



Unlock Networking Possibilities with Cloud

Nebula Secure Cloud Networking Solution
Solution Guide



We help you make everything easier



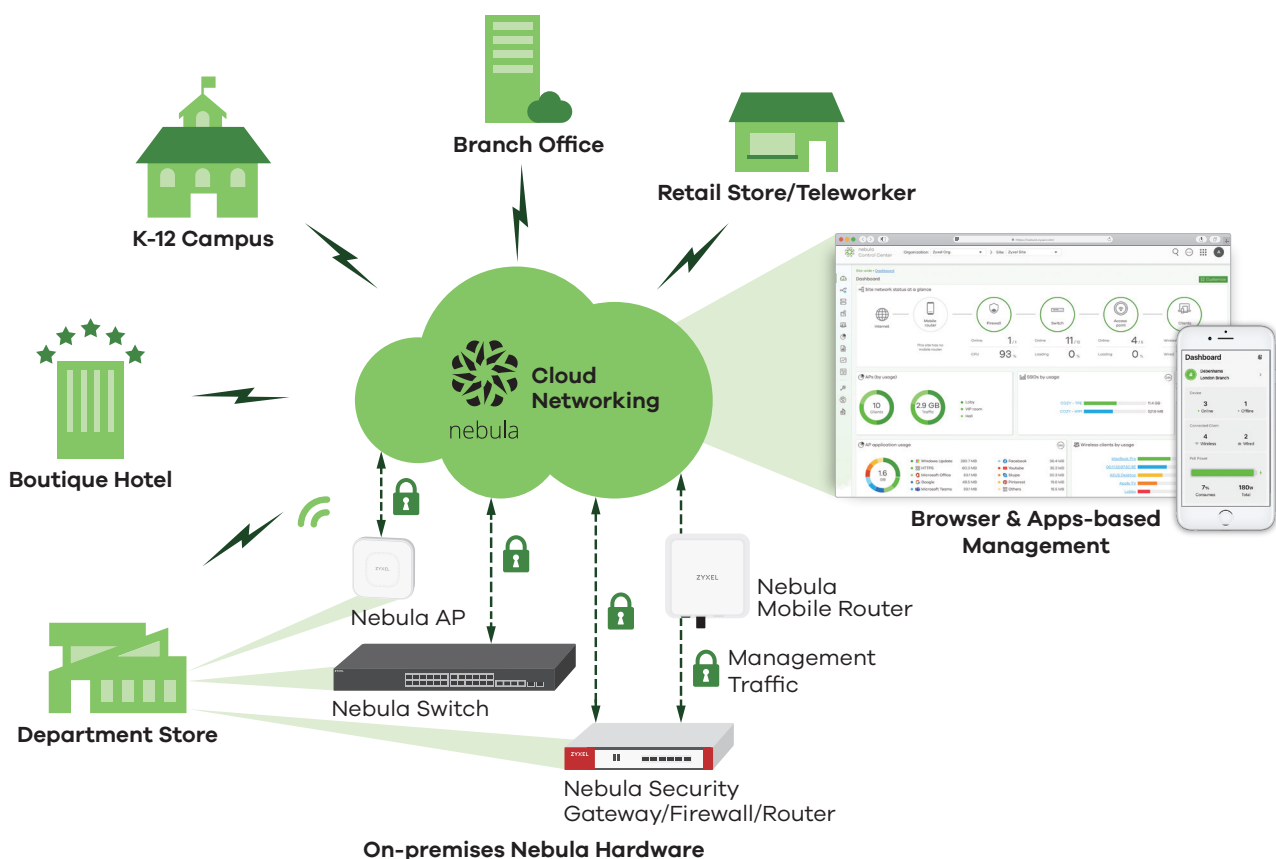
Overview

Nebula secure cloud networking solution provides cloud-based, centralized control and visibility over all Nebula wired, wireless, security firewall, security router, and mobile router hardware — all without the cost and complexity of on-site control equipment or

overlay management systems. With 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 as well as continuous feature updates that eliminate training and labor for network implementation, maintenance and support
- Zero-touch provisioning, built-in multi-tenant, multisite network management tools accelerate deployment of large networks
- Centralized, unified and on-demand control as well as visibility that reduce capital expense for hardware and software
- Free cloud management for the life of the product without the need for ongoing costs
- Access points and switches with NebulaFlex Pro, USG FLEX firewalls (0102 bundled SKUs), ATP firewalls, USG FLEX H firewalls (0102 bundled SKUs), and Nebula 5G/4G routers are sold with bundled Professional Pack license for you to experience advanced cloud management features
- A comprehensive networking and security 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



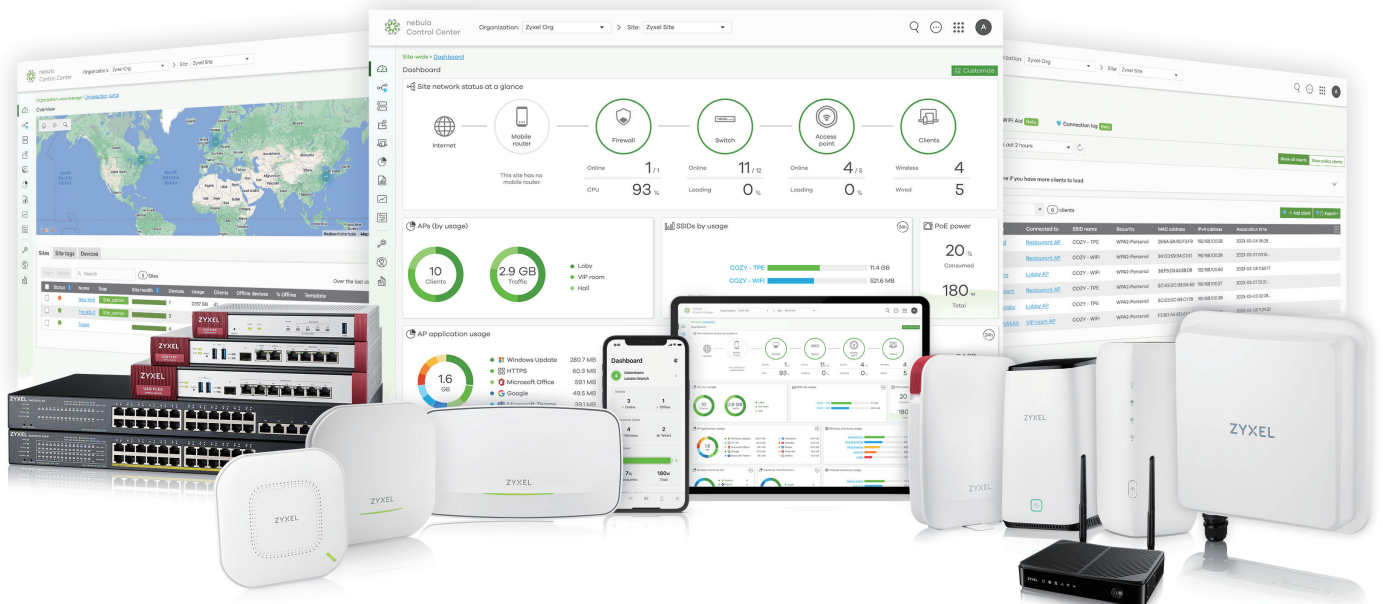
Introduction to Nebula secure cloud networking solution

Nebula's networking and security products, including access points, switches, security firewalls, security router and 5G/4G routers, are purpose-built for cloud management. They break the traditions and come up with easy management, centralized control, auto-configuration, real-time Web-based diagnostics, remote monitoring and more.

The Nebula cloud managed networking introduces an affordable, effortless approach for network deployments with high security and scalability to provide completely control over Nebula devices and users. When an organization grows from small sites to

massive, distributed networks, the Nebula hardware with cloud-based self-provisioning enables easy, quick and plug-n-play deployment to multiple locations without IT professionals.

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 properly in WAN downtimes.



Nebula secure cloud networking solution architecture

The Nebula Cloud provides a networking paradigm for building and managing networks over the Internet in the Software as a Service model. Software as a Service (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.

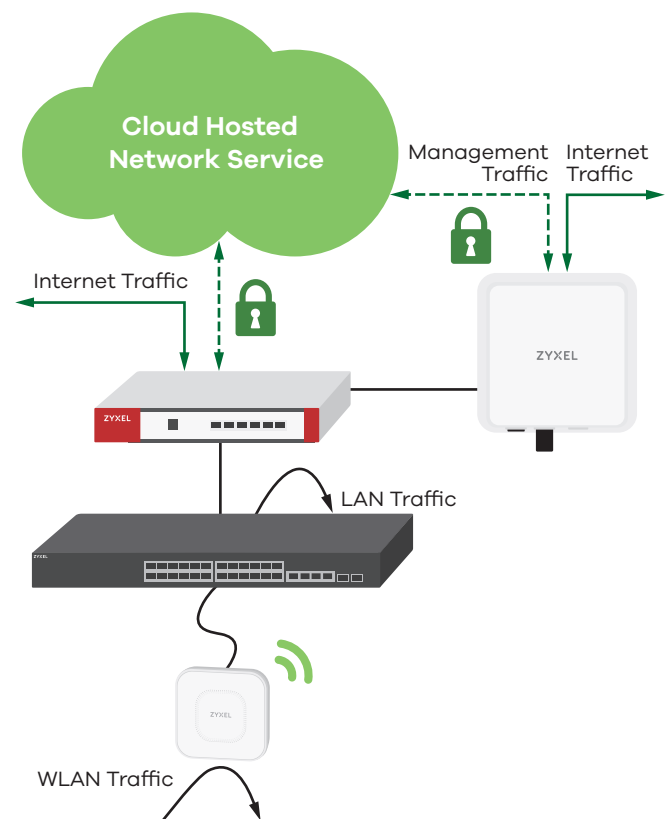
All Nebula devices are built from the ground up for cloud management with the capability to communicate with Nebula's cloud control center through the Internet. This TLS-secured connectivity between hardware and the cloud provides network-wide visibility and control for network management using the minimal 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.

Data Privacy and Out-of-band Control Plane

The Nebula service uses the infrastructure and services built upon the Amazon Web Service (AWS), so all Nebula security details can be referred to AWS Cloud Security. Nebula is committed to data protection, privacy and security as well as compliance with applicable regulatory frameworks in the world. Nebula's technical architecture along with its internal administrative and procedural safeguards can assist customers with design and deployment of cloud-based networking solutions that comply with EU data privacy regulations.

In Nebula's out-of-band control plane, network and management traffics are split into two different data paths. Management data (e.g. configuration, statistics, monitoring, etc.) turn towards Nebula's cloud from devices through an encrypted Internet connection of the NETCONF protocol, while user data (e.g. Web browsing and internal applications, etc.) flows directly to the destination on the LAN or across the WAN without passing through the cloud.



Features of the Nebula Architecture:

- End user data does not traverse through the cloud.
- Unlimited throughput, no centralized controller bottlenecks when new devices are added.
- Network functions even if connection to cloud is interrupted.
- Nebula's cloud management is backed by a 99.99% uptime SLA.

NETCONF Standard

Nebula is an industry-first solution that implements NETCONF protocol for safety of configuration changes in cloud management as all NETCONF messages are protected by TLS and exchanged using secure transports. Prior to NETCONF, CLI scripting and SNMP were two common approaches; but they have several limitations such as lacking of transaction management or useful standard security and commit mechanisms. The NETCONF protocol has been designed to address the shortcomings of the existing practices and protocols.

With the support of TCP and Callhome to overcome the NAT barrier, NETCONF is considered more reliable and elegant. It is also thinner than CWMP (TR-069) SOAP, which saves Internet bandwidth. With these features, the NETCONF protocol is regarded as more suitable for cloud networking.



Nebula Control Center (NCC)

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

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



Highlights

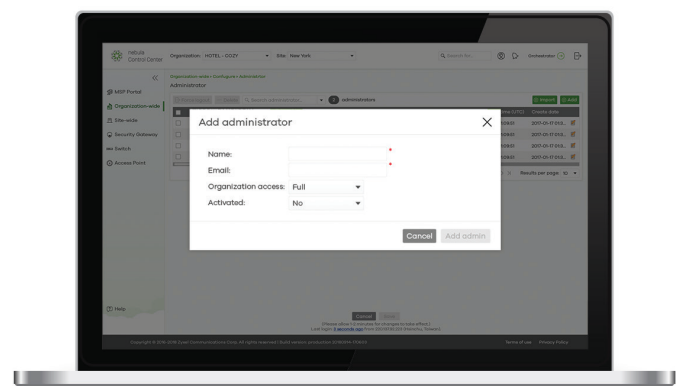
- Responsive web design and intuitive user interface with light & dark modes
- Multi-lingual management interface (English, Traditional Chinese, Japanese, German, French, Russian and more to come)
- Multi-tenant, multi-site manageability
- First time setup wizard
- Role-based administration privileges
- Pioneering cross-org management tools for MSP
- Powerful organization-wide management tools
- Rich site-wide management tools
- Site-based auto and smart configuration tools
- Misconfigured protection against disconnecting NCC
- Configuration changing alerts
- Login & Configure auditing
- Real-time and historical monitoring/reporting
- Granular device based information and trouble shooting tools
- Flexible firmware management

First Time Setup Wizard

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

Role-based Administration

Supervisors are allowed to appoint different privileges for multiple administrators to manage network and guess access. Specify management authority in the network access control function to maximize security and to avoid accidental misconfiguration.



Role-based Administration

Organization-wide Management Tools

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

Site-wide Management Tools

Integrated with the feature-rich dashboards, maps, floor plans, automatic visual and actionable network topology and site-based auto and smart configuring tools, the Nebula Control Center delivers instant network analysis and automatically performs AP authentication, configuration parity check, switch ports link aggregation and site-to-site VPN.

Misconfiguration Protection

To prevent any connectivity interruption caused by incorrect or inappropriate configuration, the Nebula devices can intelligently identify if the order or setting from NCC is correct to ensure the connection is always up with the Nebula cloud.

Configuration Changing Alerts

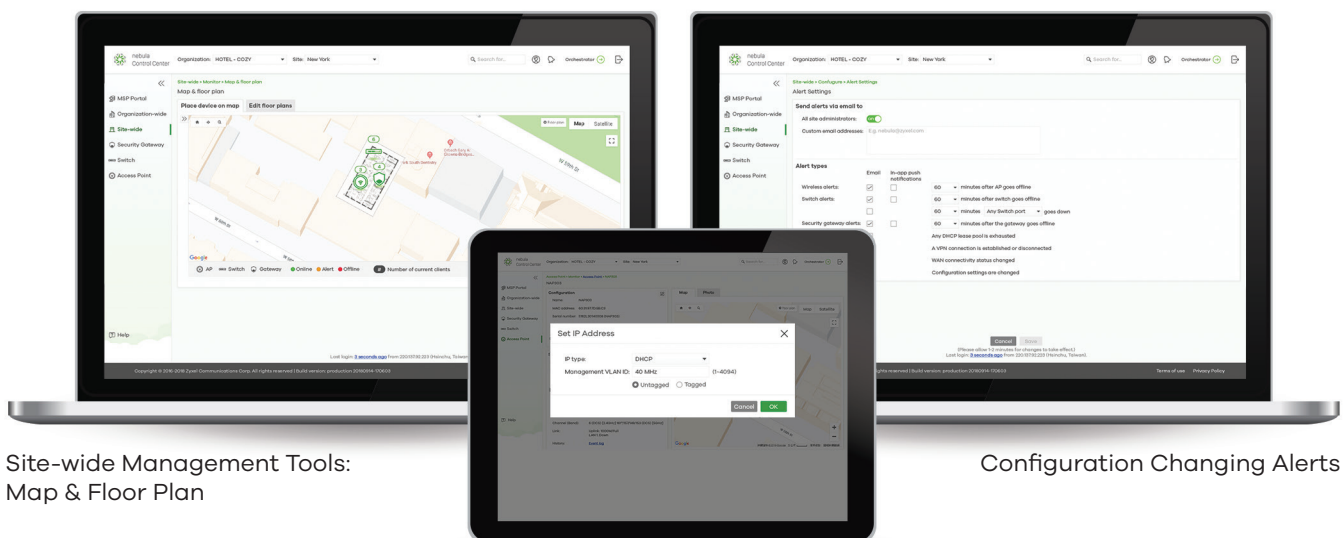
Configuration changing alerts help administrators to manage thousands of networking devices more efficiently, especially in larger or distributed sites. These real-time alerts are automatically sent from the Nebula Cloud system when configuration changes are made to keep new policies always up-to-date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

Login & Configure Auditing

The Nebula cloud control center automatically records the time and IP address of every 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 who made the changes.

Real-time & Historical Monitoring

Nebula Control center provides 24x7 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.



Site-wide Management Tools:
Map & Floor Plan

Configuration Changing Alerts

Misconfiguration Protection:
Set IP Address

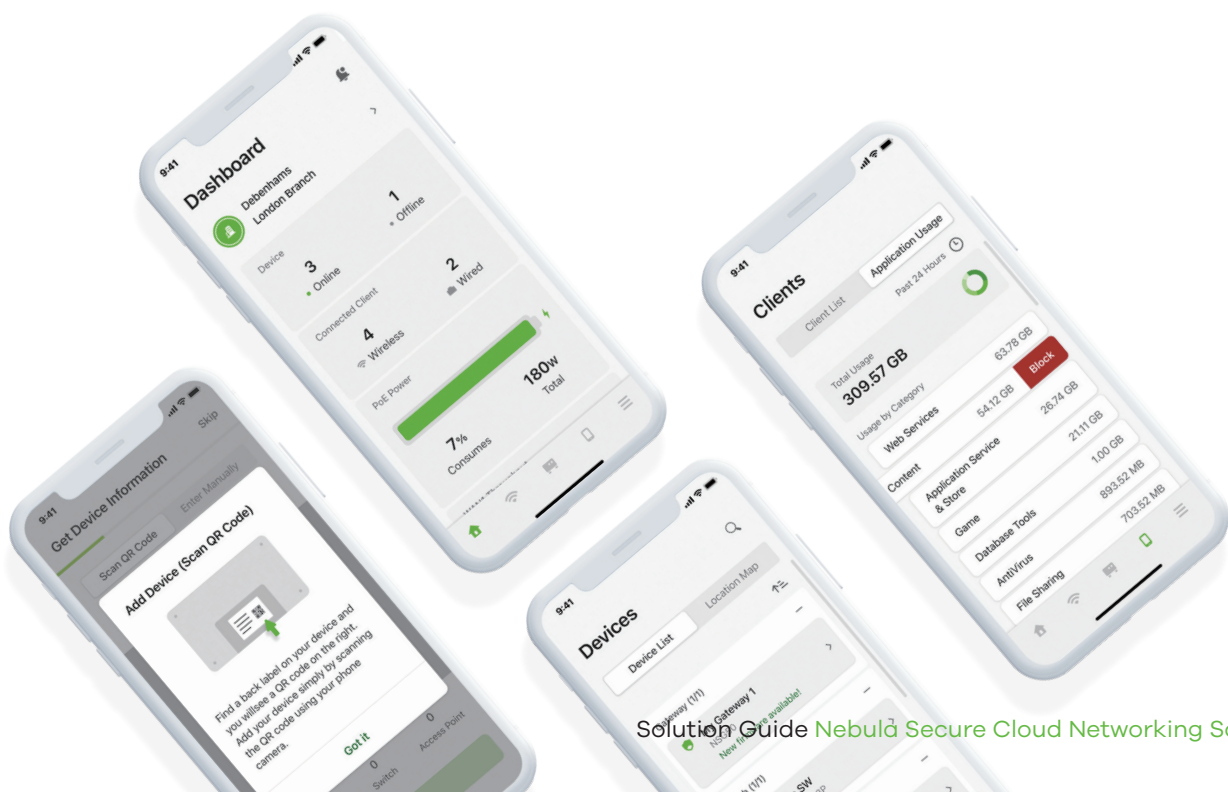
Nebula Mobile App

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 Nebula Control Center all at once. The app's features and functions include:

Highlights

- Sign up Nebula account
- Installation walk through wizard for creating org & site, adding devices (QR code or manually), setting up WiFi networks
- Hardware install guide and LED guide
- Enable/disable WiFi & sharing it via mobile messaging applications or QR code
- Switch and gateway ports info
- Mobile router WAN status
- Site-wide client monitoring with action support
- Site-wide application usage analysis with action support
- Centralize 3-in-1 device status
- Site-wide and per-device usage graph
- Site-wide and per-device PoE consumption
- Check map and photo of device location
- Live trouble shooting tools: reboot, Locator LED, switch port power reset, cable diagnostics, connection test
- Firmware upgrade schedule
- License overview and inventory
- Push notifications - Device down/up & license issue related
- Notification center up to 7 days alert history
- Nebula support request (Pro Pack license is required)



Product families

Access Points with NebulaFlex/ NebulaFlex Pro

Zyxel NebulaFlex solution allows the access points to be used in two modes; it's easy to switch between standalone mode and License Free Nebula Cloud management, anytime, with a few simple clicks. NebulaFlex provides true flexibility to adapt the access point to different needs in an ever-changing environment.

When used with Nebula you are able to 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 further supports triple mode functionality (standalone, hardware controller and Nebula) to give business clients true flexibility whatever their project may need.

Access Points with NebulaFlex Product Options

Model	NWA210BE	NWA130BE	NWA110BE	NWA90BE PRO
Product name	BE12300 WiFi 7 Dual-Radio NebulaFlex Access Point	BE11000 WiFi 7 Triple-Radio NebulaFlex Access Point	BE6500 WiFi 7 Dual-Radio NebulaFlex Access Point	BE6500 4-Stream WiFi 7 Dual-Radio NebulaFlex Access Point
				
Typical deployment	Medium to high density deployments	Entry-level wireless establishments	Entry-level wireless establishments	Small business, Entry-level establishments
Radio specification	• 1 x 802.11 b/g/n/ax/be radio • 1 x 802.11 a/n/ac/ax/be radio • 12.3Gbps max rate • Spatial Stream: 2+4	• 1 x 802.11 b/g/n/ax/be radio • 1 x 802.11 a/n/ac/ax/be radio • 11Gbps max rate • Spatial Stream: 2+2+2	• 1 x 802.11 b/g/n/ax/be radio • 1 x 802.11 a/n/ac/ax/be radio • 11Gbps max rate • Spatial Stream: 2+2	• 1 x 802.11 b/g/n/ax/be radio • 1 x 802.11 a/n/ac/ax/be radio • 6.5Gbps max rate • Spatial Stream: 2+2
Power	• DC input: USB PD 15VDC 2A (Type C) • PoE (802.3at): power draw 21.5W	• DC input: 12VDC 2A • PoE (802.3at): power draw 24W	• DC input: USB PD 15VDC 2 A (Type C) • PoE (802.3at): power draw 21.5W	• DC input: 12VDC 1.5A • PoE (802.3at): power draw 16W
Antenna	Internal antenna	Internal antenna	Internal antenna	Internal antenna

* Bundled licenses are not applicable to NebulaFlex AP.

Highlights

- Enjoy cloud features like zero-touch deployment, 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 RF optimization
- Secure WiFi solution provides remote workers the same access to the corporate network and resources while being protected with the enterprise-grade security.
- Connect and 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 support Nebula Cloud Authentication Server accounts, Microsoft Entra ID (Azure AD), social login with Facebook accounts, and Voucher
- Support smart mesh and wireless bridge
- Wireless health monitoring and report
- WiFi Aid gives insights into the client's connection issues to optimize connectivity and troubleshoot

Access Points with NebulaFlex Product Options

Model	NWA50BE PRO	NWA90BE	NWA50BE	NWA30BE
Product name	BE6500 4-Stream WiFi 7 Dual-Radio NebulaFlex Access Point	BE5100 4-Stream WiFi 7 Dual-Radio NebulaFlex Access Point	BE5100 4-Stream WiFi 7 Dual-Radio NebulaFlex Access Point	BE5100 4-Stream WiFi 7 Dual-Radio Desktop NebulaFlex Access Point
				
Typical deployment	Small business, Entry-level establishments	Small business, Entry-level establishments	Small business, Entry-level establishments	Small business, Entry-level establishments
Radio specification	• 1 x 802.11 b/g/n/ax/be radio • 1 x 802.11 a/n/ac/ax/be radio • 6.5Gbps max rate • Spatial Stream: 2+2	• 1 x 802.11 b/g/n/ax/be radio • 1 x 802.11 a/n/ac/ax/be radio • 5.1Gbps max rate • Spatial Stream: 2+2	• 1 x 802.11 b/g/n/ax/be radio • 1 x 802.11 a/n/ac/ax/be radio • 5.1Gbps max rate • Spatial Stream: 2+2	• 1 x 802.11 b/g/n/ax/be radio • 1 x 802.11 a/n/ac/ax/be radio • 5.1Gbps max rate • Spatial Stream: 2+2
Power	• DC input: 12VDC 1.5A • PoE (802.3at): power draw 16W	• DC input: 12VDC 1.5A • PoE (802.3at): power draw 16W	• DC input: 12VDC 1.5A • PoE (802.3at): power draw 16W	• DC input: 12VDC 1.5A
Antenna	Internal antenna	Internal antenna	Internal antenna	External antenna

* Bundled licenses are not applicable to NebulaFlex AP.

Access Points with NebulaFlex Product Options

Model	NWA55BE	NWA210AX	NWA110AX	NWA90AX Pro
Product name	BE5100 4-Stream WiFi 7 Dual-Radio NebulaFlex Outdoor Access Point	AX3000 WiFi 6 Dual-Radio NebulaFlex Access Point	AX1800 WiFi 6 Dual-Radio NebulaFlex Access Point	AX3000 WiFi 6 Dual-Radio NebulaFlex Access Point
				
Typical deployment	Outdoor, Entry-level establishments	Medium to high density deployments	Entry-level wireless establishments	Small business, Entry-level establishments
Radio specification	• 1 x 802.11 b/g/n/ax/be radio • 1 x 802.11 a/n/ac/ax/be radio • 5.1Gbps max rate • Spatial Stream: 2+2	• 1 x 802.11 b/g/n/ax radio • 1 x 802.11 a/n/ac/ax radio • 2.975Gbps max rate • Spatial Stream: 2+4	• 1 x 802.11 b/g/n/ax radio • 1 x 802.11 a/n/ac/ax radio • 1.775Gbps max rate • Spatial Stream: 2+2	• 1 x 802.11 b/g/n/ax radio • 1 x 802.11 a/n/ac/ax radio • 2.975Gbps max rate • Spatial Stream: 2+2
Power	• PoE (802.3at): power draw 16W	• DC input: 12VDC 2A • PoE (802.3at): power draw 19W	• DC input: 12VDC 1.5A • PoE (802.3at): power draw 17W	• DC input: 12VDC 2A • PoE (802.3at): power draw 20.5W
Antenna	External antenna	Internal antenna	Internal antenna	Internal antenna

* Bundled licenses are not applicable to NebulaFlex AP.

Access Points with NebulaFlex Product Options

Model	NWA50AX Pro	NWA90AX	NWA50AX	NWA55AXE
Product name	AX3000 WiFi 6 Dual-Radio NebulaFlex Access Point	AX1800 WiFi 6 Dual-Radio NebulaFlex Access Point	AX1800 WiFi 6 Dual-Radio NebulaFlex Access Point	AX1800 WiFi 6 Dual-Radio NebulaFlex Outdoor Access Point
				
Typical deployment	Small business, Entry-level establishments	Small business, Entry-level establishments	Small business, Entry-level establishments	Outdoor, Entry-level establishments
Radio specification	• 1 x 802.11 b/g/n/ax radio • 1 x 802.11 a/n/ac/ax radio • 2.975Gbps max rate • Spatial Stream: 2+2	• 1 x 802.11 b/g/n/ax radio • 1 x 802.11 a/n/ac/ax radio • 1.775Gbps max rate • Spatial Stream: 2+2	• 1 x 802.11 b/g/n/ax radio • 1 x 802.11 a/n/ac/ax radio • 1.775Gbps max rate • Spatial Stream: 2+2	• 1 x 802.11 b/g/n/ax radio • 1 x 802.11 a/n/ac/ax radio • 1.775Gbps max rate • Spatial Stream: 2+2
Power	• DC input: 12VDC 2A • PoE (802.3at): power draw 20.5W	• DC input: 12VDC 1.5A • PoE (802.3at): power draw 16W	• DC input: 12VDC 1.5A • PoE (802.3at): power draw 16W	• PoE (802.3at): power draw 16W
Antenna	Internal antenna	Internal antenna	Internal antenna	External antenna

* Bundled licenses are not applicable to NebulaFlex AP.

Access Points with NebulaFlex Pro Product Options

Model	WBE660S	WBE630S	WBE530	WBE510D
Product name	BE22000 WiFi 7 Triple-Radio NebulaFlex Pro Access Point	BE12300 6-Stream WiFi 7 Dual-Radio NebulaFlex Pro Access Point	BE11000 WiFi 7 Triple-Radio NebulaFlex Pro Access Point	BE6500 4-Stream WiFi 7 Dual-Radio NebulaFlex Pro Access Point
				
Typical deployment	High density and interference-laden indoor environments	High density and interference laden indoor environments	Medium to high density deployments	Medium to high density deployments
Radio specification	• 1 x 802.11 b/g/n/ax/be radio • 1 x 802.11 a/n/ac/ax/be radio • 22Gbps max rate • Spatial Stream: 4+4+4	• 1 x 802.11 b/g/n/ax/be radio • 1 x 802.11 a/n/ac/ax/be radio • 12.3Gbps max rate • Spatial Stream: 2+4	• 1 x 802.11 b/g/n/ax/be radio • 1 x 802.11 a/n/ac/ax/be radio • 11Gbps max rate • Spatial Stream: 2+2+2	• 1 x 802.11 b/g/n/ax/be radio • 1 x 802.11 a/n/ac/ax/be radio • 6.5Gbps max rate • Spatial Stream: 2+2
Power	• DC input: USB PD 15VDC 3A (Type C) • PoE (802.3bt): power draw 41W	• DC input: USB PD 15VDC 2A (Type C) • PoE (802.3at): power draw 21.5W	• DC input: 12VDC 2A • PoE (802.3bt): power draw 24W	• DC input: USB PD 15VDC 2A (Type C) • PoE (802.3at): power draw 21.5W
Antenna	Internal smart antenna	Internal smart antenna	Internal antenna	Dual-optimized internal antenna

* 1-year Professional pack license is bundled in NebulaFlex Pro AP.

Access Points with NebulaFlex Pro Product Options

Model	WAX650S	WAX630S	WAX610D	WAX510D
Product name	AX3600 WiFi 6 Dual-Radio NebulaFlex Pro Access Point	AX3000 WiFi 6 Dual-Radio NebulaFlex Pro Access Point	AX3000 WiFi 6 Dual-Radio NebulaFlex Pro Access Point	AX1800 WiFi 6 Dual-Radio NebulaFlex Pro Access Point
				
Typical deployment	High density and interference-laden indoor environments	High density and interference-laden indoor environments	Medium to high density deployments	Medium to high density deployments
Radio specification	• 1 x 802.11 b/g/n/ax radio • 1 x 802.11 a/n/ac/ax radio • 1 x monitoring radio • 3.55Gbps max rate • Spatial Stream: 4+4	• 1 x 802.11 b/g/n/ax radio • 1 x 802.11 a/n/ac/ax radio • 2.975Gbps max rate • Spatial Stream: 2+4	• 1 x 802.11 b/g/n/ax radio • 1 x 802.11 a/n/ac/ax radio • 2.975Gbps max rate • Spatial Stream: 2+4	• 1 x 802.11 b/g/n/ax radio • 1 x 802.11 a/n/ac/ax radio • 1.775Gbps max rate • Spatial Stream: 2+2
Power	• DC input: 12VDC 2.5A • PoE (802.3bt): power draw 31W	• DC input: 12VDC 2A • PoE (802.3at): power draw 19W	• DC input: 12VDC 2A • PoE (802.3at): power draw 19W	• DC input: 12VDC 1.5A • PoE (802.3at): power draw 17W
Antenna	Internal smart antenna	Internal smart antenna	Dual-optimized internal antenna	Dual-optimized internal antenna

* 1-year Professional pack license is bundled in NebulaFlex Pro AP.

Access Points with NebulaFlex Pro Product Options

Model	WAX655E	WAX300H	WAC500H
Product name	AX5400 WiFi 6 Dual-Radio NebulaFlex Pro Outdoor Access Point	AX3000 WiFi 6 Dual-Radio NebulaFlex Pro Wall-Plate Access Point	AC1200 WiFi 5 Wave 2 Dual-Radio NebulaFlex Pro Wall-Plate Access Point
			
Typical deployment	Outdoor	Per-room deployments	Per-room deployments
Radio specification	• 1 x 802.11 b/g/n/ax radio • 1 x 802.11 a/n/ac/ax radio • 5.4Gbps max rate • Spatial Stream: 2+4	• 1 x 802.11 b/g/n/ax radio • 1 x 802.11 a/n/ac/ax radio • 2.975Gbps max rate • Spatial Stream: 2+2	• 1 x 802.11 b/g/n radio • 1 x 802.11 a/n/ac radio • 1.2Gbps max rate • Spatial Stream: 2+2
Power	• 802.3at PoE only	• PoE (802.3at): power draw 25.5W (include 4W for PoE PSE)	• DC input: 12VDC, 1A • PoE (802.3at/af): power draw 18W
Antenna	External antenna	Internal antenna	Internal antenna

* 1-year Professional pack license is bundled in NebulaFlex Pro AP.



Switches with NebulaFlex/ NebulaFlex Pro

Zyxel switches with **NebulaFlex** allow you to easily switch between standalone and our license-free Nebula cloud management platform anytime with just a few simple clicks. **NebulaFlex Pro** switches are further bundled with a 1-year Professional Pack license. XS3800-28, XGS2220 and GS2220 Series switches come with NebulaFlex Pro which provides advanced IGMP technology, network analytics alerts and more, that allow resellers, MSPs, and network admins to experience the simplicity, scalability, and flexibility of Zyxel's Nebula networking solution.

Meanwhile, GS1350 Series further focus 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 on wired technology by offering the flexibility to transition to the cloud in your own time, without worrying about additional ongoing licensing costs.

Switches with NebulaFlex Product Options

Model	XMG1915-10E	XMG1915-10EP	XMG1915-18EP
Product name	8-port 2.5GbE Smart Managed Switch with 2 SFP+ Uplink	8-port 2.5GbE Smart Managed PoE Switch with 2 SFP+ Uplink	16-port 2.5GbE Smart Managed PoE Switch with 2 SFP+ Uplink
			
Switch class	Smart Managed	Smart Managed	Smart Managed
Total port count	10	10	18
100M/1G/2.5G (RJ-45)	8	8	16
100M/1G/2.5G (RJ-45, PoE++)	-	8	8
1G/10G SFP+	2	2	2
Switching capacity (Gbps)	80	80	120
Total PoE power budget (watts)	-	130	180

* Bundled licenses are not applicable to NebulaFlex switches.

Highlights

- Comprehensive Switch product portfolio includes wide-range port selection, multiple speed options (1G, 2.5G, 10G, 25G, 100G), PoE or non-PoE, and all fiber models.
- Smart fan and fanless designs offer silent operations in the office
- Offers scalable 10G to 100G solution in the cloud
- Check real-time status intuitively by cloud and PoE LED indicators
- GS1350 Series Surveillance switches are designed with specialized PoE features for IP cameras and surveillance report that can be monitor and manage the surveillance networks via the Cloud
- Enjoy cloud features like zero-touch deployment, real-time configurations with Nebula
- Efficient network provisioning with multiple ports configuration all at once
- User-friendly ACL and PoE schedule configuration
- Intelligent PoE technology and network topology
- Auto PD Recovery to detect and recover failed powered devices automatically
- RADIUS, static MAC forwarding and 802.1X authentication
- Advanced Switch Control (Vendor Based VLAN, IP Interfacing & Static Routing, Remote CLI access)
- Advanced IGMP multicast functionality and IPTV report
- Switch Stacking enhances bandwidth, scalability, and redundancy through unified cloud management
- Port Advisor identifies port issues with visual summaries and quick diagnostics

Switches with NebulaFlex Product Options

Model	GS1915-8	GS1915-8EP	GS1915-24E	GS1915-24EP
Product name	8-port GbE Smart Managed Switch	8-port GbE Smart Managed PoE Switch	24-port GbE Smart Managed Switch	24-port GbE Smart Managed PoE Switch
				
Switch class	Smart Managed	Smart Managed	Smart Managed	Smart Managed
Total port count	8	8	24	24
100M/1G (RJ-45)	8	8	24	24
100M/1G (RJ-45, PoE+)	-	8	-	12
Switching capacity (Gbps)	16	16	48	48
Total PoE power budget (watts)	-	60	-	130

* Bundled licenses are not applicable to NebulaFlex switches.

Switches with NebulaFlex Product Options

Model	GS1920-8HPv2	GS1920-24v2	GS1920-24HPv2	GS1920-48v2	GS1920-48HPv2
Product name	8-port GbE Smart Managed PoE Switch 	24-port GbE Smart Managed Switch 	24-port GbE Smart Managed PoE Switch 	48-port GbE Smart Managed Switch 	48-port GbE Smart Managed PoE Switch 
Switch class	Smart Managed	Smart Managed	Smart Managed	Smart Managed	Smart Managed
Total port count	10	28	28	50	50
100M/1G (RJ-45)	8	24	24	44	44
100M/1G (RJ-45, PoE+)	8	-	24	-	48
1G SFP	-	-	-	2	2
1G combo (SFP/RJ-45)	2	4	4	4	4
Switching capacity (Gbps)	20	56	56	100	100
Total PoE power budget (watts)	130	-	375	-	375

* Bundled licenses are not applicable to NebulaFlex switches.

Switches with NebulaFlex Product Options

Model	XS1930-10	XS1930-12HP	XS1930-12F	XMG1930-30	XMG1930-30HP
Product name	8-port 10G Multi-Gig Lite-L3 Smart Managed Switch with 2 SFP+ 	8-port 10G Multi-Gig PoE Lite-L3 Smart Managed Switch with 2 10G Multi-Gig Ports & 2 SFP+ 	10-port 10G Lite-L3 Smart Managed Fiber Switch with 2 10G Multi-Gig Ports 	24-port 2.5G Multi-Gig Lite-L3 Smart Managed Switch with 6 10G Uplink 	24-port 2.5G Multi-Gig Lite-L3 Smart Managed PoE++/PoE+ Switch with 6 10G Uplink 
Switch class	Smart Managed	Smart Managed	Smart Managed	Smart Managed	Smart Managed
Total port count	10	12	12	30	30
100M/1G/2.5G (RJ-45)	-	-	-	24	24
100M/1G/2.5G (RJ-45, PoE+)	-	-	-	-	20
100M/1G/2.5G (RJ-45, PoE++)	-	-	-	-	4
1G/2.5G/5G/10G (RJ-45)	8	10	2	4	4
1G/2.5G/5G/10G (RJ-45, PoE++)	-	8	-	-	4
1G/10G SFP+	2	2	10	2	2
Switching capacity (Gbps)	200	240	240	240	240
Total PoE power budget (watts)	-	375	-	-	700

* Bundled licenses are not applicable to NebulaFlex switches.

Switches with NebulaFlex Product Options

Model	XGS1935-28	XGS1935-28HP	XGS1935-52	XGS1935-52HP
Product name	24-port GbE Lite-L3 Smart Managed Switch with 4 10G Uplink	24-port GbE PoE Lite-L3 Smart Managed Switch with 4 10G Uplink	48-port GbE Lite-L3 Smart Managed Switch with 4 10G Uplink	48-port GbE PoE Lite-L3 Smart Managed Switch with 4 10G uplink
				
Switch class	Smart Managed	Smart Managed	Smart Managed	Smart Managed
Total port count	28	28	52	52
100M/1G (RJ-45)	24	24	48	48
100M/1G (RJ-45, PoE+)	-	24	-	48
1G/10G SFP+	4	4	4	4
Switching capacity (Gbps)	128	128	176	176
Total PoE power budget (watts)	-	375	-	375

* Bundled licenses are not applicable to NebulaFlex switches.

Switches with NebulaFlex Pro Product Options

Model	GS1350-6HP	GS1350-12HP	GS1350-18HP	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	Smart Managed	Smart Managed	Smart Managed
Total port count	6	12	18	26
100M/1G (RJ-45)	5	10	16	24
100M/1G (RJ-45, PoE+)	5 (port 1-2 PoE++)	8	16	24
1G SFP	1	2	-	-
1G combo (SFP/RJ-45)	-	-	2	2
Switching capacity (Gbps)	12	24	36	52
Total PoE power budget (watts)	60	130	250	375

* 1-year Professional pack license is bundled in NebulaFlex Pro switch.

Switches with NebulaFlex Pro Product Options

Model	GS2220-10	GS2220-10HP	GS2220-28	GS2220-28HP
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	24-port GbE L2 PoE Switch with GbE Uplink
				
Switch class	Layer 2 Plus	Layer 2 Plus	Layer 2 Plus	Layer 2 Plus
Total port count	10	10	28	28
100M/1G (RJ-45)	8	8	-	24
100M/1G (RJ-45, PoE+)	-	8	-	24
1G SFP	-	-	-	-
1G combo (SFP/RJ-45)	2	2	4	4
Switching capacity (Gbps)	20	20	56	56
Total PoE power budget (watts)	-	180	-	375

* 1-year Professional pack license is bundled in NebulaFlex Pro switch.

Switches with NebulaFlex Pro Product Options

Model	GS2220-50	GS2220-50HP
Product name	48-port GbE L2 Switch with GbE Uplink	48-port GbE L2 PoE Switch with GbE Uplink
		
Switch class	Layer 2 Plus	Layer 2 Plus
Total port count	50	50
100M/1G (RJ-45)	44	44
100M/1G (RJ-45, PoE+)	-	48
1G SFP	2	2
1G combo (SFP/RJ-45)	4	4
Switching capacity (Gbps)	100	100
Total PoE power budget (watts)	-	375

* 1-year Professional pack license is bundled in NebulaFlex Pro switch.

Switches with NebulaFlex Pro Product Options

Model	XGS2220-30	XGS2220-30HP	XGS2220-30F
Product name	24-port GbE L3 Access Switch with 6 10G Uplink	24-port GbE L3 Access PoE+ Switch with 6 10G Uplink (400W)	24-port SFP L3 Access Switch with 6 10G Uplink
			
Switch class	Layer 3 Access	Layer 3 Access	Layer 3 Access
Total port count	30	30	30
100M/1G (RJ-45)	24	24	-
100M/1G (RJ-45, PoE+)	-	16	-
100M/1G (RJ-45, PoE++)	-	8	-
1G/2.5G/5G/10G (RJ-45)	2	2	2
1G/2.5G/5G/10G (RJ-45, PoE++)	-	2	-
1G SFP	-	-	24
1G/10G SFP+	4	4	4
Switching capacity (Gbps)	168	168	168
Total PoE power budget (watts)	-	400	-
Physical stacking	4	4	4

* 1-year Professional pack license is bundled in NebulaFlex Pro switch.

Switches with NebulaFlex Pro Product Options

Model	XGS2220-54	XGS2220-54HP	XGS2220-54FP
Product name	48-port GbE L3 Access Switch with 6 10G Uplink	48-port GbE L3 Access PoE+ Switch with 6 10G Uplink (600W)	48-port GbE L3 Access PoE+ Switch with 6 10G Uplink (960W)
			
Switch class	Layer 3 Access	Layer 3 Access	Layer 3 Access
Total port count	54	54	54
100M/1G (RJ-45)	48	48	48
100M/1G (RJ-45, PoE+)	-	40	40
100M/1G (RJ-45, PoE++)	-	8	8
100M/1G/2.5G/5G/10G (RJ-45)	2	2	2
100M/1G/2.5G/5G/10G (RJ-45, PoE++)	-	2	2
1G SFP	-	-	-
1G/10G SFP+	4	4	4
Switching capacity (Gbps)	261	261	261
Total PoE power budget (watts)	-	600	960
Physical stacking	4	4	4

* 1-year Professional pack license is bundled in NebulaFlex Pro switch.

Switches with NebulaFlex Pro Product Options

Model	XS3800-28
Product name	28-port 10GbE L3 Aggregation Switch
	
Switch class	Layer 3 Aggregation
Total port count	28
1G/2.5G/ 5G/10G (RJ-45)	4
10G Multi-Gig combo (1G/2.5G/5G/10G RJ-45/10G SFP+)	8
1G/10G SFP+	16
Switching capacity (Gbps)	560
Physical stacking	4

* 1-year Professional pack license is bundled in NebulaFlex Pro switch.

Model	CX4800-56F
Product name	48-port 10G/25G L3 Aggregation Fiber Switch with 8 100G Uplink
	
Switch class	Layer 3 Aggregation
Total port count	56
10G/25G SFP28	48
100G QSFP28	8
Switching capacity (Tbps)	4

* 1-year Professional pack license is bundled in NebulaFlex Pro switch.

Switch Accessory with Nebula Monitor Functions

Model	PoE12-3PD
Product name	Cloud Outdoor/ Indoor PoE Extender
	
Total port count	4
PoE in port	1 x 10/100/1000BASE-T Ethernet with IEEE 802.3bt PoE++
PoE out port	3 x 10/100/1000BASE-T Ethernet with IEEE 802.3at PoE+
Max. PoE power budget	45W
Enclosure	IP55, plastic
Installation	Pole and Wall
Power input	802.3bt (60W) PoE input only
Operating temperature	-20°C to 50°C/-4°F to 122°F
Ethernet port surge protection	6KV
Ethernet port ESD protection (air/contact)	8KV/6KV

Firewall Series

Zyxel's firewall innovation has steadily progressed over the years, leading to the advanced USG FLEX H Series—built for high-performance and hybrid network environments. Powered by next-gen hardware, the H Series delivers up to 3x faster throughput, supports 1G to 10G high-speed ports, and features a modular design with flexible port combinations to suit evolving business needs. As part of the Nebula cloud-managed ecosystem, it provides unified policy control, real-time analytics,

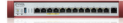
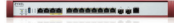
and AI-powered threat intelligence. Smart Sync ensures that configurations and security policies stay in sync across both cloud and on-prem deployments, offering consistent protection with less manual effort. Together, Nebula and USG FLEX H deliver enterprise-grade security in a scalable, easy-to-manage solution—empowering SMBs and MSPs to stay ahead in today's complex and fast-changing threat landscape.

Highlights

- Cloud and on-prem security integrated with smart sync to effortlessly enforce unified security policies
- High assurance multi-layered protection includes IP/URL/DNS reputation filter, App Patrol, Web Filtering, Anti-malware and IPS
- Collaborating policy enforcement devices and eliminating repetitive logins with Collaborative Detection & Response
- Support for Org-wide VPN and Orchestrator SD-VPN with VPN topology displaying traffic usage
- Best practices for remote access with Secure WiFi and VPN management consolidates and ensures the same network control and security across multiple sites
- Level up security with two-factor authentication (2FA) network access let you quickly and easily verify users' identities with users accessing their networks through the edge devices
- Cloud sandboxing technology prevents zero-day attacks of all sorts
- Comprehensive summary reports for security events and network traffic through SecuReporter service



Product Options

Model	USG FLEX 50H/HP	USG FLEX 100H/HP	USG FLEX 200H/HP	USG FLEX 500H	USG FLEX 700H
Product name	USG FLEX 50H/HP Firewall	USG FLEX 100H/HP Firewall	USG FLEX 200H/HP Firewall	USG FLEX 500H Firewall	USG FLEX 700H Firewall
    					
Hardware Specifications					
Interface/Ports	• 50H: 5 x 1GbE • 50HP: 4 x 1GbE, 1 x 1GbE/PoE+ (802.3at, 30W max.)	• 100H: 8 x 1GbE • 100HP: 7 x 1GbE, 1 x 1GbE/PoE+ (802.3at, 30W max.)	• 200H: 2 x 2.5mGig, 2 x 2.5mGig, 6 x 1GbE • 200HP: 1 x 2.5mGig, 1 x 2.5mGig/PoE+ (802.3at, 30W max.), 6 x 1GbE	2 x 2.5mGig, 2 x 2.5mGig/PoE+ (802.3at, total 30W), 8 x 1GbE	2 x 2.5mGig, 2 x 10mGig/PoE+ (802.3at, total 30W), 8 x 1GbE, 2 x 10G SFP+
USB 3.0 ports	1	1	1	1	1
Console port	Yes (RJ-45)	Yes (RJ-45)	Yes (RJ-45)	Yes (RJ-45)	Yes (RJ-45)
Rack-mountable	-	-	Yes	Yes	Yes
Fanless	Yes	Yes	Yes	-	-
System Capacity & Performance*1					
SPI firewall throughput*2 (Mbps)	2,000	4,000	6,500	10,000	15,000
VPN throughput*3 (Mbps)	500	900	1,200	2,000	3,000
IPS throughput*4 (Mbps)	1,000	1,500	2,500	4,500	7,000
Anti-Malware throughput*4 (Mbps)	600	1,000	1,800	3,000	4,000
UTM throughput*4 (Anti-Malware & IPS, Mbps)	600	1,000	1,800	3,000	4,000
Max. TCP concurrent sessions*5	100,000	300,000	600,000	1,000,000	2,000,000
Max. concurrent IPSec VPN tunnels*6	20	50	100	300	1,000
Recommended gateway-to-gateway IPSec VPN tunnels	5	20	50	150	300
Concurrent SSL VPN users	15	25	50	150	500
VLAN interface	8	16	32	64	128
Security Service*7					
Anti-Malware	Yes	Yes	Yes	Yes	Yes
IPS	Yes	Yes	Yes	Yes	Yes
Application Patrol	Yes	Yes	Yes	Yes	Yes
Web Filtering	Yes	Yes	Yes	Yes	Yes
Reputation Filter	Yes	Yes	Yes	Yes	Yes
SecuReporter	Yes	Yes	Yes	Yes	Yes
Sandboxing	Yes	Yes	Yes	Yes	Yes
Collaborative Detection & Response	Yes	Yes	Yes	Yes	Yes
Security Profile Synchronize (SPS)	Yes	Yes	Yes	Yes	Yes
Geo Enforcer	Yes	Yes	Yes	Yes	Yes
Device Insight	Yes	Yes	Yes	Yes	Yes
SSL (HTTPS) Inspection	Yes	Yes	Yes	Yes	Yes
Two-Factor Authentication	Yes	Yes	Yes	Yes	Yes
VPN Features					
VPN Protocol	IKEv2/IPSec, SSL, Tailscale*8	IKEv2/IPSec, SSL, Tailscale*8	IKEv2/IPSec, SSL, Tailscale*8	IKEv2/IPSec, SSL, Tailscale*8	IKEv2/IPSec, SSL, Tailscale*8
WLAN Management & Connectivity					
Default Number of Managed AP	8	8	8	8	8
Secure WiFi	Yes	Yes	Yes	Yes	Yes
Maximum Number of Tunnel-Mode AP*9 3		6	10	18	130
Maximum Number of Managed AP	12	24	40	72	520
Recommend max. AP in 1 AP Group	10	10	20	60	200
Device HA	-	-	Yes	Yes	Yes

*1: Actual performance may vary depending on system configuration, network conditions, and activated applications.

*2: Maximum throughput based on RFC 2544 (1,518-byte UDP packets).

*3: VPN throughput measured based on RFC 2544 (1,424-byte UDP packets).

*4: 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.

*5: Maximum sessions measured using the industry standard IXIA IxLoad testing tool.

*6: Including Gateway-to-Gateway and Client-to-Gateway.

*7: Requires a Zyxel service license to enable or extend feature capacity. SSL (HTTPS) inspection and Two-Factor Authentication are default supported features for any registered USG FLEX H device.

*8: Local GUI only.

*9: Available in Q3, 2026

Product Options

Model	USG FLEX 50	USG FLEX 50AX	USG FLEX 100	USG FLEX 100AX	USG FLEX 200	USG FLEX 500	USG FLEX 700
Product name	ZyWALL USG FLEX 50 Firewall	ZyWALL USG FLEX 50AX Firewall	ZyWALL USG FLEX 100 Firewall	ZyWALL USG FLEX 100AX Firewall	ZyWALL USG FLEX 200 Firewall	ZyWALL USG FLEX 500 Firewall	ZyWALL USG FLEX 700 Firewall
							
System Capacity & Performance*							
SPI firewall throughput**2 (Mbps)	350	350	900	900	1,800	2,300	5,400
VPN throughput**3 (Mbps)	90	90	270	270	450	810	1,100
IPS throughput**4 (Mbps)	-	-	540	540	1,100	1,500	2,000
Anti-Malware throughput**4 (Mbps)	-	-	360	360	570	800	1,450
UTM throughput**4 (Anti-Malware & IPS, Mbps)	-	-	360	360	550	800	1,350
Max. TCP concurrent sessions**5	20,000	20,000	300,000	300,000	600,000	1,000,000	1,600,000
Max. concurrent IPSec VPN tunnels**6	20	20	50	50	100	300	500
Recommended gateway-to-gateway IPSec VPN tunnels	5	5	20	20	50	150	250
Concurrent SSL VPN users	15	15	30	30	60	150	150
VLAN interface	8	8	8	8	16	64	128
Wireless Specifications							
Standard compliance	-	802.11 ax/ac/n/g/b/a	-	802.11 ax/ac/n/g/b/a	-	-	-
Wireless frequency	-	2.4/5GHz	-	2.4/5GHz	-	-	-
Radio	-	2	-	2	-	-	-
SSID number	-	4	-	4	-	-	-
No. of antenna	-	2 detachable antennas	-	2 detachable antennas	-	-	-
Antenna gain	-	3dbi @2.4GHz/5GHz	-	3dbi @2.4GHz/5GHz	-	-	-
Data rate	-	2.4GHz: up to 600Mbps 5GHz: up to 1200Mbps	-	2.4GHz: up to 600Mbps 5GHz: up to 1200Mbps	-	-	-
Security Service							
Sandboxing**7	-	-	Yes	Yes	Yes	Yes	Yes
Web Filtering**7	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Application Patrol**7	-	-	Yes	Yes	Yes	Yes	Yes
Anti-Malware**7	-	-	Yes	Yes	Yes	Yes	Yes
IPS**7	-	-	Yes	Yes	Yes	Yes	Yes
SecuReporter**7	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Collaborative Detection & Response**7	-	-	Yes	Yes	Yes	Yes	Yes
Device Insight	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Security Profile Synchronize (SPS)**7	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Geo Enforcer	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SSL (HTTPS) inspection	-	-	Yes	Yes	Yes	Yes	Yes
2-Factor Authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VPN Features							
VPN	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec
Microsoft Azure	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Amazon VPC	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Secure WiFi Service**7							
Maximum Number of Tunnel-Mode AP	-	-	6	6	10	18	130
Maximum Number of Managed AP	-	-	24	24	40	72	520
Recommend max. AP in 1 AP Group	-	-	10	10	20	60	200

*1: Actual performance may vary depending on system configuration, network conditions, and activated applications.

*2: Maximum throughput based on RFC 2544 (1,518-byte UDP packets).

*3: VPN throughput measured based on RFC 2544 (1,424-byte UDP packets); IMIX: UDP throughput based on a combination of 64 byte, 512 byte and 1424 byte packet sizes.

*4: 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.

*5: Maximum sessions measured using the industry standard IXIA IxLoad testing tool

*6: Including Gateway-to-Gateway and Client-to-Gateway.

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

Product Options

Model	ATP100	ATP200	ATP500	ATP700	ATP800
Product name	ATP Firewall	ATP Firewall	ATP Firewall	ATP Firewall	ATP Firewall
					
System Capacity & Performance*¹					
SPI firewall throughput* ² (Mbps)	1,000	2,000	2,600	6,000	8,000
VPN throughput* ³ (Mbps)	300	500	900	1,200	1,500
IPS throughput* ⁴ (Mbps)	600	1,200	1,700	2,200	2,700
Anti-Malware throughput* ⁴ (Mbps)	380	630	900	1,600	2,000
UTM throughput* ⁴ (Anti-Malware and IPS, Mbps)	380	600	890	1,500	1900
Max. TCP concurrent sessions* ⁵	300,000	600,000	1,000,000	1,600,000	2,000,000
Max. concurrent IPSec VPN tunnels* ⁶	40	100	300	500	1,000
Recommended gateway-to-gateway IPSec VPN tunnels	20	50	150	300	300
Concurrent SSL VPN users	30	60	150	150	500
VLAN interface	8	16	64	128	128
Security Service					
Sandboxing* ⁷	Yes	Yes	Yes	Yes	Yes
Web Filtering* ⁷	Yes	Yes	Yes	Yes	Yes
Application Patrol* ⁷	Yes	Yes	Yes	Yes	Yes
Anti-Malware* ⁷	Yes	Yes	Yes	Yes	Yes
IPS* ⁷	Yes	Yes	Yes	Yes	Yes
Reputation Filter* ⁷	Yes	Yes	Yes	Yes	Yes
SecuReporter* ⁷	Yes	Yes	Yes	Yes	Yes
Collaborative Detection & Response* ⁷	Yes	Yes	Yes	Yes	Yes
Device Insight	Yes	Yes	Yes	Yes	Yes
Security Profile Synchronize (SPS)* ⁷	Yes	Yes	Yes	Yes	Yes
Geo Enforcer	Yes	Yes	Yes	Yes	Yes
SSL (HTTPS) Inspection	Yes	Yes	Yes	Yes	Yes
2-Factor Authentication	Yes	Yes	Yes	Yes	Yes
VPN Features					
VPN	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec
Microsoft Azure	Yes	Yes	Yes	Yes	Yes
Amazon VPC	Yes	Yes	Yes	Yes	Yes
Secure WiFi Service*⁷					
Maximum Number of Tunnel-Mode AP	6	10	18	66	130
Maximum Number of Managed AP	24	40	72	264	520
Recommend max. AP in 1 AP Group	10	20	60	200	300

*1: Actual performance may vary depending on system configuration, network conditions, and activated applications.

*2: Maximum throughput based on RFC 2544 (1,518-byte UDP packets).

*3: VPN throughput measured based on RFC 2544 (1,424-byte UDP packets).

*4: 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.

*5: Maximum sessions measured using the industry standard IXIA IxLoad testing tool.

*6: Including Gateway-to-Gateway and Client-to-Gateway.

*7: Enable or extend feature capacity with Zyxel service license.

Security Router Series

The USG LITE and SCR series are secure, cloud-managed routers that provide business-class firewall protection, VPN gateway capabilities, high-speed WiFi, and built-in security to safeguard against ransomware and other threats. These routers are ideal for teleworkers or small businesses/offices seeking easy-to-manage, subscription-free network security.

Powered by Zyxel Security Cloud, the USG LITE and SCR series feature best-in-class threat management capabilities. They detect malicious network activities, prevent ransomware and malware, block intrusions and exploits, and protect against threats from the dark web, ads, VPN proxies, mail fraud, and phishing. This offers small business owners comprehensive security without any subscription fees.

Highlights

- Subscription-free Security built-in as standard (inc. Ransomware/Malware Protection)
- The latest WiFi technology provides the fastest wireless connection speed possible.
- Self-configuring, plug-and-play deployment by Nebula Mobile app
- Central management via Zyxel Nebula Platform
- Auto VPN for easy deployment for site-to-site VPN Connectivity
- Up to 8 SSIDs with intergrade enterprise security and personal/guest access
- 2.5GbE ports provide premium wired connections
- Access security status and analytics through an informative dashboard
- Optional Elite Pack Licensing to increase functionality and security



Product Options

Model	USG LITE 60AX	SCR 50AXE
Product name	AX6000 WiFi 6 Security Router	AXE5400 WiFi 6E Security Router
		
Hardware		
Wireless standard	IEEE 802.11 ax/ac/n/a 5GHz IEEE 802.11 ax/n/b/g 2.4GHz	IEEE 802.11 ax 6GHz IEEE 802.11 ax/ac/n/a 5GHz IEEE 802.11 ax/n/b/g 2.4GHz
CPU	Quad-core, 2.00GHz	Dual-core, 1.00GHz, Cortex A53
RAM/FLASH	1GB/512MB	1GB/256MB
Interface	1 x WAN: 2.5GbE RJ-45 port 1 x LAN: 2.5GbE RJ-45 port 4 x LAN: 1GbE RJ-45 ports	1 x WAN: 1GbE RJ-45 port 4 x LAN: 1GbE RJ-45 ports
System Capacity & Performance*¹		
SPI firewall throughput LAN to WAN (Mbps)* ²	2,000	900
Throughput with threat intelligence on (Mbps)	2,000	900
VPN throughput* ³	300	55
Security Service		
Ransomware/Malware Protection	Yes	Yes
Intrusion Blocker	Yes	Yes
Dark Web Blocker	Yes	Yes
Stop Mail Fraud & Phishing	Yes	Yes
Block Ads	Yes	Yes
Block VPN Proxy	Yes	Yes
Web Filtering	Yes	Yes
Firewall	Yes	Yes
Country Restriction (GeoIP)	Yes	Yes
Allowlist/Blocklist	Yes	Yes
Identify Traffic (Applications & Clients)	Yes	Yes
Block Applications or Clients	Yes	Yes
Throttle Application Usage (BWM)	Yes	-
Security Event Analytics	Nebula Threat Report	Nebula Threat Report
VPN Features		
Site2site VPN	IPSec	IPSec
Remote VPN	Yes	-
Wireless Features		
Site-wide SSID provisioning from Nebula cloud	Yes	Yes
See wireless client info from the Nebula dashboard	Yes	Yes
WiFi encryption	WPA2-PSK, WPA3-PSK	WPA2-PSK, WPA3-PSK
SSID number	8	4
Auto/Fixed channel selection	Yes	Yes
MU-MIMO/Explicit beamforming	Yes	Yes
Networking		
WAN type	DHCP/Static IP/PPPoE	DHCP/Static IP/PPPoE
Networking features	Reserve IP (static DHCP) Block clients NAT - Virtual server DHCP server and DHCP relay Dynamic DNS (DDNS) Static route Guest Network VLAN Segmentation	Port forwarding Guest VLAN DHCP IP/MAC binding MAC filter
IPTV/MOD support	Yes	-
Management		
Site-wide SSID management	Yes	Yes
Multi-site management	Yes	Yes
Topology	Yes	Yes
Diagnostics	Yes	Yes
Remote support	Yes	Yes

*1: Actual performance may vary depending on system configuration, network conditions, and activated applications.

*2: Maximum throughput is measured using FTP with a 2GB file and 1,460-byte packets across multiple sessions.

*3: VPN throughput is measured based on RFC 2544 using 1,424-byte UDP packets

5G/4G Router Series

Zyxel offers a wide range of Nebula-managed 5G NR and 4G LTE routers, ideal for Fixed Wireless Access (FWA) across diverse business environments. These solutions eliminate the need for wired infrastructure, enabling fast, flexible deployments.

Our outdoor routers deliver stable connectivity in challenging environments, while indoor models provide reliable 5G/4G access as either a primary or backup connection. Designed for performance and simplicity, all devices support cloud-based management via Nebula, allowing centralized monitoring, configuration, and troubleshooting across multiple sites.

Highlights

- 5G NR downlink up to 5Gbps* (FWA710, FWA510, FWA505)
- IP68-rated weather protection (FWA710)
- Deploys WiFi 6 AX3600 (FWA510), AX1800 (FWA505)
- Supports SA/NSA mode and network slicing function (FWA710, FWA510, FWA505)

- Easily provision and manage networks in real-time from anywhere at any time, all centrally and seamlessly
- Free from wired connection
- Failover function (FWA510, FWA505, LTE3301-PLUS)

* The maximum data rate is a theoretical value. The actual data rate depends on the operator and network environment



Product Options

Model	Nebula FWA710				Nebula FWA510				Nebula FWA505			
Product Name	Nebula 5G NR Outdoor Router				Nebula 5G NR Indoor Router				Nebula 5G NR Indoor Router			
												
Download Data Rates	5Gbps*				5Gbps*				5Gbps*			
5G	Band	Freq (MHz)	Duplex									
	1	2100	FDD	Yes		Yes		Yes		Yes		
	3	1800	FDD	Yes		Yes		Yes		Yes		
	5	850	FDD	Yes		Yes		Yes		Yes		
	7	2600	FDD	Yes		Yes		Yes		Yes		
	8	900	FDD	Yes		Yes		Yes		Yes		
	20	800	FDD	Yes		Yes		Yes		Yes		
	28	700	FDD	Yes		Yes		Yes		Yes		
	38	2600	TDD	Yes		Yes		Yes		Yes		
	40	2300	TDD	Yes		Yes		Yes		Yes		
	41	2500	TDD	Yes		Yes		Yes		Yes		
	77	3700	TDD	Yes		Yes		Yes		Yes		
	78	3500	TDD	Yes		Yes		Yes		Yes		
	DL 4x4 MIMO			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	DL 2x2 MIMO			(n5/8/20/28 supports 2x2 only)	(n5/8/20/28 supports 2x2 only)	(n5/8/20/28 supports 2x2 only)	(n5/8/20/28 supports 2x2 only)	(n5/8/20/28 supports 2x2 only)	(n5/8/20/28 supports 2x2 only)	(n1/n3/n7/n38/n40/n41/n77/n78)	(n5/n8/n20/n28)	(n5/n8/n20/n28)
LTE	1	2100	FDD	Yes		Yes		Yes		Yes		
	2	1900	FDD	-		-		-		-		
	3	1800	FDD	Yes		Yes		Yes		Yes		
	4	1700	FDD	-		-		-		-		
	5	850	FDD	Yes		Yes		Yes		Yes		
	7	2600	FDD	Yes		Yes		Yes		Yes		
	8	900	FDD	Yes		Yes		Yes		Yes		
	12	700a	FDD	-		-		-		-		
	13	700c	FDD	-		-		-		-		
	20	800	FDD	Yes		Yes		Yes		Yes		
	25	1900+	FDD	-		-		-		-		
	26	850+	FDD	-		-		-		-		
	28	700	FDD	Yes		Yes		Yes		Yes		
	29	700d	FDD	-		-		-		-		
	38	2600	FDD	Yes		Yes		Yes		Yes		
	40	2300	TDD	Yes		Yes		Yes		Yes		
	41	2500	TDD	Yes		Yes		Yes		Yes		
	42	3500	TDD	Yes		Yes		Yes		Yes		
	43	3700	TDD	Yes		Yes		Yes		Yes		
	66	1700	FDD	-		-		-		-		
	DL CA			Yes		Yes		Yes		Yes		
	UL CA			Yes		Yes		Yes		Yes		
	DL 4x4 MIMO			B1/B3/B7/B32/B38/B40/B41/B42		B1/B3/B7/B32/B38/B40/B41/B42		B1/B3/B7/B32/B38/B40/B41/B42		B1/B3/B7/B32/B38/B40/B41/B42		
	DL 2x2 MIMO			Yes		Yes		Yes		Yes		
	DL 256-QAM			Yes		Yes		Yes		256-QAM/256-QAM		
	DL 64-QAM			Yes		Yes		Yes		Yes		
	UL 64-QAM			Yes (supports 256QAM)		Yes (supports 256QAM)		Yes (supports 256QAM)		Yes (supports 256QAM)		
	UL 16-QAM			Yes		Yes		Yes		Yes		
	MIMO (UL/DL)			2x2/4x4		2x2/4x4		2x2/4x4		2x2/4x4		
3G	1	2100	FDD	Yes		Yes		Yes		Yes		
	3	1800	FDD	Yes		Yes		Yes		Yes		
	5	2100	FDD	Yes		Yes		Yes		Yes		
	8	900	FDD	Yes		Yes		Yes		Yes		
WiFi	802.11n 2x2			Yes**		Yes		Yes		Yes		
	802.11ac 2x2			-		Yes		Yes		Yes		
	802.11ax 2x2			-		Yes		Yes		Yes		
	802.11ax 4x4			-		Yes		Yes		-		
	Number of users			-		Up to 64		Up to 64		Up to 64		
Ethernet	GbE LAN			2.5GbE x1 (PoE)		2.5GbE x2		2.5GbE x2		1GbE x2		
	WAN			-		2.5GbE x1 (reuse LAN 1)		2.5GbE x1 (reuse LAN 1)		x1 (reuse LAN 1)		
SIM slot	Micro/Nano SIM slot			Micro SIM		Micro SIM		Micro SIM		Micro SIM		
Power	DC input			PoE 48V		DC 12V		DC 12V		DC 12V		
Ingress protection	Network processor			IP68		-		-		-		

* The maximum data rate is a theoretical value. The actual data rate depends on the operator.

** WiFi is used for management purpose only.

Model		Nebula LTE3301-PLUS		
Product Name		Nebula 4G LTE-A Indoor Router		
				
Download Data Rates		300Mbps*		
5G	Band	Freq (MHz)	Duplex	
	1	2100	FDD	-
	3	1800	FDD	-
	5	850	FDD	-
	7	2600	FDD	-
	8	900	FDD	-
	20	800	FDD	-
	28	700	FDD	-
	38	2600	TDD	-
	40	2300	TDD	-
	41	2500	TDD	-
	77	3700	TDD	-
	78	3500	TDD	-
	DL 4x4 MIMO			-
	DL 2x2 MIMO			Yes
LTE	1	2100	FDD	Yes
	2	1900	FDD	-
	3	1800	FDD	Yes
	4	1700	FDD	-
	5	850	FDD	Yes
	7	2600	FDD	Yes
	8	900	FDD	Yes
	12	700a	FDD	-
	13	700c	FDD	-
	20	800	FDD	Yes
	25	1900+	FDD	-
	26	850+	FDD	-
	28	700	FDD	Yes
	29	700d	FDD	-
	38	2600	FDD	-
	40	2300	TDD	Yes
	41	2500	TDD	Yes
	42	3500	TDD	-
	43	3700	TDD	-
	66	1700	FDD	-
	DL CA			B1+B1/B5/B8/B20/B28 B3+B3/B5/B7/B8/B20/B28 B7+B5/B7/B8/B20/B28 B38+B38; B40+B40; B41+B41
	UL CA			-
	DL 4x4 MIMO			-
	DL 2x2 MIMO			Yes
	DL 256-QAM			-
	DL 64-QAM			Yes
	UL 64-QAM			-
	UL 16-QAM			-
	MIMO (UL/DL)			2x2
3G	1	2100	FDD	Yes
	3	1800	FDD	-
	5	2100	FDD	Yes
	8	900	FDD	Yes
WiFi	802.11n 2x2			Yes
	802.11ac 2x2			Yes
	802.11ax 2x2			-
	802.11ax 4x4			-
Ethernet	Number of users			Up to 32
	LAN			1GbE x4
SIM slot	WAN			1GbE x1 (reuse LAN 1)
	Micro/Nano SIM slot			Micro SIM
Power	DC input			DC 12V
Ingress protection				-

* The maximum data rate is a theoretical value. The actual data rate depends on the operator.

License information

Per-device License Model

Nebula’s per-device licensing allows IT teams to maintain various expiration dates across devices, sites or organizations. Each Organization can have a single

shared expiration, which will be manageable through our new Circle license management platform for channel partners, namely Subscription Alignment.

Flexible Management License Subscription

Nebula Control Center (NCC) offers subscription options to fit your needs—from a basic free plan for easy peace of mind to advanced cloud network management with greater control and visibility. Nebula is here to help.

Base/Plus/Pro Pack is on a per-device license basis and mandates that all devices within an organization use

the same license type, ensuring a simplified, seamless cloud management experience across the entire organization.

Nebula MSP Pack enables cross-organization management, helping MSPs streamline multi-tenant, multi-site deployments and deliver superior service.



MSP Pack

Per-admin user account license that includes cross-org management features tailored for MSPs, and is used in conjunction with org-based management features/licenses (Base/Plus/Pro Pack).

- MSP portal
- Admins & teams
- Cross-org synchronization
- Backup & restore
- Alert templates
- Firmware upgrades
- Change log
- MSP branding



Base Pack

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



Plus Pack

Add-on feature set/service with all Nebula Base Pack features plus popular advanced features for enhanced network control and visibility.



Pro Pack

Full feature/service with all Nebula Plus Pack features plus advanced tools for maximum NCC manageability across devices, sites, and organizations.

NCC Organization Management License Pack Feature Table

M	R	F	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 (SSID/PoE/Firewall Rules)	•	•	•
			✓	✓	MAC-Based and 802.1X Authentication	•	•	•
		✓		✓	Captive Portal Authentication	•	•	•
•	✓	✓	✓	✓	Email Users and Alert Notifications	•	•	•
•	✓	✓	✓	✓	Exempted from Cloud Saving Mode		•	•
•	✓	✓	✓	✓	Advanced Firmware Scheduling (Org/Site/Device)		•	•
•		✓	✓	✓	Advanced Reporting Features (including Export/Email Reports/Scheduled Reports – Custom Logo)		•	•
•	✓	✓	✓	✓	Automatic Network Topology (Visual and Actionable)		•	•
				✓	WiFi Vouchers (Auto-Gen Vouchers for Access/Authentication with User Defined Time Limits)		•	•
			✓		Advanced Switch Control (Vendor Based VLAN, Auto PD Recovery)		•	•
•	✓	✓	✓	✓	Organizational User Audit/Change Logs			•

M = Management Feature (NCC)

R = 5G/4G Mobile Router Feature

F = Firewall Feature

S = Switch Feature

W = Wireless Feature

M	R	F	S	W	Feature Name	Base Pack	Plus Pack	Pro Pack
•			✓	✓	Organizational-wide Configuration Sync, Replicate, and Template			•
•	✓	✓	✓	✓	Configuration Backup/Restore			•
•	✓	✓	✓	✓	Remote CLI Access/Configurator			•
•	✓	✓	✓	✓	Priority Nebula Support Request (Direct NCC incl. Web Chat)			•
•	✓	✓	✓	✓	Open API for Ecosystem Partner Application Integration			•
•		✓		✓	Advanced Client Connection Monitoring & Trouble Shooting (WiFi Aid, Connection Log)			•
			✓		Advanced WiFi AAA Security (Dynamic Personal PSK, Dynamic VLAN Assignment via NCAS, 3rd Party AAA Integration incl. Captive Portal MAC Auth. Fallback)			•
			✓		Advanced WiFi Control & Management (RSSI Threshold Setting per AP, Export NAT AP Traffic Log, Programmable SSID & PSK)			•
•			✓		Advanced Client Connection Monitoring & Trouble Shooting (WiFi Aid, Connection Log)			•
			✓		WiFi Health Monitoring and Report (AI/Machine Learning for Wireless)			•
			✓		Switch IP Interfacing & Static Routing			•
			✓		Switch Stacking (Physical Stacking)			•
			✓		Switch Surveillance Monitoring			•
			✓		Switch IPTV Feature Set (Advanced IGMP, IPTV Report w. AI/ML Alert)			•
			✓		Switch Port Advisor (Health & Security Analysis Monitoring and Alerting)			•
		✓			Zyxel CNM SecuReporter Traffic Log Archiving			•
		✓			Firewall Advanced VPN Feature Set (VPN Topology, VPN Traffic Usage, SD-VPN, L2TP/IPSec VPN Client Script Provisioning)			•
		✓		✓	Collaborative Detection & Response (CDR) with Automatically Respond Action (USG FLEX & ATP Series Only)			•
✓					Client Device Heartbeat (LAN Device Alive Monitoring)			•

M = Management Feature (NCC)
 R = 5G/4G Mobile Router Feature
 F = Firewall Feature
 S = Switch Feature
 W = Wireless Feature

Flexible Security License Subscription

With the addition of ATP, USG FLEX and USG FLEX H series firewall to the Nebula cloud management family, Nebula security solution further expands its offerings with holistic security and protection for SMB business networks.

Furthermore, the new cloud-based access point security service — Connect & Protect (CNP) provides a value-added protection to ensure a secure and smooth small business WiFi.



Gold Security Pack

A complete feature set for ATP, USG FLEX and USG FLEX H series to perfectly fit SMBs' requirements as well as to enable the maximum performance and security with an all-in-one appliance. This pack not only supports all Zyxel security services but also Nebula Professional Pack.



Elite Pack

Security Router license to provide access to full Web Filtering, categories, allowing for tracking and regulating website access based on content. It also upgrades Ransomware Prevention Premium for real-time threat intelligence and unlocks advanced Nebula Pro features.



Entry Defense Pack

Entry Defense Pack offers fundamental protection for USG FLEX H series. It features Reputation Filter to block cyberthreats, SecuReporter for clear visual insights into your network's security, and Priority Support for expert assistance when you need it most.



Secure WiFi

"An a la carte" USG FLEX license to manage remote access points (RAP) with the support of secured tunnel to extend corporate network to remote workplace.



UTM Security Pack

All-in-one UTM security service license add-on(s) to USG FLEX Series Firewall, which includes Web Filtering, IPS, Application Patrol, Anti-Malware, SecuReporter, Collaborative Detection & Response, and Security Profile Sync.



Connect & Protect (CNP)

Cloud-mode access point license to provide Threat Protection & App Visibility with throttling to ensure a secure and smooth wireless network.



Content Filter Pack

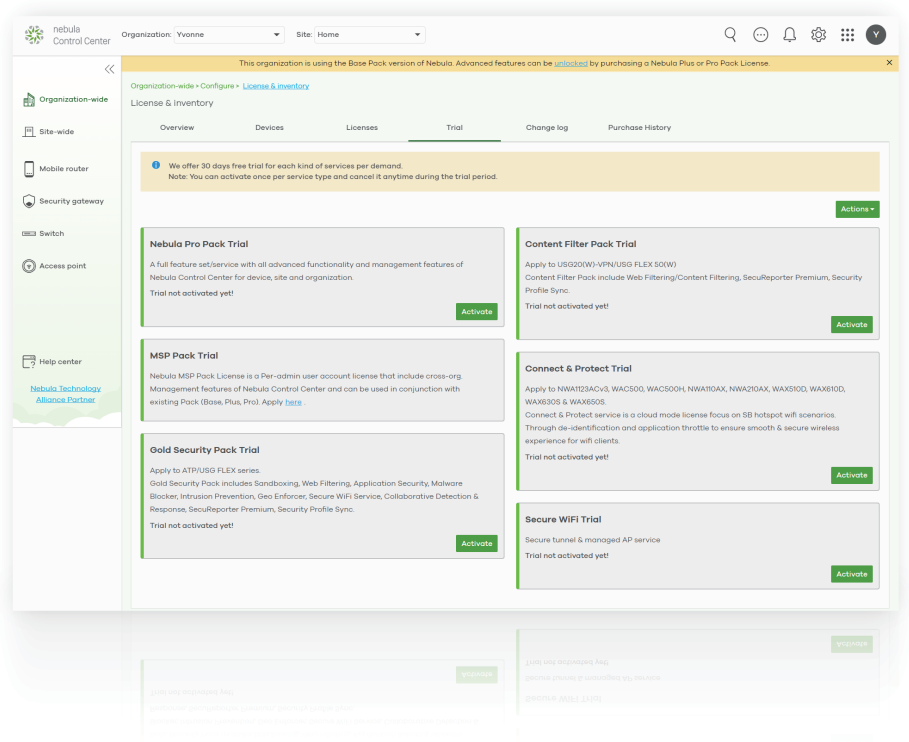
Three-in-one security service license add-on(s) to USG FLEX 50, which includes Web Filtering, SecuReporter, and Security Profile Sync.

Service related information

30-day Free Trial

Nebula offers the flexibility, on a per organization basis, to users for them to decide which license(s) they want to trial and when they want to trial according to their needs. For both new and existing organizations, users

can freely choose the license(s) they want to trial at their preferable time as long as they didn't use the license(s) before.



Nebula Community

The Nebula community 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 everything the Nebula products can do. Visit Nebula community to explore more.

URL: <https://community.zyxel.com/en/categories/nebula>

Support Request

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, and will be reviewed and followed by a dedicated group until the proper resolutions are found.

* Available for Professional Pack users.

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