10G	2x 1G/2.5G/5G/10G	2x 1G/2.5G/5G/10G	24x 1G/2.5G + 4x 1G/2.5G/10G	24x 1G/2.5G + 4x 1G/2.5G/10G
PoE+/PoE++	-	-	8x PoE++	-	20x PoE+ (max 2.5G) 4x PoE++ (max 2.5G) 4x PoE++ (max 10G)
Total PoE power budget (watts)	-	-	375W	-	700W
SFP/SFP+	2x 10Gb SFP+	10x 10Gb SFP+	2x 10Gb SFP+	2x 1Gb SFP/10G SFP+	2x 1Gb SFP/10G SFP+
Gigabit combo (SFP/RJ-45)	-	-	-	-	-
Switching capacity (Gbps)	200	240	240	240	240
Datasheet					

	Model: GS2220-10	Model: GS2220-10HP	Model: GS2220-28
			T — HIII HIII H
Product name	8-port GbE L2 switch with GbE uplink	8-port GbE L2 PoE switch with GbE uplink	24-port GbE L2 switch with GbE uplink
Switch class	Layer 2 NebulaFlex Pro	Layer 2 NebulaFlex Pro	Layer 2 NebulaFlex Pro
Total port count	10	10	28
Port speed	8x 1G	8x 1G	24x 1G
PoE+/PoE++	-	8x PoE+	-
Total PoE power budget (watts)	-	180W	-
SFP/SFP+	-	-	-
Gigabit combo (SFP/RJ-45)	2	2	4
Switching capacity (Gbps)	20	20	56
Datasheet			

≣i<u>eeeeeee</u> 24-port GbE L2 PoE switch 48-port GbE L2 switch with 48-port GbE L2 PoE switch **Product name** with GbE uplink GbE uplink with GbE uplink Layer 2 NebulaFlex Pro **Switch class** Layer 2 NebulaFlex Pro Layer 2 NebulaFlex Pro 50 50 Total port count 28 Port speed 24x 1G 44x 1G 44x 1G PoE+/PoE++ 24x PoE+ 48x PoE+ **Total PoE power** 375W 375W budget (watts) SFP/SFP+ 2x SFP 2x SFP Gigabit combo 4 4 4 (SFP/RJ-45) Switching 56 100 100 capacity (Gbps) **Datasheet**

Model: GS2220-50

Model: GS2220-28HP

Model: GS2220-50HP

	Model: XGS2220-30	Model: XGS2220-30HP	Model: XGS2220-30F
Product name	24-port GbE L3 access switch with 6x 10G uplink	24-port GbE L3 access PoE+ switch with 6x 10G uplink (400W)	24-port SFP L3 access switch with 6x 10G uplink
Switch class	Layer 2 NebulaFlex Pro	Layer 2 NebulaFlex Pro	Layer 2 NebulaFlex Pro
Total port count	30	30	30
Port speed	24x 1G 2x 1G/2.5G/5G/10G	24x 1G 2x 1G/2.5G/5G/10G	2x 1G/2.5G/5G/10G
PoE+/PoE++	-	16x PoE+ 8x PoE++ (max 1G) 2x PoE++ (max 10G)	-
Total PoE power budget (watts)	-	400W	-
SFP/SFP+	4x 10G SFP+	4x 10G SFP+	24x 1G SFP 4x 10G SFP+
Gigabit combo (SFP/RJ-45)	-	-	-
Switching capacity (Gbps)	168	168	168
Datasheet			P. 43.0

	Model: XGS2220-54	Model: XGS2220-54HP	Model: XGS2220-54FP
			<u> </u>
Product name	48-port GbE L3 access switch with 6x 10G uplink	48-port GbE L3 access PoE+ switch with 6x 10G uplink (600W)	48-port GbE L3 access PoE+ switch with 6x 10G uplink (960W)
Switch class	Layer 2 NebulaFlex Pro	Layer 2 NebulaFlex Pro	Layer 2 NebulaFlex Pro
Total port count	54	54	54
Port speed	48x 1G 2x 1G/2.5G/5G/10G	48x 1G 2x 1G/2.5G/5G/10G	48x 1G 2x 1G/2.5G/5G/10G
PoE+/PoE++	-	40x PoE+ 8x PoE++ (max 1G) 2x PoE++ (max 10G)	40x PoE+ 8x PoE++ (max 1G) 2x PoE++ (max 10G)
Total PoE power budget (watts)	-	600W	960W
SFP/SFP+	4x 10G SFP+	4x 10G SFP+	4x 10G SFP+
Gigabit combo (SFP/RJ-45)	-	-	-
Switching capacity (Gbps)	216	216	216
Datasheet			



Model: XS3800-28 Model: CX4800-56F 28-port 10GbE L2+ managed switch 48-port 10G L3 aggregation fiber switch **Product name** Switch class Layer 2 Plus NebulaFlex Pro Layer 3 managed NebulaFlex Pro Total port count 28 48 Port speed 4x 1G/2.5G/5G/10G RJ45 48x 10G/25G SFP28 PoE+/PoE++ Total PoE power budget (watts) SFP/SFP+/QSFP28 8x 100G QSFP28 16x 10G SFP+ Gigabit combo 8x 1G/2.5G/5G/10G RJ45/SFP+ (SFP/RJ-45) Switching 560 4.0 Tbps capacity (Gbps) **Datasheet**

Security



Cybersecurity (UTM) devices

Zyxel Networks' cybersecurity (UTM) devices are Nebula cloud managed and further optimize Nebula with holistic security and protection for SMB networks. Our cybersecurity devices are capable of authenticating individuals and devices for all scenarios, especially for remote applications. This enables them to extend and secure your distributed network anywhere, anyhow, easily and affordably. Our cybersecurity devices deliver high performance, ensure comprehensive protection as a self-evolving solution and synchronize your security to fit into all kinds of networks.

Our integrated cloud threat intelligence will automatically stop threats at the network edge by blocking or quarantining, preventing damage to the network. We also provide up-to-the-minute protection with detailed reporting on investigations, threat preventions, active monitoring and high visibility of network activities in today's ever-changing, ever-more-complex network environments.

Highlights

- Higher precision of detection and assurance of multi-layered protection uncover threats
- Collaborating policy enforcement devices and eliminating repetitive logins with Collaborative Detection & Response (CDR)
- Best practices for remote access with secure WiFi and VPN management consolidate and ensure the same network control and security across multiple sites
- Level up security with two-factor authentication (2FA) network access, letting you quickly and easily verify users' identities with users accessing their networks through edge devices
- High assurance multi-layered protection includes IP/URL/DNS reputation filter, app patrol, web filtering, anti-malware and IPS
- Flexibility to switch between on-premise and Nebula cloud management without additional costs
- Enjoy cloud features like zero-touch provisioning and real-time configurations with Nebula

Some features are not included within the free NebulaFlex Pack. Please refer to the license tables.

This matrix with firmware uOS1.31 or later. Actual performance may vary depending on system configuration, network conditions and activated applications.

- *1: Maximum throughput based on RFC 2544 (1,518-byte UDP packets).
- *2: VPN throughput measured based on RFC 2544 (1,424-byte UDP packets).
- *3: Anti-malware (with Express mode) and IPS throughput measured using the industry standard HTTP performance test (1,460-byte HTTP packets). Testing done with multiple flows.
- *4: Maximum sessions measured using the industry standard IXIA IxLoad testing tool.
- *5: Including Gateway-to-Gateway and Client-to-Gateway.
- *6: With Zyxel service license to enable or extend the feature capacity.
- *7: Available in Q2, 2025.
- *8: On USG Flex 50/100/200 PoE is available only with the related HP model.



Reputation filter

Secure WiFi*7

Interface/Ports

Datasheet

	Print			
SPI firewall throughput (Mbps)*1	6,500	10,000	15,000	
VPN protocol – VPN throughput (Mbps)*2	IKEv2, IPSec, SSL - 1,200	IKEv2, IPSec, SSL - 2,000	IKEv2, IPSec, SSL - 3,000	
IPS/UTM (Anti-malware & IDP) throughput (Mbps)*3	2,500 / 1,800	4,500 / 3,000	7,000 / 4,000	
Max. concurrent Ipsec/SSL VPN tunnels*5	100/50	300/150	1,000/500	
Recommended site-to-site IPSec VPN tunnels	50	150	300	
Sandboxing, Anti-malware, IPS, Application patrol, Web filtering, SecuReporter Premium, SPS, SSL Inspection, 2-factor authentication, Geo Enforcer, Collaborative D&R, Device insight*6	Yes	Yes	Yes	
Reputation filter	Yes	Yes	Yes	
Secure WiFi ^{*7}	Yes	Yes	Yes	
Interface/Ports	2x 2.5mGig ethernet 6x 1GbE ethernet	2x 2.5mGig ethernet 2x 2.5mGig/PoE+ ethernet 8x 1GbE ethernet	2x 2.5mGig ethernet 2x 10mGig /PoE+ ethernet 8x 1GbE ethernet 2x 10G SFP+	
PoE+ support (802.3at) ^{*8}	Max 30W	Max 30W	Max 30W	
Datasheet				

This matrix with firmware uOS1.31 or later. Actual performance may vary depending on system configuration, network conditions and activated applications.

- *1: Maximum throughput based on RFC 2544 (1,518-byte UDP packets).
- *2: VPN throughput measured based on RFC 2544 (1,424-byte UDP packets).
- *3: Anti-malware (with Express mode) and IPS throughput measured using the industry standard HTTP performance test (1,460-byte HTTP packets). Testing done with multiple flows.
- *4: Maximum sessions measured using the industry standard IXIA IxLoad testing tool.
- *5: Including Gateway-to-Gateway and Client-to-Gateway.
- *6: With Zyxel service license to enable or extend the feature capacity.
- *7: Available in Q2, 2025.
- *8: On USG Flex 50/100/200 PoE is available only with the related HP model.

5G & LTE



5G/LTE router series

Zyxel Networks' 5G/LTE routers further optimize Nebula with more comprehensive and unified solutions for SMB networks.

We offer a range of 5G Fixed Wireless Access (FWA) and LTE devices in our product portfolio. From indoor to outdoor use, our products are suitable for a wide range of deployment scenarios and a variety of network infrastructures, freeing yourself from cabled installation.

Outdoor routers offer internet connectivity that utilize stateof-the-art wireless network technology and thanks to their outdoor-friendly design, it's now possible to work in harsh environments. Indoor routers can provide a primary or backup connection for your business through 5G/LTE. Enjoy a superior mobile network experience in any environment and easily expand your business with our wireless broadband solutions.

Highlights

- 5G FWA downlink up to 5Gbps
- Supports SA/NSA mode and network slicing function
- Easy installation via free mobile app for finding the best installation signal spot
- Free from wired connection
- Fallover function

The maximum data rate is a theoretical value. The actual data rate depends on the operator and network environment. Some features are not included within the free NebulaFlex Pack. Please refer to the license tables.



	Model: Nebula NR2301		Model: Nebula LTE-3301PLUS	Model: Nebula FWA505	Model: Nebula FWA510	Model: Nebula FWA710	
		Section 4.00 to the section of the s			27043.	ZYXCEL	
Product r	name	5G NR portable router	Nebula 4G LTE indoor router	Nebula 5G FWA indoor router	Nebula 5G FWA indoor router	Nebula 5G FWA outdoor router	
Download data rates		3.4Gbps	300Mbps	4.67Gbps	4.67Gbps	4.67Gbps	
	802.11n 2x2	Yes	Yes	Yes	Yes	Yes*	
	802.11ac 2x2	Yes	Yes	Yes	Yes	No	
WiFi AP	802.11ax 2x2	Yes	No	Yes (AX1800)	Yes (AX3600)	No	
	Number of users	up to 32	up to 32	64	64	No	
Ethernet	GbE LAN	No	4 (LAN1 can be configured for WAN)	2 (LAN 2 can be configured for WAN)	2 (LAN 2 can be configured for WAN)	1 x 2.5Gbps	
	GbE WAN	No	-	-	-	-	
SIM slot		Yes	Micro SIM	Micro SIM	Micro SIM	Micro SIM	
Power		Battery/USB-C	18W	24W	48W	PoE < 15W (est.)	
Ingress protection		-	-	-	-	IP68	
Datasheet		回入55(日 5 <u>年</u> 57(8) 日本25(5)	0 % 0 3 % 0 0 % 3 %				

The maximum data rate is a theoretical value. The actual data rate depends on the operator. * WiFi AP is used for management purpose only.



License information

Per-device license model

Nebula's per-device licensing allows IT teams to maintain various expiry dates across devices, sites or organizations. Each organization can have a single shared expiry date, which will be manageable through our Circle license management platform for channel partners through the subscription alignment feature.

Flexible management license subscription

The NCC offers multiple subscription options to meet customers' needs. Whether you're looking for a complimentary option giving you some peace of mind at no extra cost, more control over and visibility of your network updates, or even the most advanced management of cloud networking, Nebula is here to help you.

However, the devices must maintain the same NCC management license pack type across the organization.

The Nebula MSP Pack also provides cross-organization management functionality, helping MSPs streamline multi-tenant, multi-site, multi-level network deployment & management and deliver superior service to their customers.



MSP Pack

Per-admin account license that includes crossorganization management features and can be used in conjunction with existing packs (Base/ Plus/Pro).



Base Pack

License-free feature set/service with a rich set of management features.



Plus Pack

A new feature set/service that includes the most frequently requested advanced features.



Pro Pack

A full feature set/service with all advanced functionality and management features.

Flexible security license subscription



Gold Security Pack

The Gold Security Pack offers comprehensive security that's tailored to the needs of SMBs operating in hybrid environments, protecting against external threats while maintaining control over internal network usage. Our multi-layered approach ensures no vulnerabilities are left exposed.



Entry Defense Pack

The Entry Defense Pack offers basic safeguards that are easy to implement and manage, preparing you for more advanced protection in the future. Its security features form a solid base for your network's defense, without overwhelming your IT resources.



Connect & Protect (CNP)

Cloud-mode access point license to provide IP reputation filter and app visibility with throttling to ensure a secure and smooth wireless network.



Secure WiFi

USG FLEX license to manage remote access points (RAP) with the support of a secure tunnel to extend the corporate network to the remote workplace.



Nebula trial license

To provide users with the experience of using the full range of advanced features and services in both the Nebula Pro Pack and NSS Security Pack, Nebula provides a 30-day trial license to users when they create a new organization in the NCC*. Registered device-bundled licenses and separately purchased license keys will only be activated and consumed after the trial license period expires.

*All USG FLEX models will have a 30-day free trial license of the Gold Security Pack. If a customer adds a USG FLEX bundled SKU (0102F) with a Gold bundled license to an organization, the NCC will automatically grant & activate a Pro Pack license aligning to that device's Gold license terms as part of the bundled license service.

М	R	С	S	W	Feature name	Base Pack	Plus Pack	Pro Pack
•	✓	✓	✓	✓	Unlimited registration & central management (configuration, monitoring, dashboard, location map & floor plan visual) of Nebula devices	•	•	•
•	✓	✓	✓	✓	Zero touch auto-deployment of hardware/configuration from cloud	•	•	•
•	✓	✓	✓	✓	Over-the-air firmware management	•	•	•
•	✓	✓	✓	✓	IOS and android app (deployment, management and push notifications)	•	•	•
•		✓	✓	✓	Central device and client monitoring (log and stat information) and reporting	24HR (rolling)	7D (rolling)	1YR (rolling)
•	✓	✓	✓	✓	Admin accounts per organization (full access for administration rights)	5	8	NO LIMIT
•		✓		✓	User authentication entries (via built-in Nebula cloud authentication server)	50	100	NO LIMIT
		✓	✓	✓	Network function scheduling (SSI/PoE/firewall rules)	•	•	•
			✓	✓	Mac-based and 802.1x authentication	•	•	•
		✓		✓	Captive portal authentication	•	•	•
•		✓	✓	✓	Cloud saving mode	•		
•	✓	✓	✓	✓	Advanced firmware scheduling (organization/site/device)		•	•
•		✓	✓	✓	Advanced reporting features (including export/email reports/scheduled reports – custom logo)		•	•
•	✓	✓	✓	✓	Automatic network topology (visual and actionable)		•	•
•	✓	✓	✓	✓	Email users and alert notifications		•	•
•				✓	WiFi vouchers (auto-gen vouchers for access/authentication with user-defined time limits)		•	•

M = Management feature (NCC)

R = LTE/5G mobile router feature

C = Cybersecurity feature

S = Switch feature

W = Wireless feature



М	R	С	S	W	Feature name	Base Pack	Plus Pack	Pro Pack
•	✓	✓	✓	✓	Organizational user audit/change logs			•
•		✓	✓	✓	Organizational-wide configuration sync, clone and template			•
•	✓	✓	✓	✓	Configuration backup/restore			•
•	✓	✓	✓	✓	Priority Nebula support request (direct NCC including web chat)			•
•		✓	✓	✓	Open API for ecosystem partner application integration			•
•		✓		✓	Client diagnostics — connection journey based event log			•
				✓	Advanced WiFi AAA security (dynamic personal PSK, Facebook WiFi, dynamic VLAN assignment via NCAS, 3rd party AAA integration)			•
				✓	Advanced WiFi control & management (RSSI threshold setting per AP, export NAT AP traffic log, programmable SSID & PSK)			•
				✓	WiFi health monitoring and report (Al for wireless)			•
			✓		Advanced switch control (port bandwidth control, vendor based VLAN, IP interfacing & static routing)			•
			✓		Switch IPTV feature set (advanced IGMP, IPTV report w. Al alert)			•
			✓		Switch surveillance feature set (monitoring, extended range, auto PD recovery)			•
•		✓			Zyxel CNM SecuReporter			•
		✓			Cybersecurity advanced VPN feature set (VPN topology, VPN traffic usage, smart VPN, L2TP/IPsec VPN client script provisioning)			•
		✓		✓	Collaborative detection & response (CDR) with automatically respond action (USG FLEX & ATP series only)			•

M = Management feature (NCC)

C) **S** = Switch feature

R = LTE/5G mobile router feature

W = Wireless feature

C = Cybersecurity feature

Service-related information

Nebula forum

The Nebula forum is a great place where users can come together to share tips and ideas, get problems solved and learn from fellow users around the world. Join the conversations to know more about what Nebula products can do. Visit the Nebula forum via our <u>Community website</u> to explore more.

The Support Request channel allows users to submit request tickets directly on NCC. It is a tool that provides an easy way for users to send and track an inquiry for help on a problem, request or service, to find answers to their questions quickly. The request will go directly to the Nebula support team to be reviewed and followed by a dedicated group until the proper resolutions are found.





Corporate sustainability is integral to Zyxel Group's mission, earning us accolades since 2009 for sustainable products and corporate responsibility. Our strategy focuses on three dimensions: Green Supply Chain, Green Operations and Green Products. Collaborating with employees, customers and suppliers, we drive environmental initiatives for a sustainable future.

Key initiatives include the Product Carbon Footprint Inventory Plan, which incorporates life cycle thinking into product design to minimize environmental impacts.

Additionally, our advanced carbon calculation platform and assessment tools, launched in 2021, provide data-driven insights to support our net-zero emissions commitment.

To complement these efforts, Zyxel Networks' green marketing strategy combines e-commerce platforms with physical store integration, offering sustainable solutions through Zyxel Marketplace and the European Zyxel Store.



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