



Unlock Networking Possibilities with Cloud

Nebula Cloud Networking
Solution Guide



January 2023



Overview

The Nebula cloud networking and management solution provides centralised 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.
- Centralised, 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 product portfolio from a single vendor ensures better product compatibility
- Per-device licensing model with flexible subscriptions provides rich diversity and high flexibility for customers of all sizes

Introduction to Nebula Cloud managed networks

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

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



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

Nebula cloud managed networking architecture

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.

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

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 and dark mode
- Multi-tenant and multi sight view and management
- First time setup wizard
- Role-based administration privileges
- Real-time and historical monitoring/reporting
- Granular device based information and trouble shooting tools
- Rich site-wide management tools
- Site-based auto and smart configuration tools
- Powerful organisation-wide management tools
- Configuration changing alerts
- Misconfigure protection against disconnecting NCC
- Login and Configure auditing
- Flexible firmware management
- Multi-lingual management interface

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

Features

First Time Setup Wizard

Nebula 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

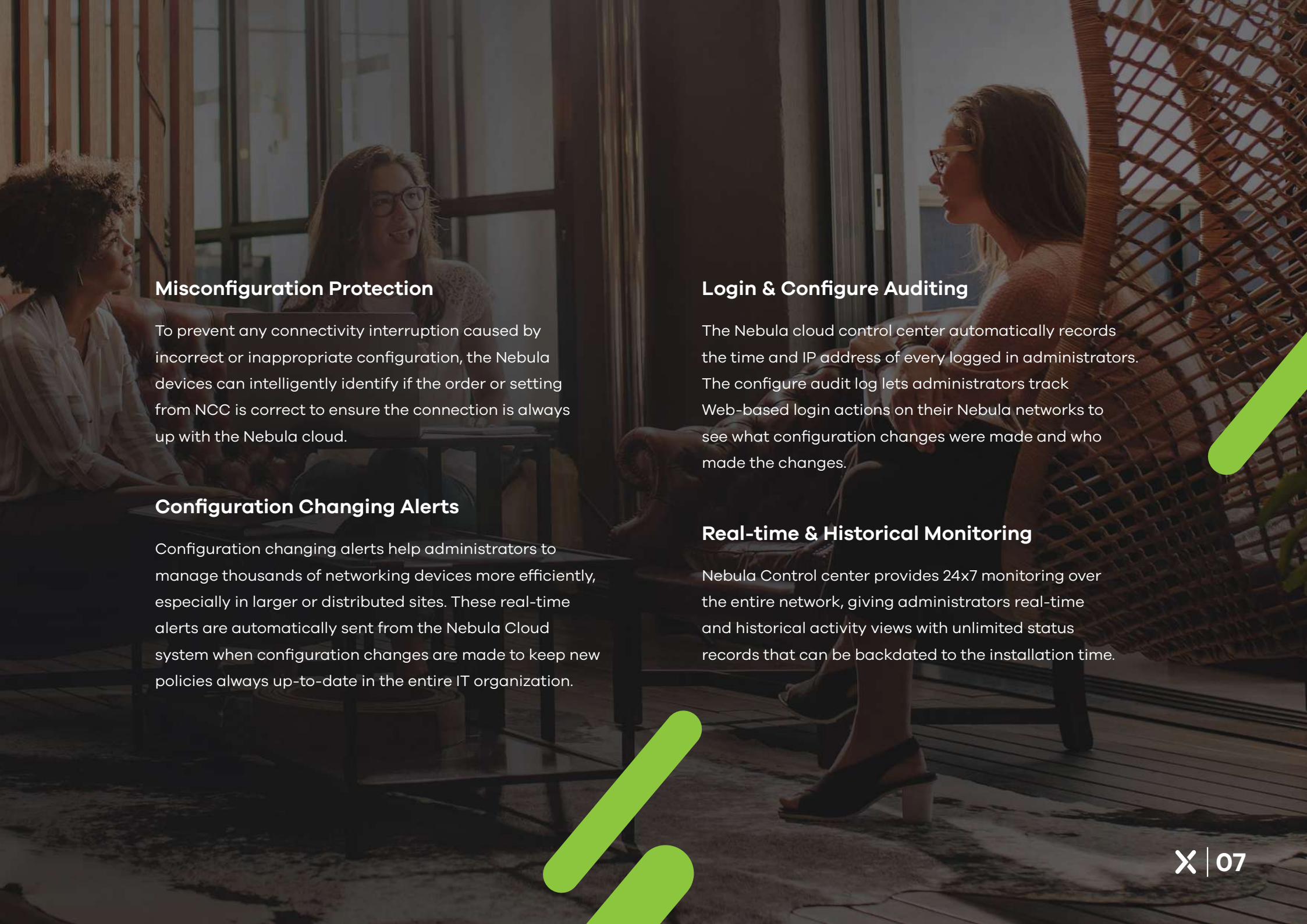
Supervisors are allowed to appoint different privileges for multiple administrators to manage network and guest access. Specify management authority in the network access control function to maximize security and to avoid accidental misconfiguration.

Organization-wide management tools

Powerful organization-wide features such as organizational overview, configuration backup and restore, configuration template and configuration clone are supported to 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

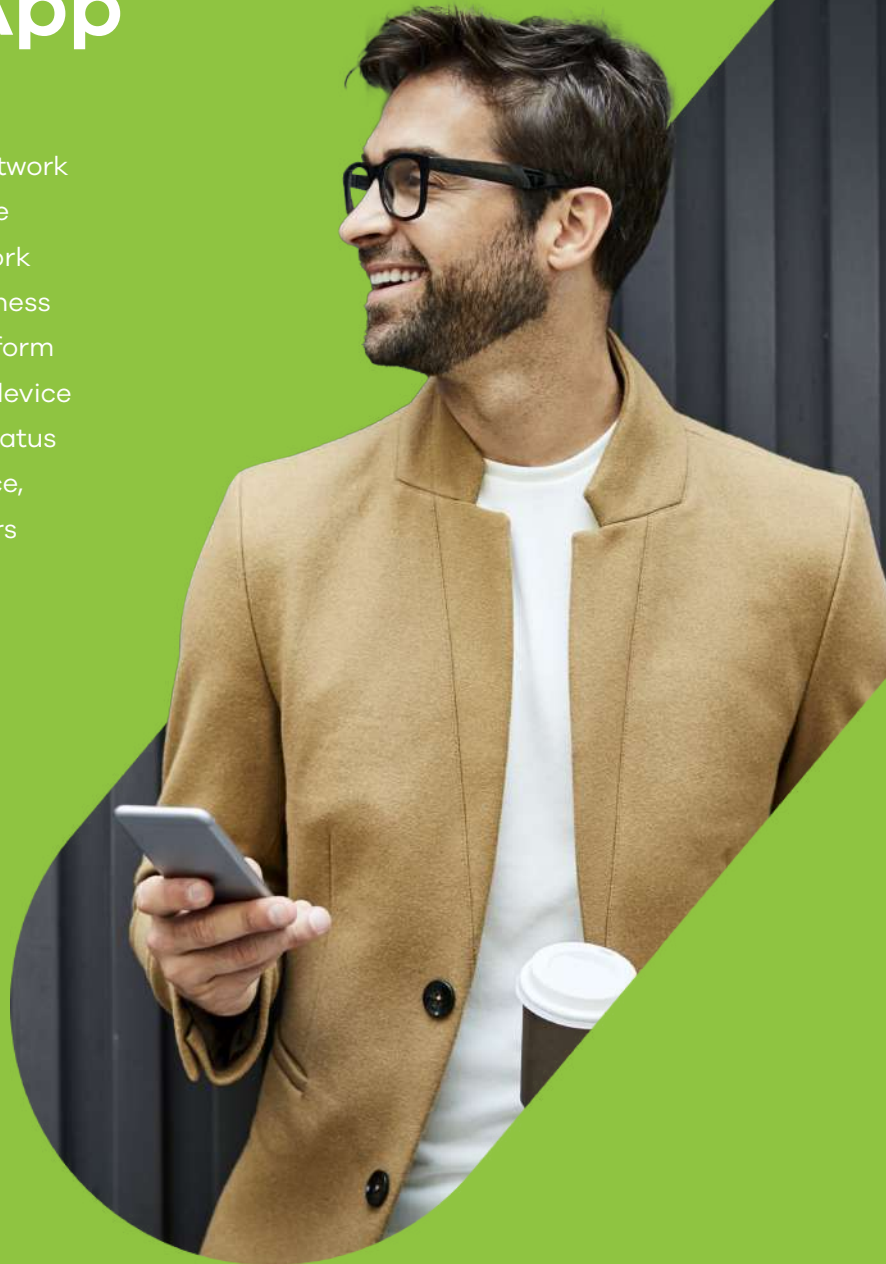
The Nebula cloud control center automatically records the time and IP address of every logged in administrators. The configure audit log lets administrators track Web-based login actions on their Nebula networks to see what configuration changes were made and who made the changes.

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.

Nebula Mobile App

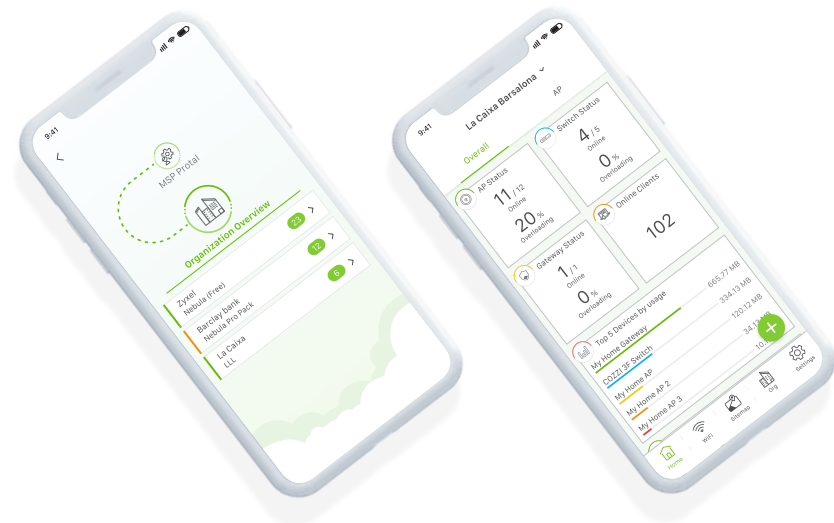
The Nebula mobile app offers a fast approach to network management, providing an easy method for device registration and an instant view of real-time network status, which is particularly suitable for small business owners with little to no IT skills. With it, you can perform WiFi network configuration, 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.



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
- Create 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 8 days alert history

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



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.

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

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

Access Points with NebulaFlex Product Options

	Model: NWA50AX	Model: NWA90AX	Model: NWA55AXE	Model: NWA110AX
				
Product name	AX1800 WiFi6 Dual-Band Radio PoE Access Point	AX1800 WiFi6 Dual-Band Radio PoE Access Point	AX1800 WiFi6 Dual-Band Radio PoE Access Point	AX1800 WiFi6 Dual-Band Radio PoE Access Point
Typical deployment	Small Business or WFH, Entry level deployments	Small Business, Enhanced Feature set (Captive Portal)	Outdoor, Entry-level deployments	Small Business, Enhanced Security and Feature set
Radio specification	1 x 2.4GHz WiFi6 radio 1 x 5GHz WiFi6 radio 1.775 Gbps max rate 2x2 MU-MIMO	1 x 2.4GHz WiFi6 radio 1 x 5GHz WiFi6 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 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
LAN	1 x 1G	1 x 1G	1 x 1G	1 x 1G
Antenna	Embedded antenna	Embedded antenna	External antenna	Embedded antenna



Access Points with NebulaFlex Product Options

	Model: NWA210AX	Model: NWA220AX-6E	Model: WAX510D
			
Product name	AX3000 WiFi6 Dual-Band Radio PoE Access Point	AXE5600 WiFi6E Dual-Band Radio Access Point	AX1800 WiFi6 Dual-Band Radio Unified Access Point
Typical deployment	Medium density, Enhanced Security and Feature set.	Medium level wireless deployments with an easy upgrade path to 6GHz	Medium level wireless deployments
Radio specification	■ 1 x 2.4GHz WiFi6 radio ■ 1 x 5GHz WiFi6 radio ■ 2.975 Gbps max rate ■ 4x4 + 2x2 MU-MIMO	■ 1 x 2.4GHz WiFi6 radio ■ 1 x 5GHz/6GHz WiFi6 radio ■ 5.4 Gbps max rate ■ 4x4 + 2x2 MU-MIMO	■ 1 x 2.4GHz WiFi6 radio ■ 1 x 5GHz WiFi6 radio ■ 1.775 Gbps max rate ■ 2x2 MU-MIMO
LAN	1 x 2.5G + 1G	1 x 2.5G + 1G	1 x 1G
Antenna	Embedded antenna	Embedded antenna	Dual-optimised antenna

	Model: WAX610D	Model: WAX620D-6E	Model: WAX630S	Model: WAX640S-6E	Model: WAX650S
					
Product name	AX3000 WiFi6 Dual-Band Radio Access Point	AXE5400 WiFi6E Dual-Band Radio Access Point	AX3000 WiFi6 Dual-Band Adaptive Smart Antenna Access Point	AXE7800 WiFi6E Tri-Band Adaptive Smart Antenna Access Point	AX3550 WiFi6 Dual-Band Adaptive Smart Antenna Access Point
Typical deployment	Medium to high density deployments	Medium to high density deployments	High density and interference-laden indoor environments	High density and interference-laden indoor environments	High density and interference-laden indoor environments
Radio specification	■ 1 x 2.4GHz WiFi6 radio ■ 1 x 5GHz WiFi6 radio ■ 2.975 Gbps max rate ■ 4x4 + 2x2 MU-MIMO	■ 1 x 2.4GHz WiFi6 radio ■ 1 x 5GHz/6GHz WiFi6 radio ■ 5.4 Gbps max rate ■ 4x4 + 2x2 MU-MIMO	■ 1 x 2.4GHz WiFi6 radio ■ 1 x 5GHz WiFi6 radio ■ 2.975 Gbps max rate ■ 4x4 + 2x2 MU-MIMO	■ 1 x 2.4GHz WiFi6 radio ■ 1 x 5GHz WiFi6 radio ■ 1 x 6GHz WiFi6E radio ■ 7.8 Gbps max rate ■ 4x4 + 2x2 + 2x2 MU-MIMO	■ 1 x 2.4GHz WiFi6 radio ■ 1 x 5GHz WiFi6 radio ■ 1 x monitoring radio ■ 3.55 Gbps max rate ■ 4x4 MU-MIMO
LAN	1 x 2.5G + 1 x 1G	1 x 2.5G + 1 x 1G	1 x 2.5G + 1 x 1G	1 x 2.5G + 1 x 1G	1 x 5G + 1 x 1G
Antenna	Dual-optimised antenna	Dual-optimised antenna	Embedded smart antenna	Smart antenna	Embedded smart antenna

*(Restrict 2.4G & 5G radio to one transmit stream only)



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.

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

* Features may vary per model

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

Model: GS1350-6HP

Model: GS1350-12HP

Model: GS1350-18HP

Model: GS1350-26HP

**Product name**

5-port GbE Smart Managed PoE Switch with GbE Uplink

8-port GbE Smart Managed PoE Switch with GbE Uplink

16-port GbE Smart Managed PoE Switch with GbE Uplink

24-port GbE Smart Managed PoE Switch with GbE Uplink

Switch class

Smart Managed NebulaFlex Pro

Smart Managed NebulaFlex Pro

Smart Managed NebulaFlex Pro

Smart Managed NebulaFlex Pro

Total port count

6

12

18

26

1G (RJ-45)

5

10

16

24

PoE+ ports3 x PoE+ (30W)
2 x PoE++ (60W)

8 x PoE+ (30W)

16 x PoE+ (30W)

24 x PoE+ (30W)

SFP/SFP+ (10G)

1 x SFP

2 x SFP

-

-

Gigabit combo (SFP/RJ-45)

-

-

2

2

Switching capacity (Gbps)

12

24

36

52

Total PoE power budget (watts)

60

130

250

375

Switches with NebulaFlex Product Options

	Model: GS1915-8	Model: GS1915-8EP	Model: GS1915-24E	Model: GS1915-24EP	Model: GS1920-8HPv2
					
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	8-port GbE Smart Managed PoE Switch
Switch class	Smart Managed NebulaFlex	Smart Managed NebulaFlex	Smart Managed NebulaFlex	Smart Managed NebulaFlex	Smart Managed NebulaFlex
Total port count	8	8	24	24	10
1G (RJ-45)	8	8	24	24	8
PoE+ ports	-	8	-	12	8
SFP/SFP+	-	-	-	-	-
Gigabit combo (SFP/RJ-45)	-	-	-	-	2
Switching capacity (Gbps)	16	16	48	48	20
Total PoE power budget (watts)	-	60	-	130	130

Model: GS1920-24v2

Model: GS1920-24HPv2

Model: GS1920-48v2

Model: GS1920-48HPv2



Product name

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
NebulaFlex

Smart Managed
NebulaFlex

Smart Managed
NebulaFlex

Smart Managed
NebulaFlex

Total port count

28

28

50

50

1G (RJ-45)

24

24

44

44

PoE+ ports

-

24

-

48

SFP/SFP+ (10G)

-

-

2 x SFP

2 x SFP

Gigabit combo
(SFP/RJ-45)

4

4

4

4

Switching
capacity (Gbps)

56

56

100

100

Total PoE power
budget (watts)

-

375

-

375

Switches with NebulaFlex Product Options

	Model: XGS1930-28	Model: XGS1930-28HP	Model: XGS1930-52	Model: XGS1930-52HP
				
Product name	24-port GbE Smart Managed Switch with 4 x 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 NebulaFlex	Smart Managed NebulaFlex	Smart Managed NebulaFlex	Smart Managed NebulaFlex
Total port count	28	28	52	52
1G (RJ-45)	24	24	48	48
PoE+ / PoE++ ports	-	24	-	48
SFP/SFP+ (10G)	4 x SFP+	4 x SFP+	4 x SFP+	4 x SFP+
Gigabit combo (SFP/RJ-45)	-	-	-	-
Switching capacity (Gbps)	128	128	176	176
Total PoE power budget (watts)	-	375	-	375

Switches with NebulaFlex Product Options

	Model: XMG1930-30	Model: XMG1930-30HP	Model: XS1930-10	Model: XS1930-12HP	Model: XS1930-12F
					
Product name	24-port 2.5G Smart Managed L2 Switch with 4 10G Multi-Gigabit Ports and 2 SFP+ Uplink	24-port 2.5G Smart Managed L2 PoE Switch with 4 10G Multi-Gigabit Ports and 2 SFP+ Uplink	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 NebulaFlex	Smart Managed NebulaFlex	Smart Managed NebulaFlex	Smart Managed NebulaFlex	Smart Managed NebulaFlex
Total port count	30	30	10	12	12
mGig (RJ-45)	24 x 1G/2.5G 4 x 1G/2.5G/5G/10G	24 x 1G/2.5G 4 x 1G/2.5G/5G/10G	8 x 1G/2.5G/5G/10G	2 x 1G/2.5G/5G/10G	2 x 1G/2.5G/5G/10G
PoE+ / PoE++ ports	-	20 x PoE+ (30W) 4 x PoE++ (60W)	-	8 x PoE+ (60W)	-
SFP/SFP+ (10G)	2 x SFP+	2 x SFP+	2 x SFP+	2 x SFP+	10 x SFP+
Gigabit combo (SFP/RJ-45)	-	-	-	-	-
Switching capacity (Gbps)	240	240	200	240	240
Total PoE power budget (watts)	-	700	-	375	-

Switches with NebulaFlex Product Options

	Model: GS2220-10	Model: GS2220-10HP	Model: GS2220-28	Model: 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 NebulaFlex Pro	Layer 2 NebulaFlex Pro	Layer 2 NebulaFlex Pro	Layer 2 NebulaFlex Pro
Total port count	10	10	28	28
1G (RJ-45)	8	8	24	24
PoE+ ports	-	8	-	24
SFP/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 Product Options

	Model: GS2220-50	Model: GS2220-50HP	Model: XGS2220-30	Model: XGS2220-30HP	Model: XGS2220-30F
					
Product name	48-port GbE L2 Switch with GbE Uplink	48-port GbE L2 PoE Switch with GbE Uplink	24-port GbE L3 Access Switch with 6 10G Uplink	24-port GbE L3 Access PoE+ Switch with with 6 x 10G Uplink (400 W)	24-port SFP L3 Access Switch with with 6 x 10G Uplink
Switch class	Layer 2 NebulaFlex Pro	Layer 2 NebulaFlex Pro	Smart Managed NebulaFlex Pro	Smart Managed NebulaFlex Pro	Smart Managed NebulaFlex Pro
Total port count	50	50	30	30	30
mGig (RJ-45)	44	44	24 x 1G 2 x 1G/2.5G/5G/10G	24 x 1G 2 x 1G/2.5G/5G/10G	2 x 1G/2.5G/5G/10G
PoE+ / PoE++ ports	-	48	-	16 x PoE+ (30W) 10 x PoE++ (60W)	-
SFP/SFP+ (10G)	2 x SFP	2 x SFP	4 x SFP+	4 x SFP+	24 x SFP + 4 x SFP+
Gigabit combo (SFP/RJ-45)	4	4	-	-	-
Switching capacity (Gbps)	100	100	168	168	168
Total PoE power budget (watts)	-	375	-	400	-



Switches with NebulaFlex Product Options

Model: XGS2220-54

Model: XGS2220-54HP

Model: XGS2220-54FP

Model: XS3800-28



Product name	48-port GbE L3 Access Switch with 6 x 10G Uplink	48-port GbE L3 Access PoE+ Switch with 6 x 10G Uplink (600 W)	48-port GbE L3 Access PoE+ Switch with 6 x 10G Uplink (960 W)
Switch class	Smart Managed NebulaFlex Pro	Smart Managed NebulaFlex Pro	Smart Managed NebulaFlex Pro
Total port count	54	54	54
1G (RJ-45)	48 x 1G 2 x 1G/2.5G/5G/10G	48 x 1G 2 x 1G/2.5G/5G/10G	48 x 1G + 2 x 1G/2.5G/5G/10G
PoE+ ports	-	40 x PoE+ (30W) 10 x PoE++ (60W)	40 x PoE+ (30W) 10 x PoE++ (60W)
SFP/SFP+	4 x SFP+	4 x SFP+	4 x SFP+
Gigabit combo (SFP/RJ-45)	-	-	-
Switching capacity (Gbps)	261	261	261
Total PoE power budget (watts)	-	600	960

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

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

Firewall/UTM 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 include 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

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



	SPI Firewall throughput (Mbps)*2	VPN throughput (Mbps)*3	IPS throughput (Mbps)*4	Anti-malware throughput (Mbps)*4	UTM throughput (AV & IDP)*4	Max. TCP concurrent sessions*5	Max. concurrent IPsec VPN tunnels*6	Recommended gateway-to-gateway IPsec VPN tunnels	Concurrent SSL VPN users	VLAN Interface	Sandboxing *7	Web Filtering *7	Application Patrol *7	Anti-Malware *7	IPS *7	Reputation Filter *7
 Model: ATP100	1,000	300	600	380	380	300,000	40	20	30	8	Yes	Yes	Yes	Yes	Yes	Yes
 Model: ATP200	2,000	500	1,200	630	600	600,000	100	50	60	16	Yes	Yes	Yes	Yes	Yes	Yes
 Model: ATP500	2,600	900	1,700	900	890	1,000,000	300	150	150	64	Yes	Yes	Yes	Yes	Yes	Yes
 Model: ATP700	6,000	1,200	2,200	1,600	1,500	1,600,000	1,000	300	150	128	Yes	Yes	Yes	Yes	Yes	Yes
 Model: ATP800	8,000	1,500	2,700	2,000	1,900	2,000,000	1,000	300	500	128	Yes	Yes	Yes	Yes	Yes	Yes

*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).

Geo Enforcer *7	SecuReporter Premium *7	Collaborative Detection & Response *7	Service Insight	Security Profile Synchronise (SPS) *7	ssl (https Inspection	2-Factor Authentication	VPN	Microsoft Azure	Amazon VPC	Maximum number of Tunnel-Mode AP	Maximum number of Managed AP	Recommended max. AP in 1AP Group
Yes	Yes	Yes	Yes	Yes	Yes	Yes	IKEv2, IPSec SSL, L2TP/IPSec	Yes	Yes	12	24	10
Yes	Yes	Yes	Yes	Yes	Yes	Yes	IKEv2, IPSec SSL, L2TP/IPSec	Yes	Yes	20	40	20
Yes	Yes	Yes	Yes	Yes	Yes	Yes	IKEv2, IPSec SSL, L2TP/IPSec	Yes	Yes	36	72	60
Yes	Yes	Yes	Yes	Yes	Yes	Yes	IKEv2, IPSec SSL, L2TP/IPSec	Yes	Yes	132	264	200
Yes	Yes	Yes	Yes	Yes	Yes	Yes	IKEv2, IPSec SSL, L2TP/IPSec	Yes	Yes	260	520	300

*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.





Model: USG FLEX 50

SPI Firewall throughput (Mbps) ^{*2}	VPN throughput (Mbps)	VPN IMIX Throughput (Mbps) ^{*3}	IPS throughput (Mbps) ^{*4}	Anti-Malware throughput (Mbps) ^{*4}	UTM throughput (Anti-Malware & IPS, Mbps) ^{*4}	Max. TCP concurrent sessions ^{*5}	Max. concurrent IPsec VPN tunnels ^{*5}	Recommended gateway-to-gateway IPsec VPN tunnels	Concurrent SSL VPN users	VLAN interface	Anti-Malware ^{*7}	IPS ^{*7}	Application Patrol ^{*7}	Email Security	Web Filtering ^{*7}
350	90	-	N/A	N/A	N/A	20,000	10	5	5/15	8	N/A	N/A	Only Cloud	N/A	N/R



Model: USG FLEX 100

900	270	100	540	360	360	300,000	40	20	30	8	Yes	Yes	Yes	Yes	Yes
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Model: USG FLEX 200

1,800	450	160	1100	570	550	600,000	100	50	60	16	Yes	Yes	Yes	Yes	Yes
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Model: USG FLEX 500

2,300	810	240	1,500	800	800	1,000,000	300	150	150	64	Yes	Yes	Yes	Yes	Yes
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Model: USG FLEX 700

5,400	1,100	550	2,000	1,450	1,350	1,600,000	500	250	150	128	Yes	Yes	Yes	Yes	Yes
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*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: (W) Wireless version available

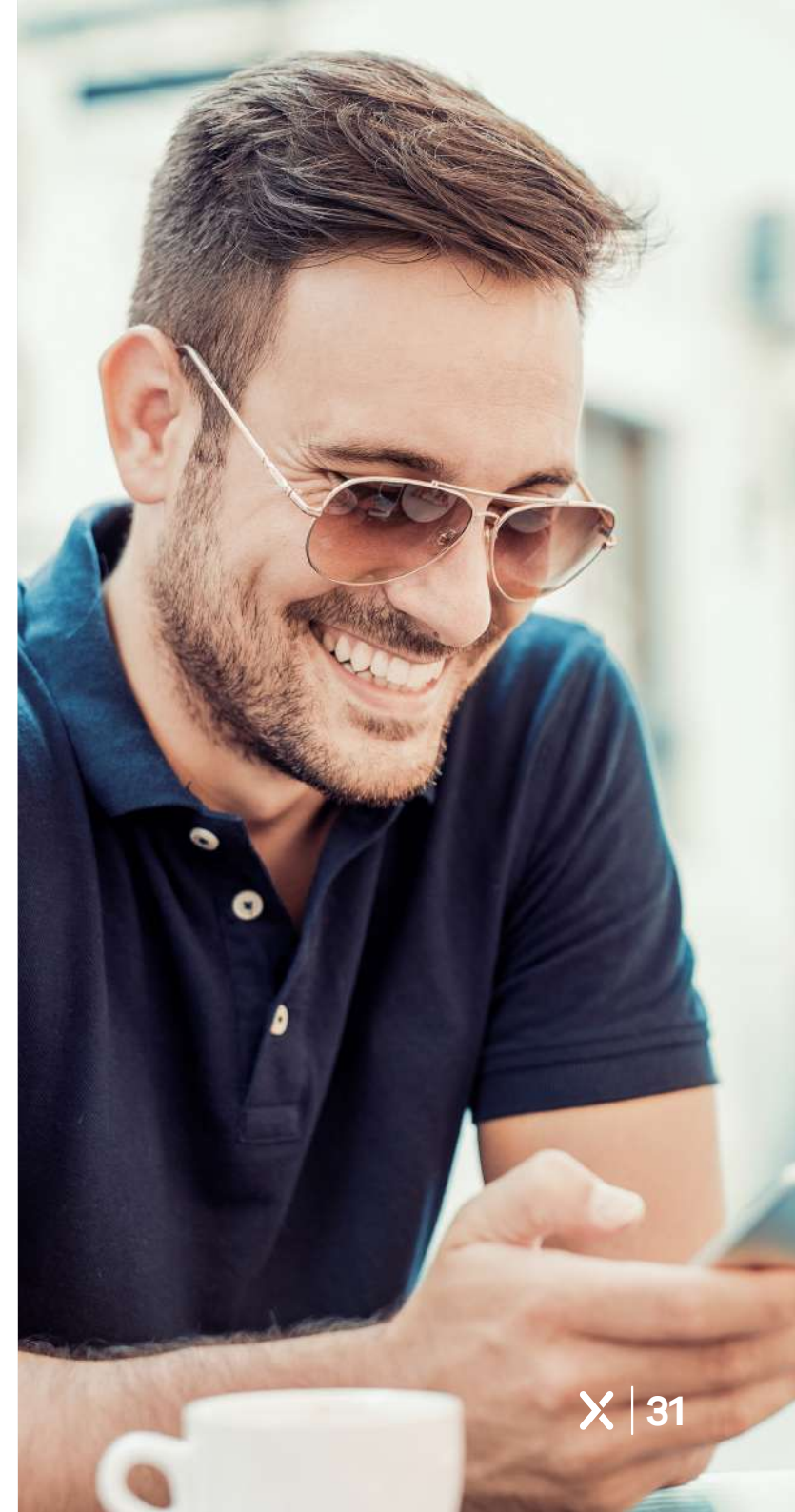
SecuReporter*7	Collaborative Detection & Response*7	SSL (HTTPS) Inspection	2-Factor Authentication	Device Insight	Security Profile Synchronise (SPS)*7	VPN	Microsoft Azure	Amazon VPC	Maximum Number of Tunnel-Mode AP	Maximum Number of Managed AP	Recommend max. AP in 1 AP Group
Yes	Yes	Yes	Yes	Yes	Yes	IKEv2, IPSec SSL, L2TP/IPSec	Yes	Yes	10	24	10
Yes	Yes	Yes	Yes	Yes	Yes	IKEv2, IPSec SSL, L2TP/IPSec	Yes	Yes	10	40	20
Yes	Yes	Yes	Yes	Yes	Yes	IKEv2, IPSec SSL, L2TP/IPSec	Yes	Yes	18	72	60
Yes	Yes	Yes	Yes	Yes	Yes	IKEv2, IPSec SSL, L2TP/IPSec	Yes	Yes	66	264	200

*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.



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
- Fallover function

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

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



Product Name	
Download Data Rates	
LTE	DL CA
	UL CA
	DL 4x4 MIMO
	DL 256-QAM
	UL 64-QAM
	MIMO (UL/DL)
3G	1 2100 FDD
	3 1800 FDD
	5 2100 FDD
	8 900 FDD
WiFi AP	802.11n 2x2
	802.11ac 2x2
	802.11ax 2x2
	Number of users
Ethernet	GbE LAN
	GbE WAN
SIM slot	Micro/Nano SIM slot
Power	DC input
Ingress protection	

Model: Nebula NR7101



Nebula 5G NR Outdoor Router	
5 Gbps*	
Yes	
Yes	
B1/3/7/38/40/41/42	
Yes	
Yes (supports 256QAM)	
1x4	
Yes	
Yes	
Yes	
Yes	
Yes**	
-	
-	
-	
x1 (PoE)	
-	
Micro SIM	
PoE 48 V	
IP68	

Model: Nebula NR5101



Nebula 5G NR Indoor Router	
5 Gbps*	
Yes	
Yes	
B1/3/7/38/40/41/42	
Yes	
Yes (supports 256QAM)	
1x4	
wwwYes	
Yes	
Yes	
Yes	
Yes	
Yes	
Yes	
Up to 64	
x2	
x1 (reuse LAN 1)	
Micro SIM	
DC 12 V	
-	

Model: Nebula LTE3301-PLUS



Nebula 4G LTE-A Indoor Router	
300 Mbps*	
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	
-	
-	
-	
-	
1x2	
Yes	
Yes	
Yes	
Yes	
Yes	
Yes	
-	
Up to 32	
x4	
x1 (reuse LAN 1)	
Micro SIM	
DC 12 V	
-	

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

Product Name			
Download Data Rates			
LTE	DL CA		
	UL CA		
	DL 4x4 MIMO		
	DL 256-QAM		
	UL 64-QAM		
	MIMO (UL/DL)		
3G	1	2100	FDD
	3	1800	FDD
	5	2100	FDD
	8	900	FDD
WiFi AP	802.11n 2x2		
	802.11ac 2x2		
	802.11ax 2x2		
	WiFi AP Speed		
	Number of users		
Ethernet	GbE LAN		
	GbE WAN		
SIM slot	Micro/Nano SIM slot		
Power	DC input		
Ingress protection			

Model: FWA510



Nebula 5G NR Outdoor Router

5 Gbps*

Yes

Yes

B1/3/7/38/40/41/42

Yes

Yes (supports 256QAM)

1x4

Yes

Yes

Yes

Yes

Yes

Yes

Yes

AX3800 WiFi6

Up to 64

2 (LAN 2 can be configured for WAN)

x1 (reuse LAN 1)

Micro SIM

48 W

-

Model: FWA710



Nebula 5G NR Indoor Router

5 Gbps*

Yes

Yes

B1/3/7/38/40/41/42

Yes

Yes (supports 256QAM)

1x4

Yes

Yes

Yes

Yes

Yes**

No

No

-

-

1 x 2.5 Gbps

-

Micro SIM

PoE < 15W (est.)

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).



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.



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 IP Reputation Filter & App Visibility with throttling to ensure a secure and smooth wireless network.



Secure WiFi

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



Content Filter Pack

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



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 Requestv(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/>

Nebula Forum

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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