

ZYXEL
NETWORKS



Connecting Every Guest Anytime, Anywhere

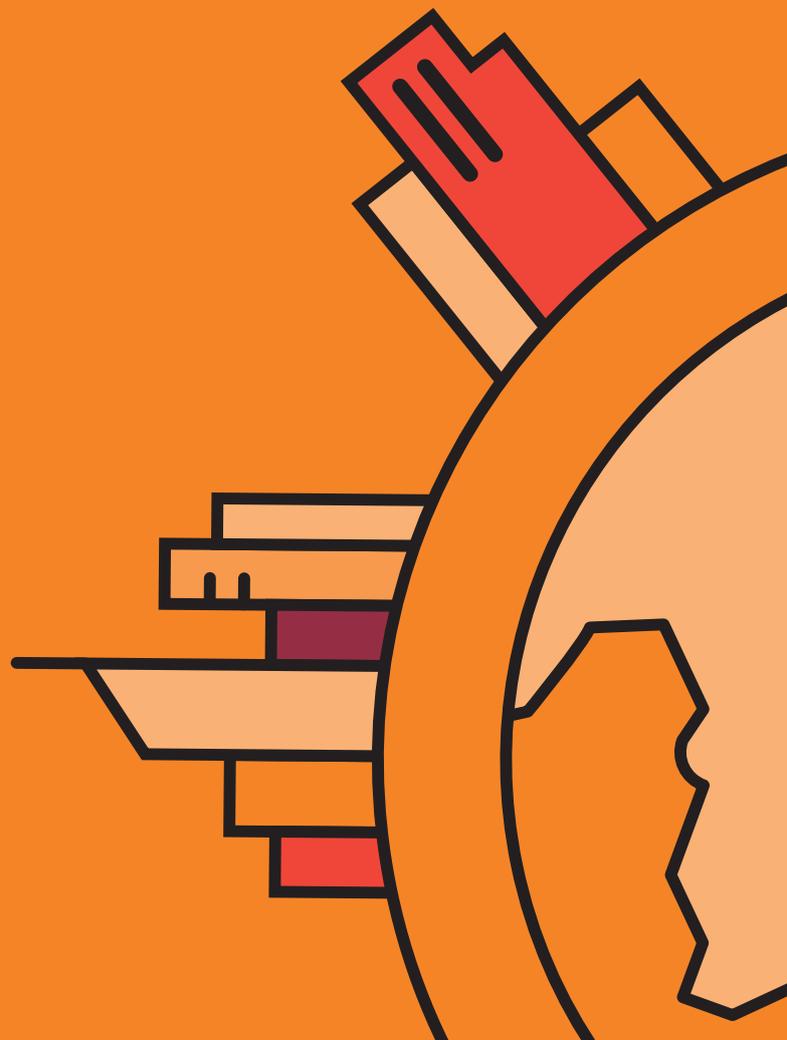
Hospitality
Solution Guide



Zyxel**one** network
Redefining network integration

We empower you to offer better customer experience

Providing a cozy environment with all the amenities of home is essential for a hotel. It improves customer satisfaction and loyalty, and encourages positive experience sharing on accommodation review websites. WiFi has already been established as one of the most basic services guests look for when choosing a hotel, and demand for digital TV along with video and media on demand is swelling rapidly. These all require robust network infrastructure. With a proven track record in switching, WLAN, and security products, and with global services fortified by support from experienced partners with a local touch, Zyxel has hospitality solutions that help you bring in customers—and retain them.



Deployed hospitality solutions in

6,610+ hotels
240,000 rooms

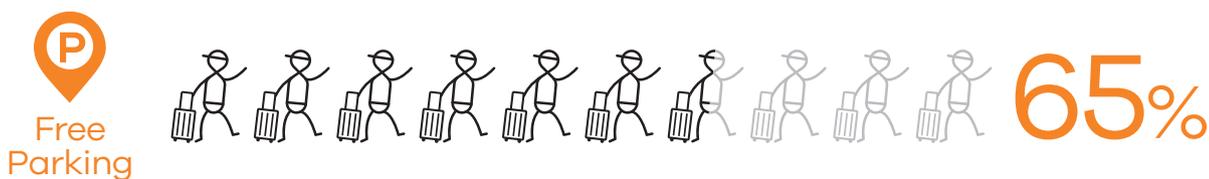
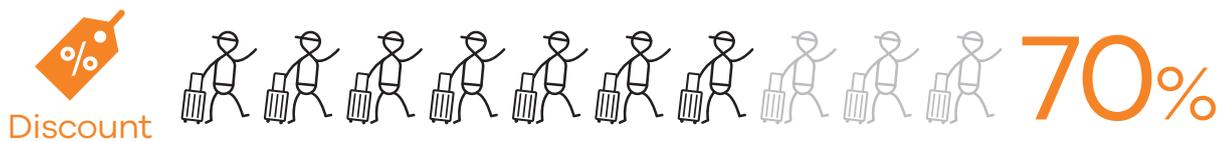
Zyxel worldwide achievement for hospitality in 2014-2021



WiFi equals to customer satisfaction

Seamless Internet service now almost equals customer satisfaction for hotel service. Also, high performance WiFi connectivity provides a great opportunity for new revenue streams through additional services such as

surveillance, telephony, and movies-on-demand, media streaming, and promotional offers, as well as future technologies like smart refrigerators or door locks.



Travelers' top 3 most desired amenities. (Source from Merrill Research verified by an Expedia survey)

Zyxel's Hospitality Solutions

- Seamless wireless connection with a comprehensive product portfolio.
- Customized solutions for various hospitality environments.
- Punctual deployments to meet tight schedules professionally.
- Networking expertise solves complex issues caused by new applications.

Choose a Right WiFi Solution for Your Business

Zykel's product could perfectly blend into all kinds of environments. For example, Zykel provides ceiling mount, wall mount, wall plate, and small detector access points for various functions throughout hospitality areas. Hotel

customers easily enjoy surfing on the Internet no matter in and out rooms through their mobile devices with seamless wireless experience.

The image displays four scenarios for Zykel WiFi solutions:

- In-room:** A wall-plate AP is mounted on the wall above a bed. A smartphone is shown with signal waves emanating from it.
- Lobby/Dinning Room:** A smart antenna/dual-mount AP is mounted on the ceiling. A smartphone is shown with signal waves emanating from it.
- Hall:** A ceiling-mount AP is mounted on the ceiling. A smartphone is shown with signal waves emanating from it.
- Swimming Pool:** An outdoor AP is mounted on a post. A smartphone is shown with signal waves emanating from it.

Giving guests a smooth TV experience

The digital transformation of traditional cable television into IPTV has greatly enriched the hotel hospitality entertainment ecosystem. It has allowed hotels to throw out the messy cabling framework of old and replace it with unified network infrastructure that delivers high-quality TV, video on demand, and WiFi—all through a centralized network management system.

Digital TV requires a pair of IPTV and an IP set-top-box (STB). One IP STB is needed to connect each TV with its head-end streaming server. As technology has advanced and devices have been integrated, the TV has become smarter and now also come with built-in IP STB functionality. This transformation cuts cost and allows more elegant setup with fewer cables.

The Challenges of Transitioning to Smart TV

The new integrated Smart TV vendors have limited knowledge and experience in networking and IP streaming protocols like IGMP. Lack expertise in the standard implementation of IP multicast technology

results in constant headaches for multicast streaming system users, with interruptions such as long pauses when turning on the TV and random screen freezes and pixilation while watching it.

A Tailor-made Solution for Your Smart TV Transition

Zyxel has worked with various hospitality venues and smart TV brands to ease the transition from an IP STB setup to a smart TV as well as to improve the end-user's

IPTV experience. Our switches come with advanced multicast features that completely ameliorate the impact of immature smart TV design.

Delivering guests a contactless, and efficient ordering process

Mobile POS Connectivity Solution

Mobile point-of-sale (mobile POS) systems has revolutionized how today's hospitality industry operates its businesses. It improves operation efficiency, provides data analytics for effective marketing, and ultimately transforms the overall guest experience. For businesses, it is extremely important to maintain the system uptime at all times since the downtime means unhappy customers and revenue loss.

Zyxel provides 24/7 fast and reliable connectivity for mobile POS applications with supreme WiFi expertise, cloud-based network visibility and management, and advanced security measures to protect business data.

Solutions	Benefits
Effective and proactive network management	Zyxel Nebula enables network visibility and provides powerful tools to help optimize the wireless network before problem arises.
WiFi expertise	With over 30 years of industry experience and millions of WLAN products shipped worldwide, Zyxel specializes in WiFi connectivity that can help optimize POS networks.
Data security protection	Zyxel offers a comprehensive range of intelligent security solutions to safeguard valuable business networks and important data.



“ Zyxel’s approach allows our teams to become more efficient by offering additional value to businesses using the Tiller’s solution. With Nebula, we can preventively contact our customers when we receive network alerts. And our teams can support our customers in identifying the outage and resolving the incident, all remotely without having to travel. We are becoming more agile and we can guarantee an optimal experience for our customers which benefits their business. ”

—Pierre Lombard
COO, Tiller

Small to medium venues

For cafeterias, bistros, clinics

In cafeterias, restaurants or clinics, compact, feature rich solutions are welcomed due to the limited space and relatively simple networking infrastructure. The Zyxel all-in-one hotspot gateway provides basic Internet

access through WLAN for mobile devices such as smart phones, tablets and laptops, WiFi hotspot authentication and billing service.

Features & Benefits

Features

- Integrated server with registration and login
- Facebook WiFi (supported by Nebula-managed access point)
- Connect & Protect (CNP) AP security service to protect small business WiFi (supported by Nebula-managed access point).
- Concurrent 2.4 GHz & 5 GHz WiFi connectivity
- Integrate WLAN controller function to manage multiple APs

Benefits for hospitality

- Easy to deploy WLAN hotspot
- Stay ahead of threats with Collaborative Detection & Response (CDR)
- Blocks unsafe contents and brings application visibility with throttling to streamline connectivity (CNP)
- Intelligence social media authentication by Facebook WiFi
- Supports Hospitality features including Hotspot and concurrent device upgrade

Benefits for hotel guest

- Surf on the Internet anytime and anywhere
- Easy to register
- Peace of mind security WiFi experience
- Support VPN for business guests

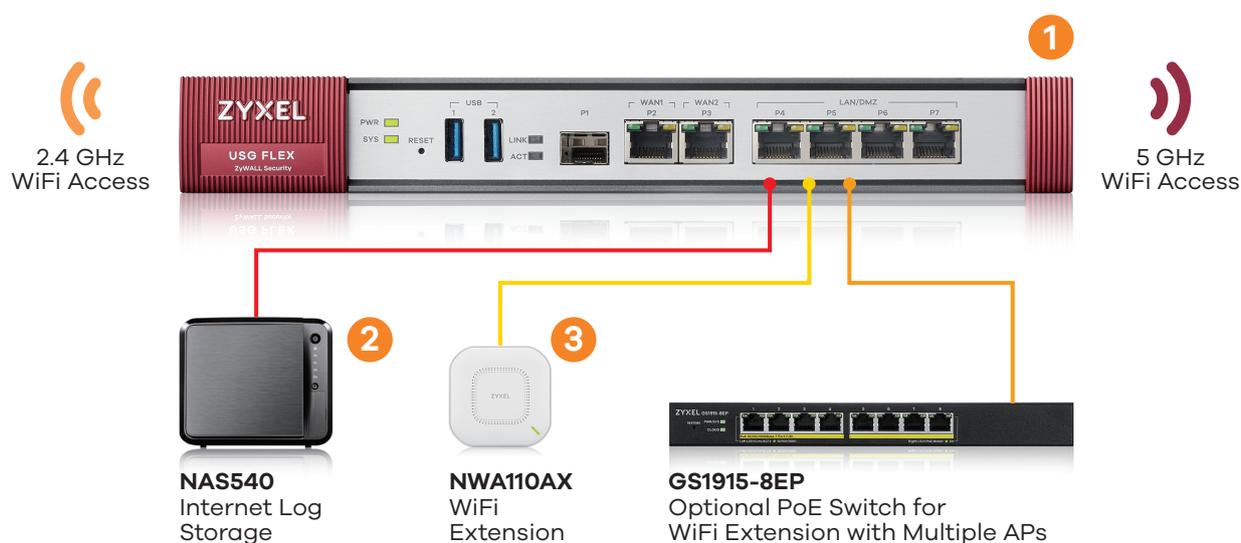


Application Scenario

All-in-one UTM Firewall

USG FLEX 200

- Robust Internet service plus Firewall
- Data retention compliance



Small to medium venues

For hotels with less than 100 rooms

To provide real-time transmission of IP-based video streaming, voice communications and other multimedia applications, such as IPTV, voice badges and digital signage, is challenging yet necessary for hospitality

services. To address these needs, ability to provide infrastructure with decent scalability, performance and stability to deal with high-bandwidth network applications is the first priority for small to medium size hotels.

Features & Benefits

Features

- High-speed WiFi of up to 3 Gbps
- Dual-optimized antenna technology
- Managed AP scalability
- Excellent IPTV application support with rich multimedia features
- QoS upgraded by rich VLAN and multicast functions
- L3 switch features dynamic routing to simplify cross-subnet communications
- Full, deep network protection

Benefits for hospitality

- "Dual-optimized" antenna simplifies WiFi planning because it adapts to both wall- and ceiling-mount installations
- Resiliency and availability for non-stop business continuity
- Enhances Internet safety by using firewall

Benefits for hotel guest

- Surf on the Internet with ease and security
- Anytime and anywhere WiFi connectivity
- Stay ahead of threats with Collaborative Detection & Response (CDR)
- Determine the usage time by requirement
- Support VPN for business guests
- Supports Hospitality features including Hotspot and concurrent device upgrade

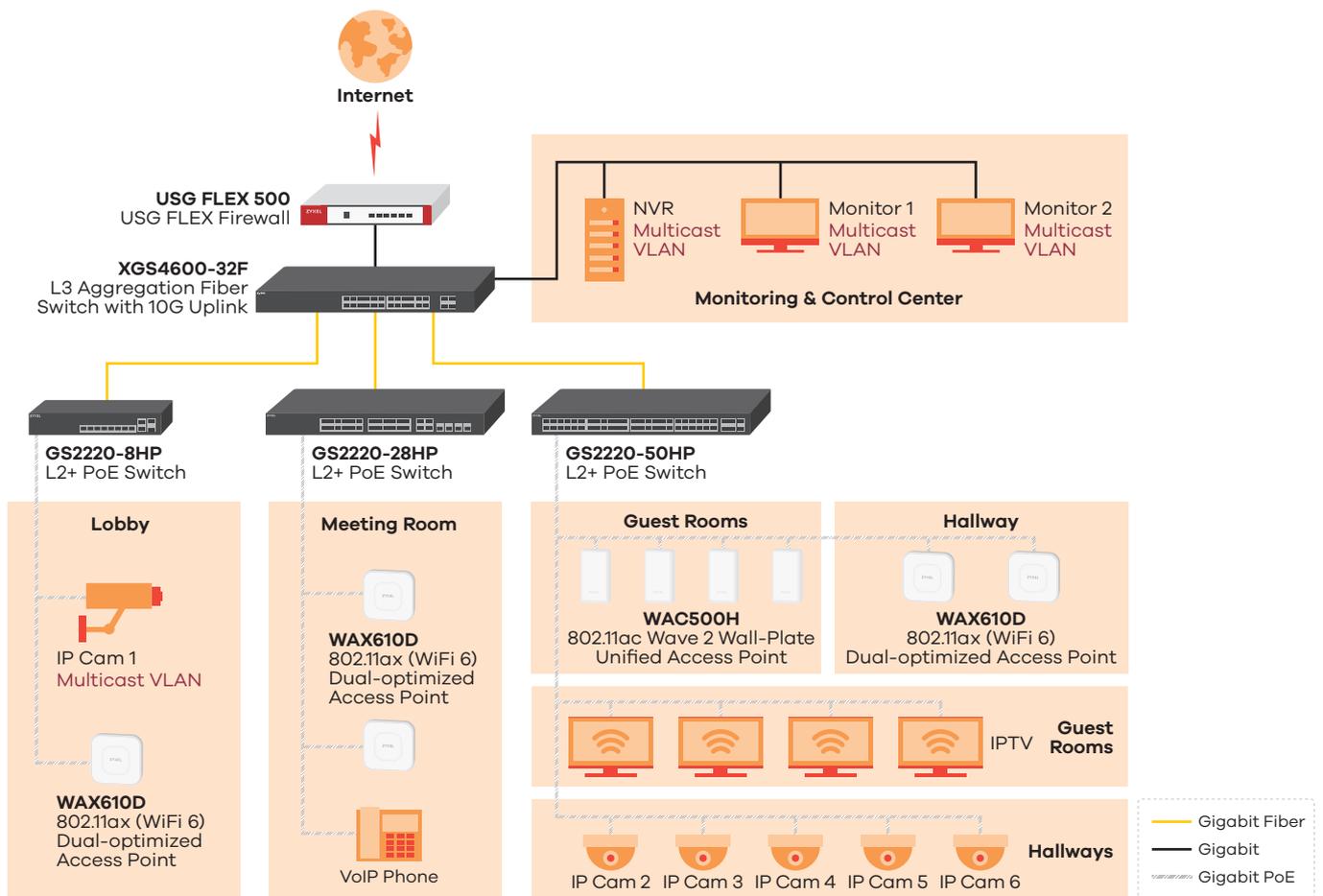


“ We’re constantly improving ourselves to provide our guests with a peaceful and comfortable holiday. That’s why we decided on this project, and we were very satisfied with the support from KBG Bilişim and Zyxel Networks at every stage. In a very short time, all the devices were configured and working well. Our Internet speeds have now reached the desired level throughout the entire hotel, and we’ve got a lot of extremely positive feedback from our guests as a result. We really appreciate KBG Bilişim and the entire Zyxel team. ”

—Ahmet Duyu

IT Manager, Panorama Hotel

Application Scenario



“ Zyxel and their local business partner, Aybiltech, developed a project with the most suitable hardware and software for our hotel and implemented this project with successful planning. We would like to thank Aybiltech for providing this Zyxel-based solution with professional service quality. ”

—Kazım Öztoklu
General Manager, Bayir Diamond Hotel

Medium to large venues

Guests visiting leisure resorts or hotels expect high-quality services and homelike hospitality. Anytime, anywhere wireless network services are now part of the essentials to reward customer satisfaction and loyalty.

In addition customers are using much more complex applications which demand much higher Internet connectivity.

Features & Benefits

Features

- Concurrent 2.4 GHz, 5 GHz, and/or 6 GHz WiFi connectivity
- High-speed WiFi of up to 7.8 Gbps
- Smart antenna technology
- Managed AP scalability
- Excellent IPTV application support with rich multimedia features
- QoS upgraded by rich VLAN and multicast functions
- Layer 3 feature set equipped with static, policy route and VRRP
- Full, deep network protection

Benefits for hospitality

- BandFlex radio supports either 5 GHz or 6 GHz by configuration, making it the budget-friendly choice for 6E upgrade
- Smart antenna delivers best signal in interference-laden environments
- Wall-plate AP integrates PoE and phone connectivity in a box to fit guest room application requirements
- Deal with high-bandwidth network easily by 10-gigabit aggregation
- Firewall can prevent from external and internal threats to ensure safe Internet of hotel

Benefits for hotel guest

- Surf on the Internet with ease and security
- Anytime and anywhere WiFi connectivity
- Stay ahead of threats with Collaborative Detection & Response (CDR)
- Determine the usage time by requirement
- Support VPN for business guests
- Supports Hospitality features including Hotspot and concurrent device upgrade

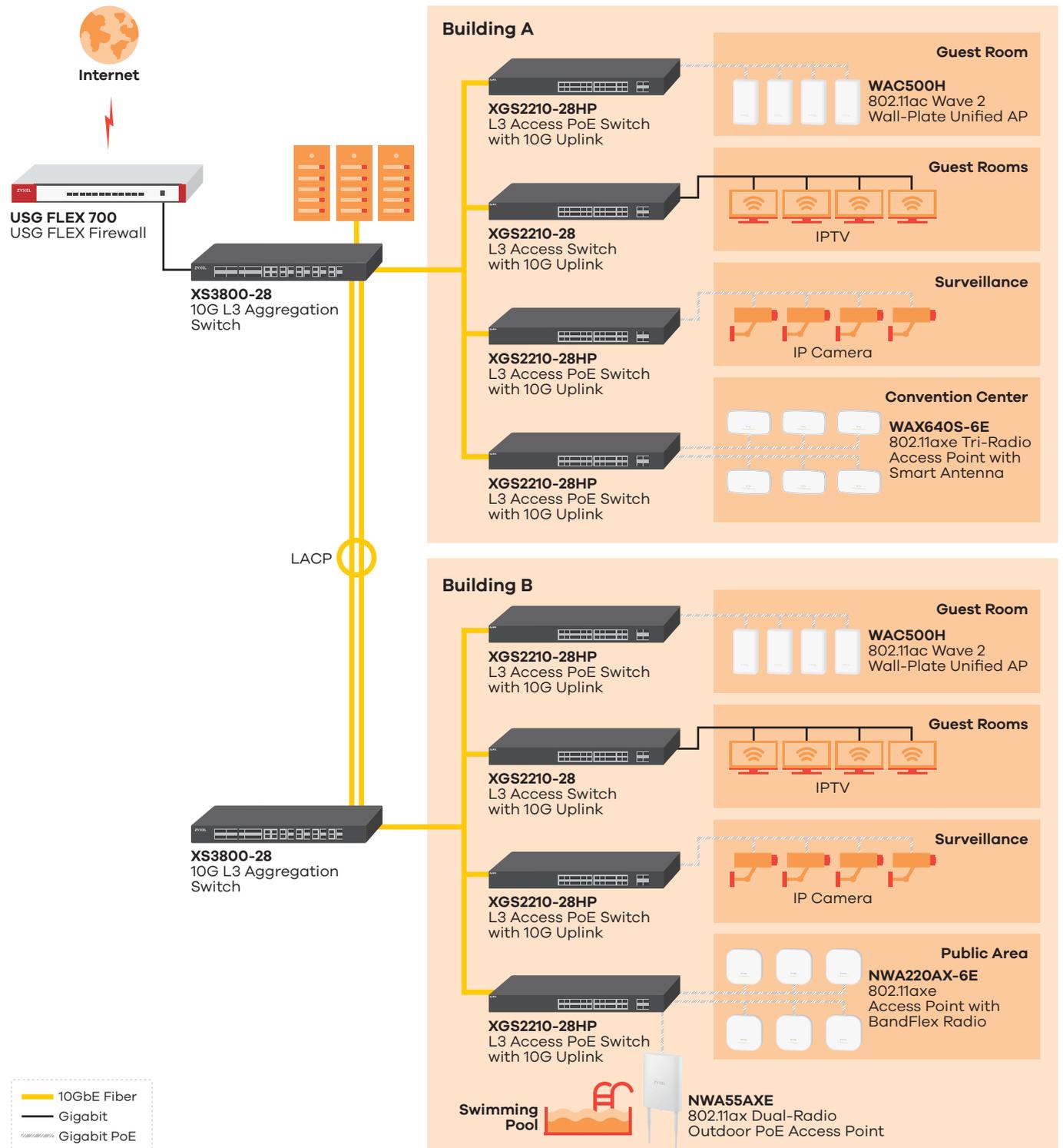


“ We wanted to improve our network infrastructure and to do it by incorporating the latest technology. The results speak for themselves – the new network is fast, reliable, and easy to manage – and we’re very grateful to Emir Security and Zyxel for their great support and solutions. ”

—Kaan Özkan

IT Manager, Adalya Elite Lara

Application Scenario



Nebula cloud networking solutions



Zyxel offers cloud solution, Nebula, is ideal for small- to medium-sized hotels with chain stores in scattered locations. With Zyxel Nebula, the network administrator

can control the entire network with remote accessibility, easy manageability, as well as instant WiFi connectivity.

Features & Benefits

Features

- Simple to manage from the cloud
- Reliable and stable service
- Manage and control the daily needs remotely
- Easily, and fast, monitoring every branches from a single platform

Benefits for hospitality

- Nebula networking hardware is designed for zero-touch deployments that can be installed without sending IT professionals on site
- Free cloud management for the life of the product without the need for ongoing costs
- Intuitive interface provides centralized management over all Nebula devices distributed throughout the hotels, as well as complete visibility over devices and users
- Hotels with small or limited IT team can still run their networks perfectly well

Benefits for hotel guest

- Get connection and access to internet-enabled applications wherever they go without complexity and limit



“ Nebula has allowed us to revolutionize the network of the Tursport Hotel Residence. It's been modernized to fulfill all the new needs of customers, readying the hotel for a prompt return to business. ”

— Antonio Bruno

Technical Manager, TelesSecurity SRL

Hotspot WiFi Onboarding Solution

In today's highly-connected world, providing fast and secure hotspot WiFi to hotel guests is not a luxury, but an absolute necessity. For hospitality location owners – such as hotels, resorts, and event venues – that receive hundreds of thousands of guests every year, it's simply not an easy job to provide a hotspot service without an automated process.

Nebula supports a variety of hotspot WiFi onboarding and authentication methods to facilitate an efficient onboarding process while ensuring connection security.

These include:

Features	Description
Click to continue with captive portal	Provides a simple captive portal to agree with the WiFi terms of use
Nebula Cloud authentication with captive portal	Provides Nebula's built-in authentication with captive portal
Radius server with captive portal	Integrates with third-party AAA service provider for captive portal with RADIUS authentication
Facebook Login	Allows the authentication of users to wireless network by using Facebook accounts to login
Voucher	Allows the authentication of users to the wireless network by signing in with voucher code
DPPSK (Dynamic Personal Pre-Shared Key)	Allows the authentication of users with an individual unique key to the wireless network, as well as allowing the use of DPPSK as 2-Factor Auth. for IoT devices by email
Facebook WiFi (supported by Nebula-managed access point)	Allows the authentication of users to the wireless network by checking-in to the business's Facebook fan page

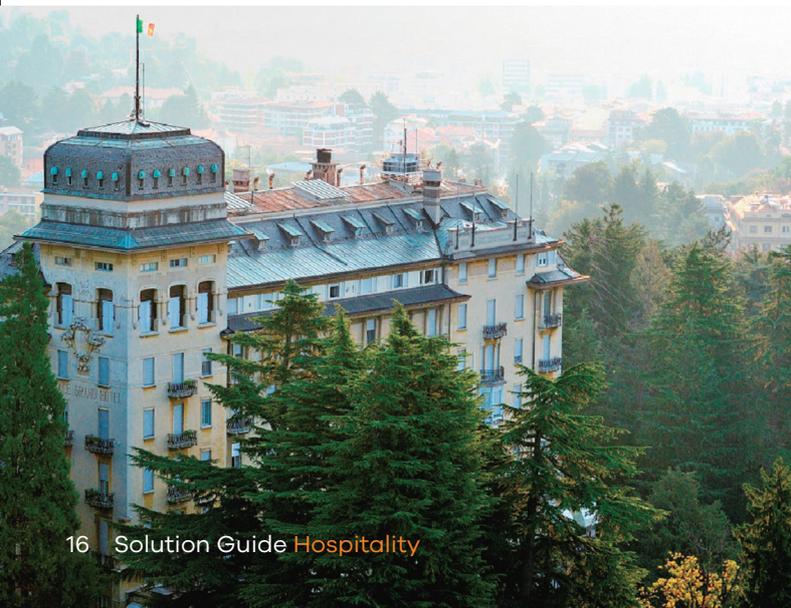
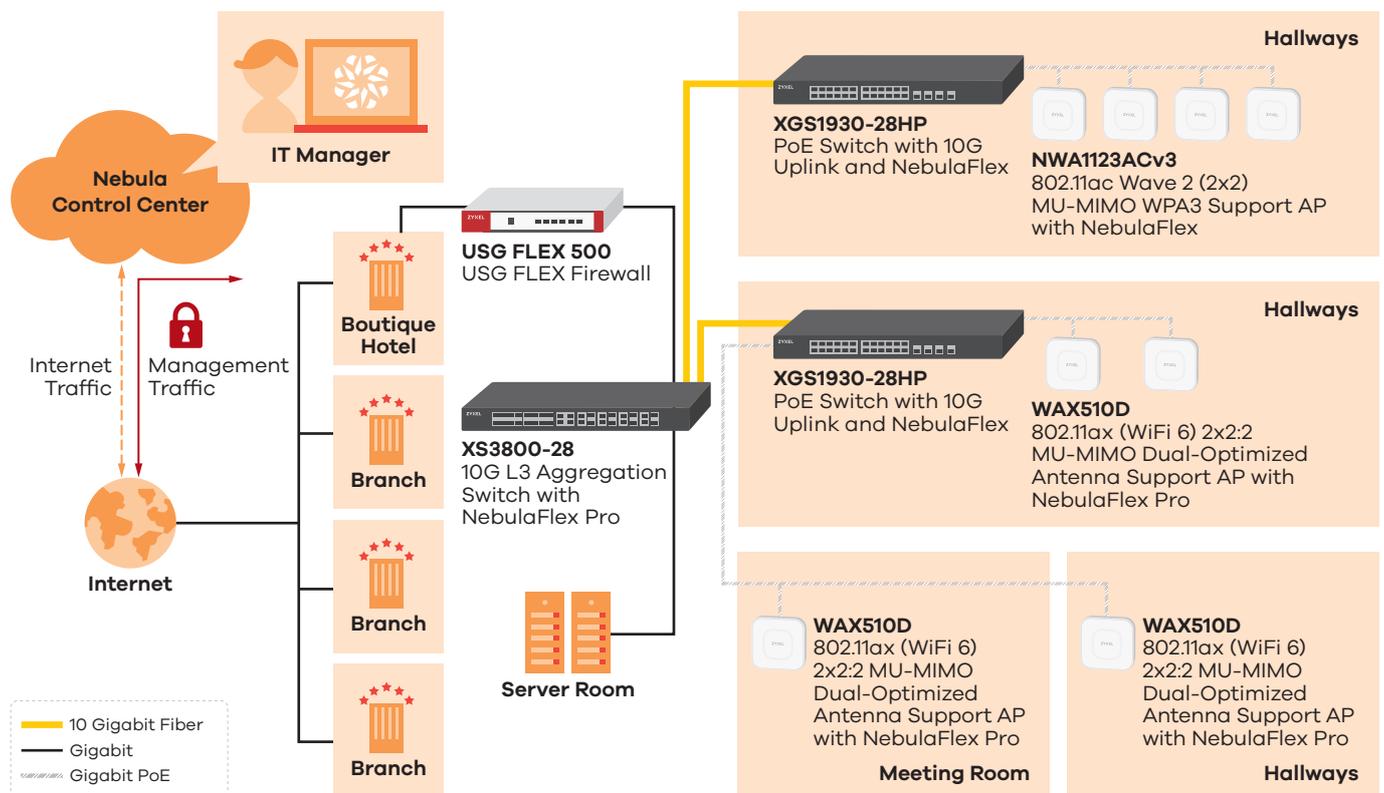


Voucher



DPPSK

Application Scenario



“ We’ve been most impressed by the Nebula cloud networking solution, especially how it allows you to check and manage access points, switches, and firewalls, and to deliver support in real time if necessary. ”

— Salvatore Piraneo
Owner, PSoft sas

Product at a glance

WLAN

WAX640S-6E

AXE7800 Tri-Band WiFi 6E Access Point



- Tri-band coverage, 2.4 GHz, 5 GHz, and 6 GHz (2x2 + 2x2 + 4x4), combined data rates: up to 7.8 Gbps
- Zyxel 6E Boost, using the high-gain 4 streams in 6 GHz, helps extend range and maximize performance of the new band
- The smart antenna technology mitigates interference and boosts WiFi performance
- The advanced RF filter prevents interference between the 5 GHz and 6 GHz bands while guaranteeing performance in all channels
- Supports NebulaFlex Pro to switch among standalone, on-premises controller managed or intuitive Nebula cloud managed mode with 1-Year Pro Pack bundled

NWA220AX-6E

AXE5400 WiFi 6E Dual-Radio Access Point



- 802.11ax AP (4x4 in 6 GHz/5 GHz selectable, 2x2 in 2.4 GHz), combined data rates: up to 5.4 Gbps
- The BandFlex radio design can support either 5 GHz or 6 GHz by configuration, to fit into your 5 GHz coverage as well as futureproofing the use of 6 GHz
- Zyxel 6E Boost, using the high-gain 4 streams in 6 GHz, helps extend range and maximize performance of the new band
- Advanced Cellular Coexistence minimizes interferences from 4G/5G cellular networks
- Supports NebulaFlex to switch between standalone and our license-free Nebula cloud management

WAX610D

AX3000 WiFi 6 Dual-Radio Access Point



- 802.11ax (WiFi 6) 4x4:4 + 2x2:2 MU-MIMO, combined data rates: up to 3 Gbps
- Features with dual-optimized antenna and OFDMA
- Supports NebulaFlex Pro to switch among standalone, on-premises controller managed or intuitive Nebula cloud managed mode with 1-Year Pro Pack bundled
- Advanced Cellular Coexistence minimizes interferences from 4G/5G cellular networks

WAX510D

AX1800 WiFi 6 Dual-Radio Access Point



- 802.11ax (WiFi 6) 2x2:2 MU-MIMO, combined data rates: up to 1.8 Gbps
- Features with dual-optimized antenna and OFDMA
- Supports NebulaFlex Pro to switch among standalone, on-premises controller managed or intuitive Nebula cloud managed mode with 1-Year Pro Pack bundled
- Advanced Cellular Coexistence minimizes interferences from 4G/5G cellular networks

WAC500H

AC1200 Wave 2 Wall-Plate Access Point



- 2x2 802.11ac Wave 2, combined data rates: up to 1.2 Gbps
- Versatile wall-plate AP design in hotel guest rooms
- Supports NebulaFlex Pro to switch among standalone, on-premises controller managed or intuitive Nebula cloud managed mode with 1-Year Pro Pack bundled
- Includes one PoE port to power for VoIP phones or other devices
- Advanced Cellular Coexistence minimizes interference from 4G/5G cellular networks

WAC500

AC1200 Wave 2 Dual-Radio Access Point



- 2x2 802.11ac Wave 2, combined data rates: up to 1.2 Gbps
- Optimized RF performance for ceiling mounting deployment
- Supports NebulaFlex Pro to switch among standalone, on-premises controller managed or intuitive Nebula cloud managed mode with 1-Year Pro Pack bundled
- The latest WPA3 security protocol provides safer connectivity
- Advanced Cellular Coexistence minimizes interferences from 4G/5G cellular networks

NWA55AXE

AX1800 WiFi 6 Dual-Radio Outdoor
PoE Access Point



- Dual-radio (2x2) 802.11ax, combined data rates: up to 1.8 Gbps
- Smart Mesh automatically forms dynamic wireless links to bridge networks for interbuilding settings and mitigates complex, inconvenient cabling WiFi deployments
- External, detachable antenna design allows users to attach other antennas that better suit different demands
- Designed for harsh outdoor environment with up to IP55 weatherproof rating
- Supports NebulaFlex to switch between standalone and our license-free Nebula cloud management

Switch

XGS4600 Series

28/48-port Gigabit L3 Aggregation Switch
with 4 SFP+ Uplink



- Four built-in 10G SFP+ uplinks enable congestion-free, smooth data delivery for high-bandwidth applications
- Physical stacking of up to 4 units
- Features dynamic routing to simplify cross-subnet communications for hospitality venues that operates complex networks
- Redundant power supply module

XS3800-28

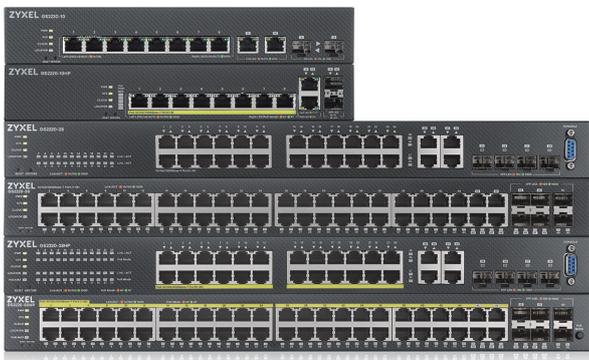
28-port 10 Gigabit L3 Aggregation Switch



- Support Multi-Gigabit connections (100M/1G/2.5G/5G/10G)
- Physical stacking of up to 4 units
- Supports NebulaFlex Pro to switch between standalone management and intuitive Nebula cloud managed mode with 1-YEAR Pro Pack bundled
- Redundant power supply module
- Check real-time status by cloud LED indicator

GS2220 Series

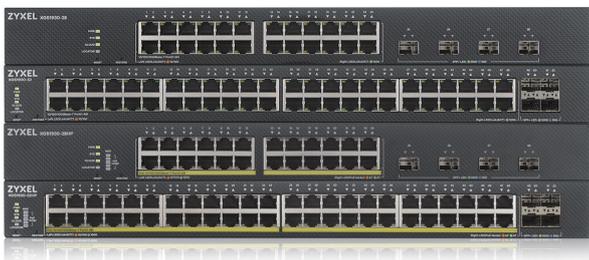
10/28/50-port L2+ Managed Switch



- L2 multicast, IGMP snooping, MVR and voice VLAN for convergence
- Supports NebulaFlex Pro to switch between standalone management and intuitive Nebula cloud managed mode with 1-YEAR Pro Pack bundled
- High power budget of 375 W (28HP/52HP) and 180 W (10HP)
- Smart fan and fanless designs offer near silent operations
- Check real-time status by PoE and cloud LED indicators

XGS1930 Series

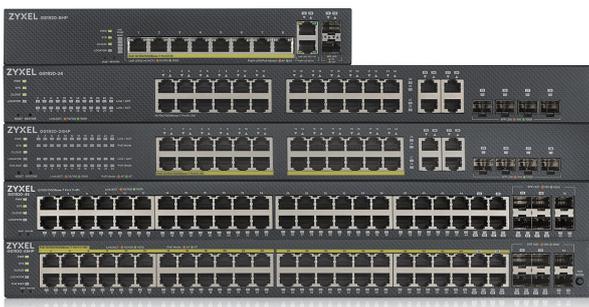
24/48-port Gigabit L2 Smart Managed Switch with 4 SFP+ Uplink



- Four built-in 10G SFP+ uplinks
- User-friendly web-based management interface and setup wizard
- Supports NebulaFlex to switch between standalone and our license-free Nebula cloud management
- High power budget of 375 W
- Smart fan design offers near silent operations
- Check real-time status by PoE and cloud LED indicators

GS1920v2 Series

8/24/48-port GbE L2 Smart Managed Switch



- Unique port combinations ensure agile network expansion
- User-friendly web-based management interface
- Supports NebulaFlex to switch between standalone and our license-free Nebula cloud management
- High power budget of 130 W (8HPv2) and 375 W (24HPv2/48HPv2)
- Smart fan and fanless design offer near silent operations
- Check real-time status by PoE and cloud LED indicators

Security

USG FLEX 100/200/500/700

Next-gen Firewall



- High assurance multi-layered protection includes app patrol, web filtering, anti-malware and IPS
- 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
- 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

Nebula Cloud Networking

NCC

Nebula Control Center



- 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 shooting tools
- Rich site-wide management tools
- Site-based auto and smart configuration tools
- Misconfigure protection against disconnecting NCC
- Configuration changing alerts
- Login & Configure auditing
- Real-time and historical monitoring/reporting
- Granular device based information and troubleshooting tools
- Flexible firmware management

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