



Unlock Networking Possibilities with Cloud

Nebula Secure Cloud Networking Solution
Solution Guide



We help you make everything easier



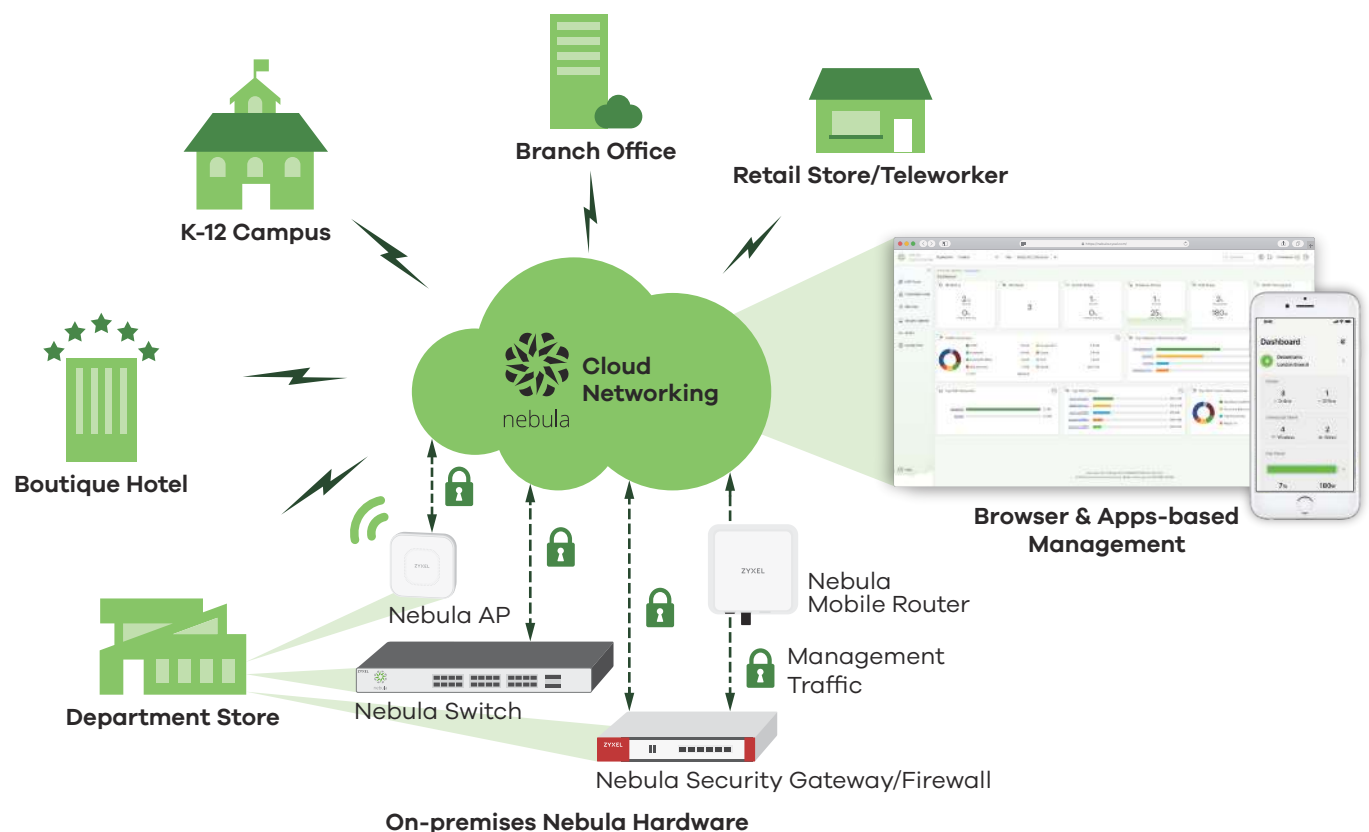
Overview

Nebula secure cloud networking solution provides cloud-based, centralized control and visibility over all Nebula wired, wireless, security, 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, and Nebula 5G/LTE 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, and 5G/LTE 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.

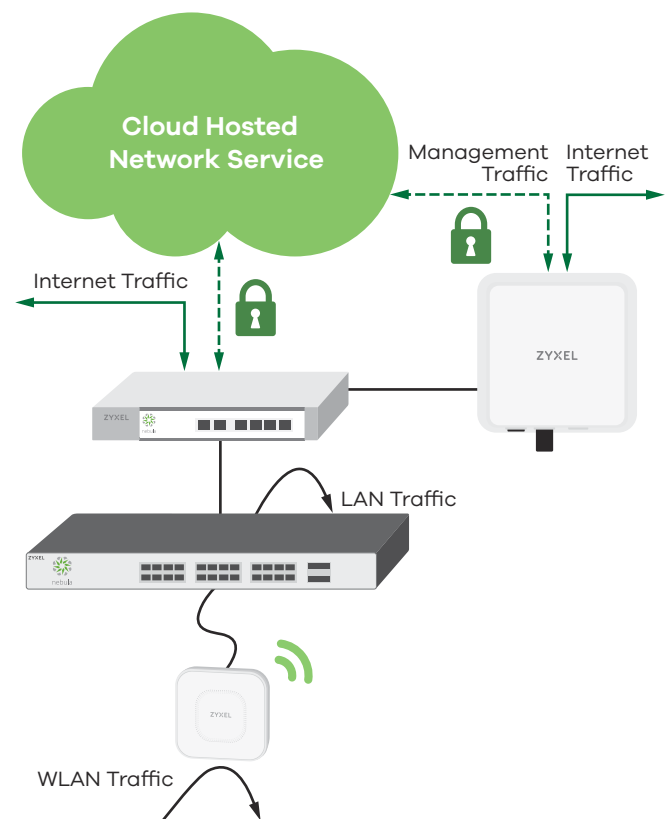
All Nebula devices are built from the ground up for cloud management with the capability to communicate with Nebula's cloud control center through the Internet. This TLS-secured connectivity between hardware and the cloud provides network-wide visibility and control for network management using the minimal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



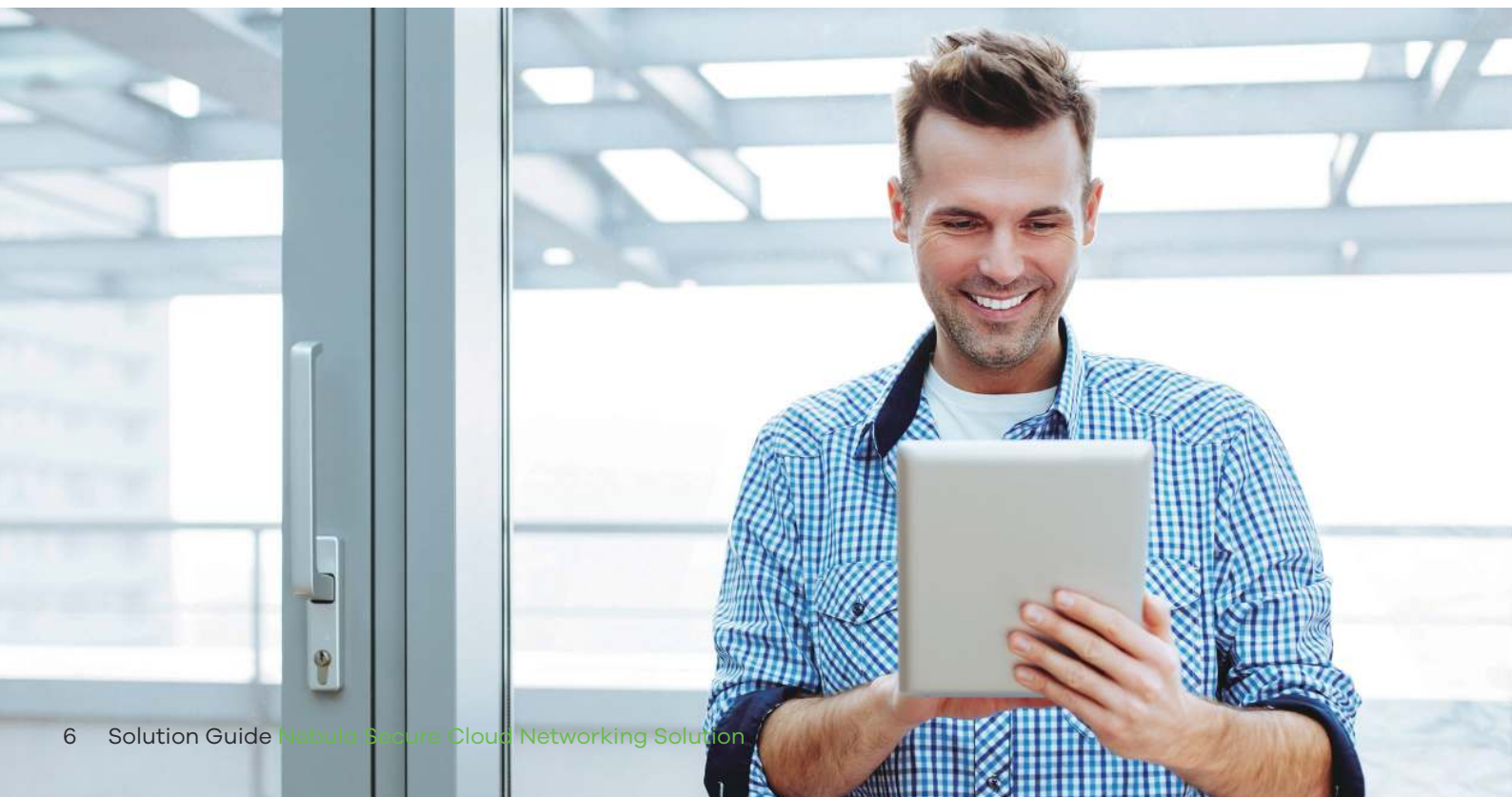
Features of the Nebula Architecture:

- 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

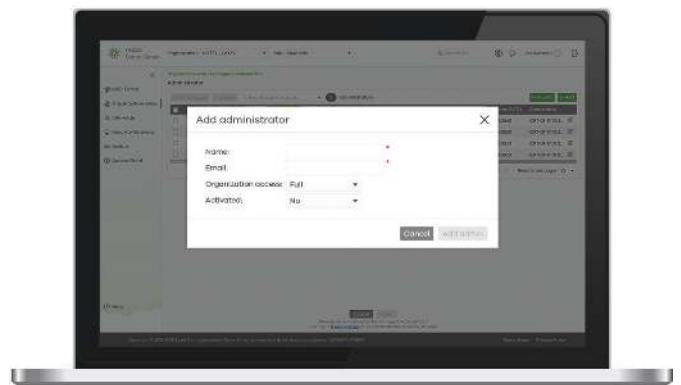
- Responsive web design and intuitive user interface with light & dark modes
- Multi-lingual management interface (English, Traditional Chinese, Japanese, German, French, Russian and more to come)
- Multi-tenant, multi-site manageability
- Role-based administration privileges
- First time setup wizard
- 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

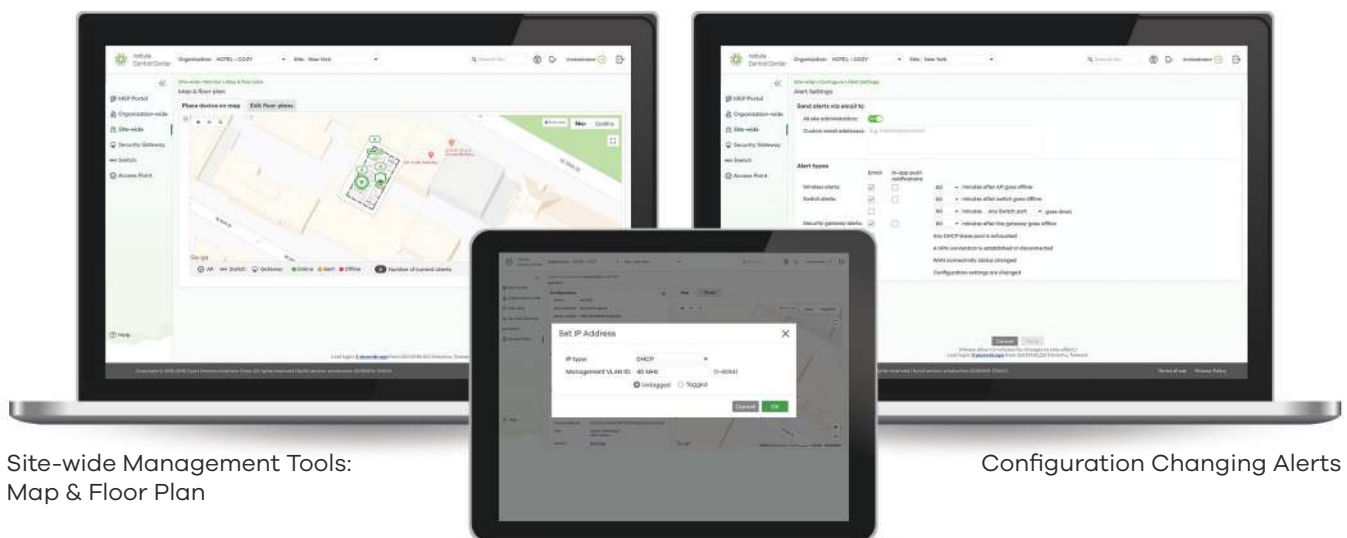
Configuration changing alerts help administrators to manage thousands of networking devices more efficiently, especially in larger or distributed sites. These real-time alerts are automatically sent from the Nebula Cloud system when configuration changes are made to keep new policies always up-to-date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

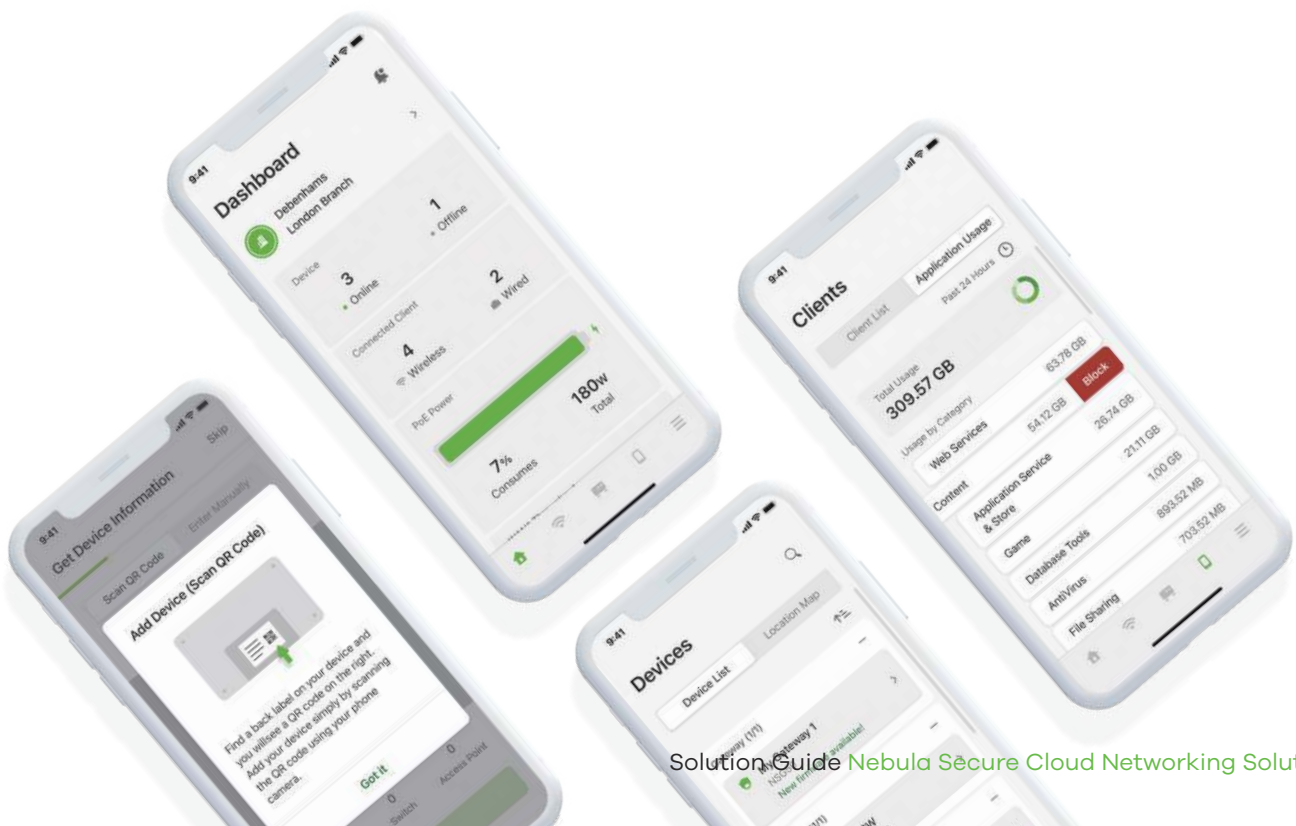
Nebula Mobile App

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
- Centralize 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 info
- 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
- Live trouble shooting tools: reboot, Locator LED, switch port power cycle, cable diagnostics, connection test
- Tech support and MSP contact info
- Push notifications - Device down/up & license issue related
- Notification center up to 7 days alert history



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	NWA50AX	NWA90AX	NWA55AXE	NWA110AX
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 Outdoor PoE Access Point	802.11ax (WiFi 6) Dual-Radio PoE Access Point
				
Typical deployment	Small business, Entry-level establishments	Small business, Entry-level establishments	Outdoor, Entry-level establishments	Entry-level wireless establishments
Radio specification	• 1 x 802.11 b/g/n/ax radio • 1 x 802.11 a/n/ac/ax radio • 1.775 Gbps max rate • 2x2 + 2x2 MU-MIMO	• 1 x 802.11 b/g/n/ax radio • 1 x 802.11 a/n/ac/ax radio • 1.775 Gbps max rate • 2x2 + 2x2 MU-MIMO	• 1 x 802.11 b/g/n/ax radio • 1 x 802.11 a/n/ac/ax radio • 1.775 Gbps max rate • 2x2 MU-MIMO	• 1 x 802.11 b/g/n/ax radio • 1 x 802.11 a/n/ac/ax radio • 1.775 Gbps max rate • 2x2:2 + 2x2:2 MU-MIMO
Power	DC input: 12 VDC 1.5 A PoE (802.3at): power draw 16 W	DC input: 12 VDC 1.5 A PoE (802.3at): power draw 16 W	DC input: 12 VDC 1.5 A PoE (802.3at): power draw 16 W	DC input: 12 VDC 1.5 A PoE (802.3at): power draw 17 W
Antenna	Embedded antenna	Embedded antenna	External antenna	Embedded 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, social login with Facebook accounts, Facebook WiFi, and Voucher
- Support smart mesh and wireless bridge
- Wireless health monitoring and report

Access Points with NebulaFlex Product Options

Model	NWA210AX	NWA1123ACv3	NWA1123-AC PRO
Product name	802.11ax (WiFi 6) Dual-Radio PoE Access Point	802.11ac Wave 2 Dual-Radio Ceiling Mount PoE Access Point	802.11ac Dual-Radio Dual-Mount Access Point
  			
Typical deployment	Medium to high density deployments	Entry-level wireless establishments	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 • 2.975 Gbps max rate • 4x4:4 + 2x2:2 MU-MIMO	• 1 x 802.11 b/g/n radio • 1 x 802.11 a/n/ac radio • 1.2 Gbps max rate • 2x2 MU-MIMO	• 1 x 802.11 b/g/n radio • 1 x 802.11 a/n/ac radio • 1.75 Gbps max rate • 3x3 MIMO with 3 streams
Power	DC input: 12 VDC 2 A PoE (802.3at): power draw 19 W	DC input: 12 VDC, 1 A PoE (802.3af): power draw 11 W	802.3at PoE only (No DC jack)
Antenna	Embedded antenna	Embedded antenna	Dual-optimized internal antenna

* Bundled licenses are not applicable to NebulaFlex AP.

Access Points with NebulaFlex Pro Product Options

Model	WAX510D	WAX610D	WAX630S
Product name	802.11ax (WiFi 6) Dual-Radio Unified Access Point	802.11ax (WiFi 6) Dual-Radio Unified Pro Access Point	802.11ax (WiFi 6) Dual-Radio Unified Pro Access Point
			
Typical deployment	Entry-level wireless establishments	Medium to high density deployments	High density and interference-laden indoor environments
Radio specification	• 1 x 802.11 b/g/n/ax radio • 1 x 802.11 a/n/ac/ax radio • 1.775 Gbps max rate • 2x2:2 + 2x2:2 MU-MIMO	• 1 x 802.11 b/g/n/ax radio • 1 x 802.11 a/n/ac/ax radio • 2.975 Gbps max rate • 4x4:4 + 2x2:2 MU-MIMO	• 1 x 802.11 b/g/n/ax radio • 1 x 802.11 a/n/ac/ax radio • 2.975 Gbps max rate • 4x4 + 2x2:2 MU-MIMO
Power	DC input: 12 VDC 1.5 A PoE (802.3at): power draw 17 W	DC input: 12 VDC 2 A PoE (802.3at): power draw 19 W	DC input: 12 VDC 2 A PoE (802.3at): power draw 19 W
Antenna	Dual-optimized internal antenna	Dual-optimized antenna	Embedded smart antenna

Model	WAX650S	NWA5123-AC HD	WAC5302D-Sv2
Product name	802.11ax (WiFi 6) Dual-Radio Unified Pro Access Point	802.11ac Wave 2 Dual-Radio Unified Access Point	802.11ac Dual-Radio Unified Access Point
			
Typical deployment	High density and interference-laden indoor environments	Medium to high density deployments	Per-room 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 • 3.55 Gbps max rate • 4x4:4 + 4x4:4 MU-MIMO	• 1 x 802.11 b/g/n radio • 1 x 802.11 a/n/ac radio • 1.6 Gbps max rate • 3x3 MIMO with 3 streams (MU-MIMO)	• 1 x 802.11 b/g/n radio • 1 x 802.11 a/n/ac radio • 1.6 Gbps max rate • 2x2 MU-MIMO
Power	DC input: 12 VDC 2.5 A PoE (802.3bt): power draw 31 W	DC input: 12 VDC, 2 A PoE: 802.3at compliant/802.3af (Restrict 2.4G & 5G radio to one transmit stream only.)	PoE (802.3at): power draw 20 W (includes 7 W for PoE PSE) PoE (802.3af): power draw 12 W (PoE PSE disabled)
Antenna	Embedded smart antenna	Embedded antenna	Smart antenna

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

Access Points with NebulaFlex Pro Product Options

Model	WAC500	WAC500H	WAC6103D-I
Product name	802.11ac Wave 2 Dual-Radio Unified Access Point	802.11ac Wave 2 Wall-Plate Unified Access Point	802.11ac Dual-Radio Dual-optimized Antenna 3x3 Access Point
			
Typical deployment	Entry-level wireless establishments	Per-room deployments	Medium to high density deployments
Radio specification	• 1 x 802.11 b/g/n radio • 1 x 802.11 a/n/ac radio • 1.2 Gbps max rate • 2x2 MU-MIMO	• 1 x 802.11 b/g/n radio • 1 x 802.11 a/n/ac radio • 1.2 Gbps max rate • 2x2 MU-MIMO	• 1 x 802.11 b/g/n radio • 1 x 802.11 a/n/ac radio • 1.75 Gbps max rate • 3x3 MIMO with 3 streams
Power	DC input: 12 VDC, 1 A PoE (802.3af): power draw 11 W	DC input: 12 VDC, 1 A PoE (802.3at/af): power draw 18 W	802.3at PoE only
Antenna	Embedded antenna	Embedded antenna	Dual optimized antenna

Model	WAC6303D-S	WAC6503D-S	WAC6552D-S	WAC6553D-E
Product name	802.11ac Wave 2 Dual-Radio Unified Pro Access Point	802.11ac Dual-Radio Smart Antenna 3x3 Access Point	802.11ac Dual-Radio Unified Pro Outdoor Access Point	802.11ac Dual-Radio External Antenna 3x3 Outdoor Access Point
				
Typical deployment	High density and interference-laden indoor environments	High density and interference-laden indoor environments	Outdoor	Outdoor
Radio specification	• 1 x 802.11 b/g/n radio • 1 x 802.11 a/n/ac radio • 1.6 Gbps max rate • 3x3 MIMO with 3 streams (MU-MIMO)	• 1 x 802.11 b/g/n radio • 1 x 802.11 a/n/ac radio • 1.75 Gbps max rate • 3x3 MIMO with 3 streams	• 1 x 802.11 b/g/n radio • 1 x 802.11 a/n/ac radio • 1.2 Gbps max rate • 2x2 MIMO with 2 streams	• 1 x 802.11 b/g/n radio • 1 x 802.11 a/n/ac radio • 1.75 Gbps max rate • 3x3 MIMO with 3 streams
Power	DC input: 12 VDC, 2 A PoE: 802.3at compliant/ 802.3af (Restrict 2.4G & 5G radio to one transmit stream only.)	DC input: 12 VDC 2 A PoE: 802.3at compliant	802.3at PoE only	802.3at PoE only
Antenna	Embedded smart antenna	Embedded smart antenna	Embedded smart antenna	External 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 include XS3800-28, GS2220 Series, and GS1350 Series, which are further bundled with a 1-year Professional Pack license. XS3800-28 and GS2220 Series switches come with NebulaFlex Pro, allowing you to use the advanced features including the advanced IGMP technology, the comprehensive IPTV report that provides insights to

channel usage information, the network analytics alert to optimize network performance, and more upcoming new features on NCC. 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	GS1915-8	GS1915-8EP
Product name	8-port GbE Smart Managed Switch	8-port GbE Smart Managed PoE Switch
		
Switch class	Smart Managed	Smart Managed
Total port count	8	8
100/1000 Mbps	8	8
100/1000 Mbps PoE	-	8
Gigabit SFP	-	-
Gigabit combo (SFP/RJ-45)	-	-
Switching capacity (Gbps)	16	16
Total PoE power budget (watts)	-	60

* Bundled licenses are not applicable to NebulaFlex switches.

Highlights

- Smart fan and fanless designs offer silent operations in the office
- Check real-time status intuitively by cloud and PoE LED indicators
- Handles the increasing high-bandwidth applications in your office affordably with four built-in 10G SFP+ uplinks (XGS1930 Series)
- The Multi-Gigabit (100M/1G/2.5G/5G/10G) switches that can step up the network bandwidth via the cloud
- 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
- Flexible to switch between standalone and Nebula Cloud management without additional costs
- 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
- 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 PD Recovery to detect and recover failed powered devices automatically

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
100/1000 Mbps	8	24	24	44	44
100/1000 Mbps PoE	8	-	24	-	48
Gigabit SFP	-	-	-	2	2
Gigabit 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
Product name	8-port Multi-Gigabit Smart Managed Switch with 2 SFP+ Uplink	8-port Multi-Gigabit Smart Managed PoE Switch with 2 10GbE and 2 SFP+ Uplink	10-port 10G Smart Managed Fiber Switch with 2 Multi-Gigabit Ports
			
Switch class	Smart Managed	Smart Managed	Smart Managed
Total port count	10	12	12
100M/1G/2.5G/5G/10G Ethernet (RJ-45)	8	2	2
100M/1G/2.5G/5G/10G Ethernet PoE++ (RJ-45)	-	8	-
10 Gigabit SFP+	2	2	10
Switching capacity (Gbps)	200	240	240
Total PoE power budget (watts)	-	375	-

Model	XGS1930-28	XGS1930-28HP	XGS1930-52	XGS1930-52HP
Product name	24-port GbE Smart Managed Switch with 4 SFP+ Uplink	24-port GbE Smart Managed PoE Switch with 4 SFP+ Uplink	48-port GbE Smart Managed Switch with 4 SFP+ Uplink	48-port GbE Smart Managed PoE Switch with 4 SFP+ Uplink
				
Switch class	Smart Managed	Smart Managed	Smart Managed	Smart Managed
Total port count	28	28	52	52
100/1000 Mbps	24	24	48	48
100/1000 Mbps PoE	-	24	-	48
10 Gigabit 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
100/1000 Mbps	-	2	-	-
100/1000 Mbps PoE+	5 (port 1-2 PoE++)	8	16	24
Gigabit SFP	1	2	-	-
Gigabit combo (SFP/RJ-45)	-	-	2	2
Switching capacity (Gbps)	12	24	36	52
Total PoE power budget (watts)	60	130	250	375

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	Layer 2	Layer 2	Layer 2
Total port count	10	10	28	28
100/1000 Mbps	8	8	-	-
100/1000 Mbps PoE+	-	8	-	24
Gigabit SFP	-	-	-	-
Gigabit combo (SFP/RJ-45)	2	2	4	4
Switching capacity (Gbps)	20	20	56	56
Total PoE power budget (watts)	-	180	-	375

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	Layer 2
Total port count	50	50
100/1000 Mbps	44	44
100/1000 Mbps PoE+	-	48
Gigabit SFP	2	2
Gigabit combo (SFP/RJ-45)	4	4
Switching capacity (Gbps)	100	100
Total PoE power budget (watts)	-	375

Model	XS3800-28
Product name	28-port 10GbE L2+ Managed Switch*
	
Switch class	Layer 2 Plus
Total port count	28
100M/1G/2.5G/5G/10G Ethernet (RJ-45)	4
Multi-Gigabit combo (100M/1G/2.5G/5G/10G RJ-45/SFP+)	8
10 Gigabit SFP+	16
Switching capacity (Gbps)	560

* Routing & IP interfaces are only available in standalone mode for now.

Firewall Series

Zyxel's firewalls are the newest addition to the Nebula cloud management family, and it further optimizes Nebula with holistic security and protection for SMB business networks. Zyxel's firewalls are capable of authenticating individuals and devices for all scenarios, especially for remote applications. This enables it to extend and secure your distributed network anywhere, anyhow, easily and affordably. Zyxel's firewalls deliver high performance, ensures comprehensive protection

as a self-evolving solution, and synchronizes your security to fit into all kinds of networks. Our integrated cloud threat intelligence will automatically stop threats at the network edge by blocking or quarantining, preventing damage to the network. We also provide up-to-the-minute protection with detailed reporting on investigations, threat preventions, active monitoring, and high visibility of network activities in today's ever-changing, ever-more-complex network environments.

Highlights

- Higher precision of detection and assurance of multi-layered protection uncover threats
- Collaborating policy enforcement devices and eliminating repetitive logins with Collaborative Detection & Response
- 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
- High assurance multi-layered protection includes IP/URL/DNS reputation filter (ATP only), app patrol, web filtering, anti-malware and IPS
- Cloud sandboxing technology prevents zero-day attacks of all sorts (ATP only)
- Comprehensive summary reports for security events and network traffic through SecuReporter service
- Flexible to switch between on-premise and Nebula Cloud management without additional costs
- Enjoy cloud features like Zero Touch Provisioning (ZTP), real-time configurations with Nebula



Product Options

Model	ATP100W	ATP200	ATP500	ATP700	ATP800
Product name	ATP Firewall	ATP Firewall	ATP Firewall	ATP Firewall	ATP Firewall
					
System Capacity & Performance^{*1}					
SPI firewall throughput (Mbps) ^{*2}	1,000	2,000	2,600	6,000	8,000
VPN throughput (Mbps) ^{*3}	300	500	900	1,200	1,500
IPS throughput (Mbps) ^{*4}	600	1200	1,700	2,200	2,700
Anti-malware throughput (Mbps) ^{*4}	380	630	900	1,600	2,000
UTM throughput (AV and IDP) ^{*4}	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	1,000	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
Geo Enforcer ^{*7}	Yes	Yes	Yes	Yes	Yes
SecuReporter Premium ^{*7}	Yes	Yes	Yes	Yes	Yes
Collaborative Detection & Response ^{*7}	Yes	Yes	Yes	Yes	Yes
Service Insight	Yes	Yes	Yes	Yes	Yes
Security Profile Synchronize (SPS) ^{*7}	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	12	20	36	132	260
Maximum Number of Managed AP	24	40	72	264	520
Recommend max. AP in 1 AP Group	10	20	60	200	300

Note:

*: This matrix with firmware ZLD5.2 or later.

*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.

Product Options

Model	USG20(W)-VPN	USG FLEX 100(W)	USG FLEX 200	USG FLEX 500	USG FLEX 700
Product name	VPN Firewall	ZyWALL USG FLEX 100(W) Firewall	ZyWALL USG FLEX 200 Firewall	ZyWALL USG FLEX 500 Firewall	ZyWALL USG FLEX 700 Firewall
					
System Capacity & Performance^{*1}					
SPI firewall throughput ^{*2} (Mbps)	350	900	1,800	2,300	5,400
VPN throughput (Mbps)	90	270	450	810	1,100
VPN IMIX Throughput (Mbps) ^{*3}	40	100	160	240	550
IPS throughput ^{*4} (Mbps)	-	540	1100	1,500	2,000
Anti-Malware throughput (Mbps) ^{*4}	-	360	570	800	1,450
UTM throughput (Anti-malware & IPS, Mbps) ^{*4}	-	360	550	800	1,350
Max. TCP concurrent sessions ^{*5}	20,000	300,000	600,000	1,000,000	1,600,000
Max. concurrent IPsec VPN tunnels ^{*6}	10	40	100	300	500
Recommended gateway-to-gateway IPsec VPN tunnels	5	20	50	150	250
Concurrent SSL VPN users	5/15	30	60	150	150
VLAN interface	8	8	16	64	128
Security Service					
Anti-Malware ^{*7}	-	Yes	Yes	Yes	Yes
IPS ^{*7}	-	Yes	Yes	Yes	Yes
Application Patrol ^{*7}	-	Yes	Yes	Yes	Yes
Email Security	-	Yes	Yes	Yes	Yes
Web Filtering ^{*7}	Yes	Yes	Yes	Yes	Yes
SecuReporter ^{*7}	Yes	Yes	Yes	Yes	Yes
Collaborative Detection & Response ^{*7}	-	Yes	Yes	Yes	Yes
SSL (HTTPS) inspection	-	Yes	Yes	Yes	Yes
2-Factor Authentication	Yes	Yes	Yes	Yes	Yes
Device Insight	Yes	Yes	Yes	Yes	Yes
Security Profile Synchronize (SPS) ^{*7}	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	-	10	10	18	66
Maximum Number of Managed AP	-	24	40	72	264
Recommend max. AP in 1 AP Group	-	10	20	60	200

Note:

*: This matrix with firmware ZLD5.2 or later.

*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.

5G/LTE Router Series

Zyxel 5G/LTE routers are the newest addition to the Nebula cloud management family, and it further optimizes Nebula with more comprehensive and unified solutions for SMB networks.

Zyxel offers wide 5G NR and 4G LTE product portfolio. From indoor to outdoor, Zyxel's offerings are suitable for a wide range of deployment scenarios and a variety of network infrastructures, freeing yourself from cabled

installation. Outdoor router offers internet connectivity that utilizes state-of-the-art wireless network technology, and thanks to its outdoor-friendly design, it is now possible to work in harsh environments. Indoor router can be a backup or primary connection through 5G/LTE for your business. Enjoy a superior mobile network experience in any occasions and easily expand businesses with our wireless broadband solutions.

Highlights

- 5G NR downlink up to 5 Gbps* (NR7101, NR5101)
- IP68-rated weather protection (NR7101)
- Deploys AX1800 WiFi 6 (NR5101)
- Supports SA/NSA mode and network slicing function (NR7101, NR5101)

- Easy installation via free mobile app for finding the best installation signal spot
- Free from wired connection
- Failover function

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



Product Options

Model	Nebula NR7101				Nebula NR5101				Nebula LTE3301-PLUS			
Product Name	Nebula 5G NR Outdoor Router				Nebula 5G NR Indoor Router				Nebula 4G LTE-A Indoor Router			
Download Data Rates	5 Gbps*				5 Gbps*				300 Mbps*			
5G	Band	Freq (MHz)	Duplex									
	1	2100	FDD	Yes		Yes		-				
	3	1800	FDD	Yes		Yes		-				
	5	850	FDD	Yes		Yes		-				
	7	2600	FDD	Yes		Yes		-				
	8	900	FDD	Yes		Yes		-				
	20	800	FDD	Yes		Yes		-				
	28	700	FDD	Yes		Yes		-				
	38	2600	TDD	Yes		Yes		-				
	40	2300	TDD	Yes		Yes		-				
	41	2500	TDD	Yes		Yes		-				
	77	3700	TDD	Yes		Yes		-				
	78	3500	TDD	Yes		Yes		-				
	DL 4x4 MIMO			Yes (n5/8/20/28 supports 2x2 only)				Yes (n5/8/20/28 supports 2x2 only)				-
LTE	1	2100	FDD	Yes		Yes		Yes				
	3	1800	FDD	Yes		Yes		Yes				
	5	850	FDD	Yes		Yes		Yes				
	7	2600	FDD	Yes		Yes		Yes				
	8	900	FDD	Yes		Yes		Yes				
	20	800	FDD	Yes		Yes		Yes				
	28	700	FDD	Yes		Yes		Yes				
	38	2600	TDD	Yes		Yes		Yes				
	40	2300	TDD	Yes		Yes		Yes				
	41	2500	TDD	Yes		Yes		Yes				
	42	3500	TDD	Yes		Yes		-				
	DL CA			Yes				Yes				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			Yes				Yes				-
	DL 4x4 MIMO			B1/3/7/38/40/41/42				B1/3/7/38/40/41/42				-
	DL 256-QAM			Yes				Yes				-
	UL 64-QAM			Yes (supports 256QAM)				Yes (supports 256QAM)				-
	MIMO (UL/DL)			1x4				1x4				1x2
3G	1	2100	FDD	Yes		Yes		Yes				
	3	1800	FDD	Yes		Yes		Yes				
	5	2100	FDD	Yes		Yes		Yes				
	8	900	FDD	Yes		Yes		Yes				
WiFi AP	802.11n 2x2			Yes**				Yes				Yes
	802.11ac 2x2			-				Yes				Yes
	802.11ax 2x2			-				Yes				-
	Number of users			-				Up to 64				Up to 32
Ethernet	GbE LAN			x1 (PoE)				x2				x4
	GbE WAN			-				x1 (reuse LAN 1)				x1 (reuse LAN 1)
SIM slot	Micro/Nano SIM slot			Micro SIM				Micro SIM				Micro SIM
Power	DC input			PoE 48 V				DC 12 V				DC 12 V
Ingress protection				IP68				-				-

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

** WiFi AP is used for management purpose only.

License information

Per-device License Model

Nebula’s per-device licensing allows IT teams to maintain various 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 multiple subscription options to meet customers’ needs. Whether you are looking for a complimentary option giving you some peace of mind at no extra cost, more control over your network updates and visibility, 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.

Nebula MSP Pack further provides cross-organization management functionality, helping MSP streamlines multi-tenant, multi-site, multi-level network deployment and management, and deliver superior service to their customers



MSP Pack

- Per-admin account license that include cross-org. management features and can be used in conjunction with existing Packs (Base/Plus/Pro)
- MSP portal
 - Create organization
 - MSP branding
- Admins & teams
 - Cross-org synchronization
 - MSP alerts



Base Pack

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



Plus Pack

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



Pro Pack

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

Flexible Security License Subscription

With the addition of USG FLEX and ATP 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 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.



Secure WiFi

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



Content Filter Pack

Three-in-one security service license add-on(s) to USG20(W)-VPN, which includes Web Filtering, SecuReporter Premium, and Security Profile Sync.



Connect & Protect (CNP)

Cloud-mode access point license to provide IP Reputation Filter & App Visibility with throttling to ensure a secure and smooth wireless network

Nebula Trial License

To provide users the experience of using the full range of advanced features and services in both Nebula Pro Pack and NSS Security Pack, Nebula provides 30-day trial license to users when they create a new organization in NCC*. Registered device-bundled license 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 UTM Security Pack. If a customer adds an USG FLEX bundled SKU (0102F) with an UTM bundled license to an organization, NCC will automatically grant & activate a Pro Pack license aligning to that device's UTM license terms as part of the bundled license service.

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	●	●	●
●		✓	✓	✓	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)		●	●
●	✓	✓	✓	✓	Email Users and Alert Notifications		●	●
●				✓	WiFi Vouchers (Auto-Gen Vouchers for Access/Authentication with user defined time limits)		●	●
●	✓	✓	✓	✓	Organizational User Audit/Change Logs			●
●		✓	✓	✓	Organizational-wide Configuration Sync, Clone and Template			●

M	R	F	S	W	Feature Name	Base Pack	Plus Pack	Pro Pack
•	✓	✓	✓	✓	Configuration Backup/Restore			•
•	✓	✓	✓	✓	Priority Nebula Support Request (Direct NCC incl. Web Chat)			•
•		✓	✓	✓	Open API for Ecosystem Partner Application Integration			•
•		✓		✓	Client Diagnostics — Connection Journey Based Event Log			•
					Advanced WiFi AAA Security (Dynamic Personal PSK, ✓ Facebook WiFi, Dynamic VLAN Assignment via NCAS, 3rd Party AAA Integration)			•
					Advanced WiFi Control & Management ✓ (RSSI Threshold Setting per AP, Export NAT AP Traffic Log, Programmable SSID & PSK)			•
					WiFi Health Monitoring and Report ✓ (AI/Machine Learning 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/ML Alert)			•
			✓		Switch Surveillance Feature Set (Monitoring, Extended Range, Auto PD Recovery)			•
•		✓			Zyxel CNM SecuReporter			•
		✓			Firewall 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
F = Firewall Feature

S = Switch Feature
W = Wireless Feature

Service related information

Nebula Forum

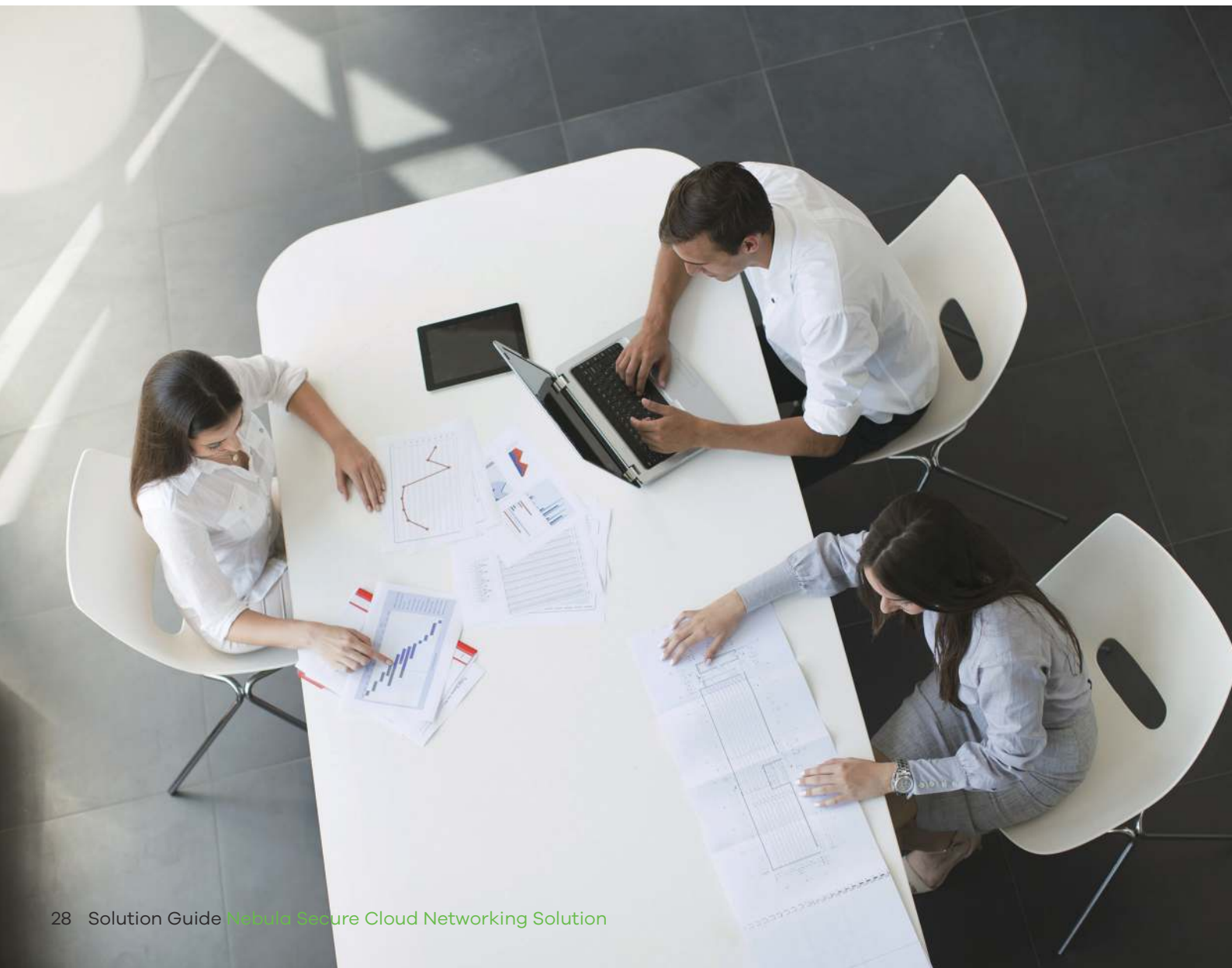
The Nebula forum is a great place where users can come together to share tips and ideas, get problems solved and learn from fellow users around the world. Join the conversations to know more about everything the Nebula products can do. Visit Nebula forum to explore more.

URL: <https://forum.nebula.zyxel.com/>

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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