



Unlock networking possibilities with cloud

January 2026

Nebula cloud networking
Solution guide



hello
nebula.

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 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 routers are purpose-built for cloud management. They break tradition and come 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 TLS-secured

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 AI

AI 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.

AI with Intent

Intent is an innovative AI-driven tool designed to enhance the way users interact with Nebula. Integrated into the Nebula platform, Intent enables natural language queries, allowing administrators to ask straightforward questions such as “How’s my network today?” or “How do I set up a new wireless network?” and receive detailed responses.

Intent leverages Nebula’s robust architecture to deliver immediate and intuitive assistance, reducing the need for extensive technical expertise. As part of an evolving knowledge base, Intent continuously refines its capabilities, offering increasingly accurate guidance on network configuration, device management and overall system performance.

With its dynamic, cloud-driven approach, Intent represents a powerful step forward in simplifying network management and empowering Nebula administrators to achieve seamless operational efficiency.





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.

Misconfiguration protection

To prevent connectivity interruptions caused by incorrect or inappropriate configurations, Nebula devices intelligently verify that settings from the NCC are valid, ensuring they remain reliably connected to the Nebula cloud.

Configuration changing alerts

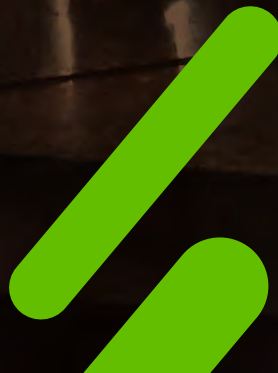
Configuration changing alerts help administrators to manage thousands of networked devices more efficiently, especially in larger or distributed sites. These real-time alerts are automatically sent from the Nebula cloud system when configuration changes are made to ensure policies are kept up-to-date across the entire IT organization.

Login & configure auditing

The NCC automatically records the time and IP address of all logged-in administrators. The configure audit log lets administrators track web-based login actions on their Nebula networks to see what configuration changes were made and by whom.

Real-time & historical monitoring

The NCC provides 24/7 monitoring over the entire network, giving administrators real-time and historical activity views with unlimited status records that can be backdated to the installation time.



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) and 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 and 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.

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 feature-rich wireless LAN solutions.

Switches



Our high-performance switches deliver exceptional speed, reliability and hassle-free setup.

They provide seamless connectivity for small and medium-sized business environments, ensuring smarter, more efficient network performance.

Cybersecurity



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.

FWA 5G



Our product portfolio of 5G 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, third-party portals and vouchers
- 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 PRO	Model: NWA55AXE	Model: NWA90AX PRO	Model: NWA210AXv2
				
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
Typical deployment	Small business	Outdoor, entry-level deployments	Small business, enhanced feature set	Small business, high-density environments
Radio specification	■ 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 ■ AX5400 ■ 2x2:2 + 4x4:4 MU-MIMO
Ethernet ports	1x 1/2.5Gbps LAN	1x 1Gbps LAN	1x 1/2.5Gbps LAN	2x 1/2.5Gbps LAN
PoE	802.3at: power draw 20.5W	802.3at: power draw 16W	802.3at: power draw 20.5W	802.3at: power draw 21.5W
Alt power	DC input: 12V DC 2A	PoE only	DC input: 12V DC 2A	USB Type C 30W
Antenna	Internal antenna	External antenna	Internal antenna	Internal antenna
Datasheet				

	Model: WAX300H	Model: WAX610D	Model: WAX630S	Model: WAX655E
				
Product name	802.11ax (WiFi 6) dual-radio access point	802.11ax (WiFi 6) dual-radio unified pro access point	802.11ax (WiFi 6) dual-radio unified access point	802.11ax (WiFi 6) dual-radio outdoor access point
Typical deployment	Pro wall-plate access point	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 ■ AX3000 ■ 2x2 + 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 ■ AX3000 ■ 4x4 + 2x2 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 100/1,000Mbps uplink 3x 100/1,000Mbps LAN (including 1x PoE PSE)	1x 1/2.5Gbps & 1x 1Gbps LAN	1x 1/2.5Gbps & 1x 1Gbps LAN	1x 1/2.5Gbps LAN
PoE	802.3at: power draw 19W	802.3at: power draw 19.5W	802.3at: power draw 19.5W	802.3at: power draw 25.5W
Alt power	PoE only	DC input: 12V DC 2A	DC input: 12V DC 2A	PoE only
Antenna	Internal antenna	Dual-optimized antenna (internal)	Adaptive/smart antenna (internal)	6x N-type connectors
Datasheet				

	Model: NWA50BE	Model: NWA50BE PRO	Model: NWA90BE	Model: NWA90BE PRO
				
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 NebulaFlex access point	802.11be (WiFi 7) dual-radio NebulaFlex access point
Typical deployment	Small business, entry-level deployments	Small business, entry-level deployments	Small business, entry-level deployments	Small business, entry-level deployments
Radio specification	■ 2.4GHz: 2dBi, 2x2:2SS ■ 5GHz: 3dBi, 2x2:2SS ■ BE5100 ■ 2x2 + 2x2 MU-MIMO	■ 2.4GHz: 2dBi, 2x2:2SS ■ 5GHz / 6GHz: 3dBi, 4x4:4SS ■ BE6500 ■ 2x2 + 4x4 MU-MIMO	■ 2.4GHz: 2dBi, 2x2:2SS ■ 5GHz: 3dBi, 2x2:2SS ■ BE5100 ■ 2x2 + 2x2 MU-MIMO	■ 2.4GHz: 2dBi, 2x2:2SS ■ 5GHz / 6GHz: 3dBi, 4x4:4SS ■ BE6500 ■ 2x2 + 4x4 MU-MIMO
Ethernet ports	1x 1/2.5Gbps LAN	1x 1/2.5Gbps LAN	1x 1/2.5Gbps LAN	1x 1/2.5Gbps LAN
PoE	802.3at: power draw 16W	802.3at: power draw 16W	802.3at: power draw 16W	802.3at: power draw 16W
Alt power	DC input: 12V DC 1.5A	DC input: 12V DC 1.5A	DC input: 12V DC 1.5A	DC input: 12V DC 1.5A
Antenna	Internal antenna	Internal antenna	Internal antenna	Internal antenna
Datasheet				



Model: NWA30BE

Model: NWA55BE



Product name

802.11be (WiFi 7) dual-radio desktop NebulaFlex access point

802.11be (WiFi 7) dual-radio NebulaFlex outdoor access point

Typical deployment

Compact environments e.g. small cafés, retail counters and personal studios

Harsh environments requiring high-performance outdoor coverage

Radio specification

- 2.4GHz: 2dBi, 2x2:2SS
- 5GHz: 3dBi, 2x2:2SS
- BE5100
- 2x2 + 2x2 MU-MIMO

- 2.4GHz: 2dBi, 2x2:2SS
- 5GHz: 3dBi, 2x2:2SS
- BE5100
- 2x2 + 2x2 MU-MIMO

Ethernet ports

1x 1/2.5GbE LAN

1x 1/2.5GbE LAN

PoE

DC input only

802.3at: power draw 24W

Alt power

DC input 12V DC, 1.5A

PoE only

Antenna

Fixed external antenna

Detachable external antenna

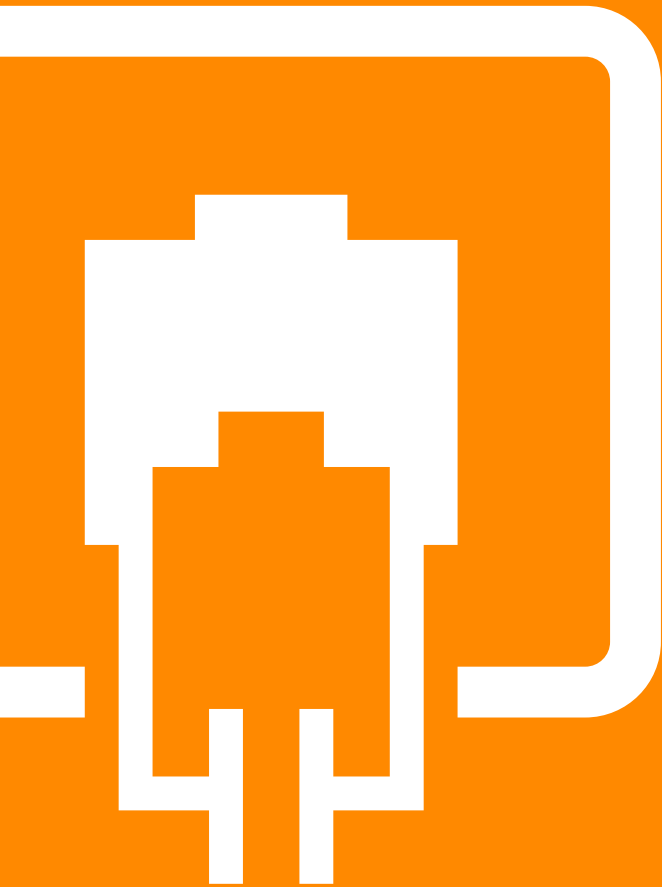
Datasheet



	Model: NWA110BE	Model: NWA210BE	Model: WBE510D	Model: WBE630S
				
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
Ethernet 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	USB Type C 30W	USB Type C 30W	USB Type C 30W	USB Type C 30W
Antenna	Internal antenna	Internal antenna	Dual optimised antenna (internal)	Adaptive/smart antenna (internal)
Datasheet				

	Model: NWA130BE	Model: WBE530	Model: WBE660S	Model: IAP500BE
				
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	802.11be (WiFi 7) 4-stream dual-radio NebulaFlex Pro industrial access point
Typical deployment	The modern workplace	Medium level wireless deployments	High-density locations e.g. schools, transportation hubs, home, office & industrial networks	SMB manufacturing, processing and industrial operations
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	■ 2.4GHz: 2dBi, 2x2:2SS ■ 5GHz: 3dBi, 2x2:2SS ■ BE5000
Ethernet ports	2x 1/2.5Gbps LAN	2x 1/2.5Gbps LAN	1x 1/2.5/5/10Gbps & 1x 1Gbps LAN	1x 1/2.5GbE LAN
PoE	802.3at: power draw 24W	802.3at: power draw 24W	802.3bt: power draw 41W	802.3at: power draw 24W
Alt power	USB Type C 30W	USB Type C 30W	USB Type C 45W	DC input: 12V-48V redundant dual input
Antenna	Internal antenna	Internal antenna	Adaptive/smart antenna (internal)	External antenna
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



CX4800



CX4800

Features may vary per model.

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

Switches with NebulaFlex product options

	Model: GS1915-8	Model: GS1915-8EP	Model: GS1915-24E	Model: GS1915-24EP
				
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

Model: XMG2230-28HP

Model: XMG2230-52HP



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	24-port 2.5GbE Lite L3 access smart managed switch with 4x SFP+ uplink	32-port GbE, 16-port 2.5GbE Lite L3 smart managed switch with 4x SFP+ uplink
Switch class	Smart managed NebulaFlex	Smart managed NebulaFlex	Smart managed NebulaFlex	Smart managed NebulaFlex	Smart managed NebulaFlex
Total port count	10	10	18	28	52
Port speed	8x 1G/2.5G	8x 1G/2.5G	16x 1G/2.5G	24x 1G/2.5G	32x 1G 16x 2.5G
PoE+/PoE++	-	8x PoE++	8x PoE++	24x PoE++	48x PoE++
Total PoE power budget (watts)	-	130W	180W	Internal AC input: 700W External DC input: 1,440W	Internal AC input: 960W External DC input: 2,400W
SFP/SFP+	2x SFP+	2x SFP+	2x SFP+	4x 1Gb SFP/10G SFP+	4x 1Gb SFP/10G SFP+
Gigabit combo (SFP/RJ-45)	-	-	-	-	-
Switching capacity (Gbps)	80	80	120	200	224
Datasheet					

	Model: GS1350-6HP	Model: GS1350-12HP	Model: GS1350-18HP	Model: GS1350-26HP
				
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



Product name	8-port GbE smart managed PoE switch	24-port GbE smart managed switch	24-port GbE smart managed switch	48-port GbE smart managed switch	48-port GbE smart managed switch
Switch class	Smart managed NebulaFlex	Smart managed NebulaFlex	Smart managed NebulaFlex	Smart managed NebulaFlex	Smart managed NebulaFlex
Total port count	10	28	28	50	50
Port speed	8x 1G	24x 1G	24x 1G	44x 1G	44x 1G
PoE+/PoE++	8x PoE+	-	24x PoE+	-	48x PoE+
Total PoE power budget (watts)	130W	-	375W	-	375W
SFP/SFP+	-	-	-	2x SFP	2x SFP
Gigabit combo (SFP/RJ-45)	2	4	4	4	4
Switching capacity (Gbps)	20	56	56	100	100
Datasheet					

	Model: XGS1935-28	Model: XGS1935-28HP	Model: XGS1935-52	Model: XGS1935-52HP
				
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	Lite L3 managed NebulaFlex	Lite L3 managed NebulaFlex	Lite L3 managed NebulaFlex	Lite L3 managed NebulaFlex
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
			
Product name	8-port multi-gigabit Lite L3 smart managed switch with 2x SFP+ uplink	10-port 10G Lite L3 smart managed fiber switch with 2x multi-gigabit ports	8-port multi-gigabit Lite L3 smart managed PoE switch with 2x 10Gbe and 2x SFP+ uplink
Switch class	Lite L3 managed NebulaFlex	Lite L3 managed NebulaFlex	Lite L3 managed NebulaFlex
Total port count	10	12	12
Port speed	8x 1G/2.5G/5G/10G	2x 1G/2.5G/5G/10G	2x 1G/2.5G/5G/10G
PoE+/PoE++	-	-	8x PoE++
Total PoE power budget (watts)	-	-	375W
SFP/SFP+	2x 10Gb SFP+	10x 10Gb SFP+	2x 10Gb SFP+
Gigabit combo (SFP/RJ-45)	-	-	-
Switching capacity (Gbps)	200	240	240
Datasheet			

	Model: GS2220-10	Model: GS2220-10HP	Model: GS2220-28
			
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			

	Model: GS2220-28HP	Model: GS2220-50	Model: GS2220-50HP
			
Product name	24-port GbE L2 PoE switch with GbE uplink	48-port GbE L2 switch with GbE uplink	48-port GbE L2 PoE switch with GbE uplink
Switch class	Layer 2 NebulaFlex Pro	Layer 2 NebulaFlex Pro	Layer 2 NebulaFlex Pro
Total port count	28	50	50
Port speed	24x 1G	44x 1G	44x 1G
PoE+/PoE++	24x PoE+	-	48x PoE+
Total PoE power budget (watts)	375W	-	375W
SFP/SFP+	-	2x SFP	2x SFP
Gigabit combo (SFP/RJ-45)	4	4	4
Switching capacity (Gbps)	56	100	100
Datasheet			



	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 3 NebulaFlex Pro	Layer3 NebulaFlex Pro	Layer 3 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			

	Model: XGS2220-54	Model: XGS2220-54HP	Model: XGS2220-54FP
			
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 3 NebulaFlex Pro	Layer 3 NebulaFlex Pro	Layer 3 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



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

Cybersecurity





Cybersecurity 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 multi-layered protection to effectively uncover threats
- Best practices for remote access with secure WiFi and VPN management, consolidating and ensuring the same network control and security across multiple sites
- Enhanced security with two-factor authentication (2FA) network access, allowing quick and easy verification of users' identities through edge devices
- High assurance multi-layered protection including IP/URL/DNS reputation filtering, app patrol, web filtering, anti-malware and IPS
- Smart Sync for seamless real-time synchronization between cloud and on-premises protection, maintaining unified security even when cloud access isn't available
- Zero-touch provisioning and pre-configured settings in Nebula, so your cybersecurity device is fully set up and ready before deployment
- Real-time configuration and management through Nebula for easy control and monitoring across your network



USG FLEX 500H



Security Vendor of the Year



USG FLEX 50H



USG LITE 60AX



USG FLEX 700H



USG FLEX H series



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

Tolly test reports

In 2025, Tolly – one of the world’s leading providers of independent validation and verification services for vendors of ICT products, component and services – conducted a comprehensive evaluation (report #225150) comparing the anti-malware performance of our USG FLEX H series (USG FLEX 100H and USG FLEX 500H) and Ubiquiti’s Dream Machine Special Edition (UDM SE). They also conducted a second test (report #225151) comparing the anti-malware efficacy of our USG FLEX 100H with SonicWALL’s TZ270.

The findings were clear and consistent: the USG FLEX H models delivered significantly stronger threat-prevention capabilities, blocking an average of almost 92% of malware tests. In contrast, the Dream Machine Special Edition averaged 2% during the testing period.

For the USG FLEX H devices, Tolly had applied the Gold UTM license pack and anti-malware protection, enabling features such as sandboxing, intrusion detection, application control, content filtering and anti-spam. For Ubiquiti’s device, they enabled CyberSecure by Proofpoint, Cloudflare feature and Intrusion Prevention. Signature update was on the test date in 2025 and the detection mode was set to ‘Notify and Block’. All active detections categories were enabled other than ICMP as no ICMP test traffic was included.

“ The anti-malware efficacy of the Zyxel USG FLEX H-Series was significantly higher than that of the Ubiquiti Dream Machine (UDM).

Tolly test report
#225150, 2025

Anti-malware efficacy (detection and blocking rate)

In total, 6,426 malware samples were tested over a 14-day period in July 2025.

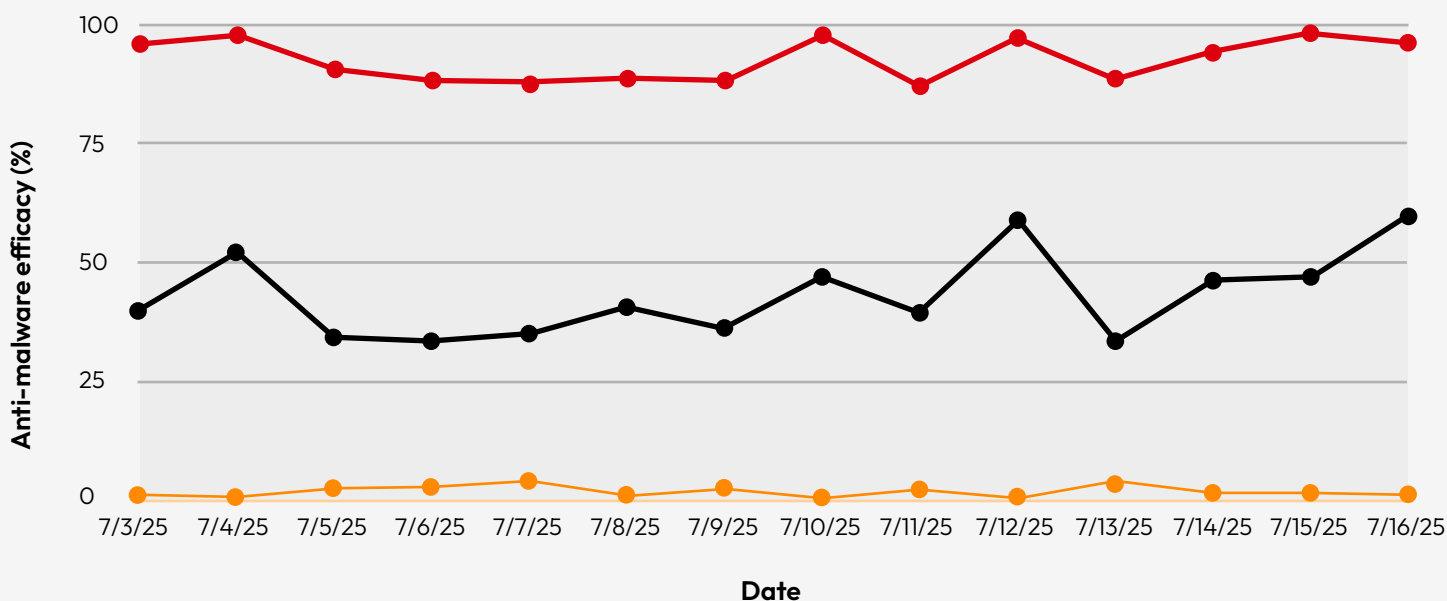
	USG FLEX 500H	USG FLEX 100H	Ubiquiti UDM SE	SonicWALL TZ270
Total number of blocked malware samples	5,886	5,902	131	2,687
% blocked	91.6%	91.8%	2.0%	41.8%

The second Tolly test compared the anti-malware efficacy of the USG FLEX 100H with SonicWALL TZ270 but this time also evaluated the subscription license. Tolly assessed the USG FLEX 100H firewall with the Gold Security UTM Bundle license against the SonicWall TZ270 with the Advanced Protection Security Suite license in terms of anti-malware efficacy, URL filtering efficacy, prices and other key features.

Over the same test period with the same number of malware samples, the results were again convincing. The SonicWALL TZ270 blocked nearly 42% of the samples in comparison to almost 92% by the USG FLEX 100H.

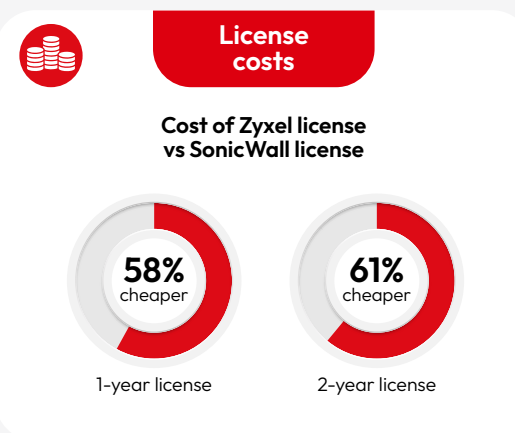
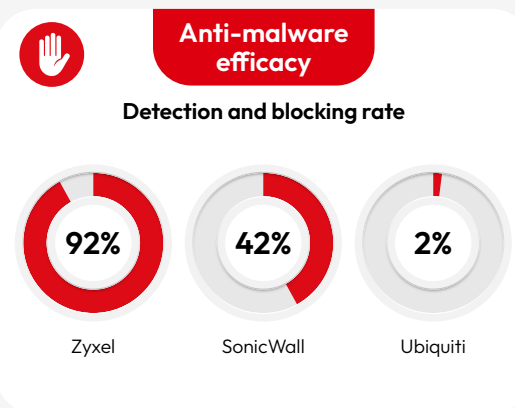
Tolly test reports (continued)

Anti-malware efficacy (detection and blocking rate) results



- Zyxel USG FLEX H series*
- Ubiquiti Dream Machine Special Edition (UDM SE)
- SonicWall TZ270

* Tolly tested USG FLEX 100H and USG FLEX 500H; the results were almost identical.
Source: Tolly, 2025



Tolly test reports (continued)

The #225151 test also reviewed malicious URL detection rates. With an average detection rate of nearly 85%, the Zyxel USG FLEX 100H performed significantly better than the SonicWall TZ270, which achieved an average detection rate of 27.1%.

Tolly's analysis also highlighted a significant cost advantage for the USG FLEX 100H, with renewal prices 58% lower for a one-year license and 61% lower for a two-year license.

Both devices offer comprehensive security features, but the USG FLEX 100H supports IP reputation filtering for email and other services, blocking botnet command-and-control traffic and malicious website IPs. The SonicWall TZ270 limits IP reputation functionality to email anti-spam protection. Additionally, the SonicWall TZ270 requires a separate license for support and cloud management, whereas these capabilities are included at no extra cost with Zyxel's Gold Security UTM bundle.



Zyxel USG FLEX 100H provided higher anti-malware and URL filtering efficacy with a lower subscription price.

Tolly test report

#225151, 2025

VIEW THE FULL REPORTS

- Zyxel USG FLEX H-Series vs. Ubiquiti Dream Machine Firewall/gateway Anti-malware Efficacy Evaluation: www.tolly.com/publications/225150



- Zyxel USG FLEX 100H vs. SonicWall TZ270 Firewall Anti-malware Efficacy and Subscription License Evaluation: www.tolly.com/publications/225151



	Model: USG LITE 60AX	Model: USG FLEX 50H/HP	Model: USG FLEX 100H/HP
			
SPI firewall throughput (Mbps)^{*1}	2,000	2,000	4,000
VPN protocol – VPN throughput (Mbps)^{*2}	IKEv2, IPSec – 300	IKEv2, IPSec, SSL – 500	IKEv2, IPSec, SSL – 900
IPS/UTM (Anti-malware & IDP) throughput (Mbps)^{*3}		1,000/600	1,500/1,000
Max. concurrent Ipvsec/SSL VPN tunnels^{*5}	5/-	20/15	50/25
Recommended site-to-site IPSec VPN tunnels	3	5	20
Sandboxing, Anti-malware, IPS, Application patrol, Web filtering, SecuReporter Premium, SPS, SSL Inspection, 2-factor authentication, Geo Enforcer, Collaborative D&R, Device insight^{*6}	Malware prevention Intrusion Blocker Dark Web Blocker (TOR)	Yes	Yes
Reputation filter		Yes	Yes
Secure WiFi		Yes	Yes
Interface/Ports	2x 2.5mGig ethernet Mbps (WAN+LAN) 4x 1GbE ethernet WiFi AP 802.11 ax	5x 1GbE ethernet	8x 1GbE ethernet
PoE+ support (802.3at)^{*7}	-	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: On USG Flex 50/100/200 PoE is available only with the related HP model.

	Model: USG FLEX 200H/HP	Model: USG FLEX 500H	Model: USG FLEX 700H
			
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 Isec/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	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)*⁷	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).

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*6: With Zyxel service license to enable or extend the feature capacity.

*7: On USG Flex 50/100/200 PoE is available only with the related HP model.



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 cross-organization management features and can be used in conjunction with existing packs (Base/Plus/Pro).



Pro Pack

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



Plus Pack

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



Base Pack

License-free feature set/service with a rich set of 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

The Connect & Protect (CNP) license delivers security at the edge of your network, blocking phishing, malware and malicious sites through advanced IP reputation and DNS filtering. Applied per access point, it provides flexible, device-specific protection to eliminate exposure across your wireless environment.



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.

M	R	C	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

M	R	C	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, 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 (AI for wireless)			●
			✓		Advanced switch control (port bandwidth control, vendor based VLAN, IP interfacing & static routing)			●
			✓		Switch IPTV feature set (advanced IGMP, IPTV report w. AI 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)

R = LTE/5G mobile router feature

C = Cybersecurity feature

S = Switch feature

W = Wireless 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 [Community website](#) 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.



Thinking sustainability

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.



SCIENCE
BASED
TARGETS

DRIVING AMBITIOUS CORPORATE CLIMATE ACTION



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