



Delivering Seamless Connectivity and Enhanced User Experience with WiFi 7

Overview

A newly opened aesthetic clinic in Taichung, Taiwan, aimed to provide an exceptional customer experience and efficient internal operations from its inception. Recognizing the increasing demand for reliable wireless connectivity, the clinic sought a robust network infrastructure that could support both patient entertainment in waiting areas and critical medical operations. This includes high-speed wireless internet for customers to browse or stream, and stable connectivity for doctors and staff to conduct online consultations and access electronic medical records. Establishing a fast, stable, and well-covered wireless network in their medium-to-small two-story space was identified as key to elevating client satisfaction and operational efficiency.

Customer

Aesthetic Clinic

Industry

Healthcare

Location

Taichung, Taiwan

Challenges

The clinic encountered a range of connectivity challenges while striving to meet its operational needs. Without dedicated IT personnel, it required a network solution that was intuitive and easy to manage. Security and service quality were also key concerns, necessitating clear network segmentation to isolate internal staff traffic from guest access. The clinic's compact layout, spanning 165 square meters (50 pings) across two floors, housed a dense concentration of staff, patients, and connected devices, creating a high risk of signal interference and bandwidth contention. On top of that, the growing demand for high-definition video streaming for teleconsultations and online meetings placed additional pressure on the network's stability and performance.

Solutions

To overcome its connectivity challenges, the clinic adopted Zyxel Networks' NWA210BE BE12300 WiFi 7 dual-band NebulaFlex wireless access points. Purpose-built for small to medium-sized environments, the NWA210BE was an ideal match for the clinic's compact two-floor layout. With cutting-edge WiFi 7 technology, the access point delivers blazing-fast wireless speeds of up to 12.3Gbps, ensuring smooth data transmission for high-definition video consultations and online meetings.

Customer Background

The newly opened aesthetic clinic aimed to deliver a high-quality customer experience and efficient internal operations from day one. To achieve this, the clinic sought to offer high-speed wireless internet in the waiting area and ensure smooth high-definition video transmission and online meetings within consultation rooms. With these goals in mind, the clinic chose to implement a WiFi 7 solution. Spanning around 165 square meters (50 pings) across two floors, the clinic needed a network that could handle a dense environment filled with staff, patients, and multiple connected devices within a compact space.



Solutions

The device's flexible band configuration supports both 2.4GHz + 5GHz and 2.4GHz + 6GHz combinations, providing the perfect balance between speed and coverage. Its BandFlex technology further enhances performance by allowing dynamic switching between 5GHz and 6GHz bands based on real-time conditions, helping to minimize signal interference from numerous in-clinic devices like tablets, mobile phones, and medical equipment. The 2.4GHz band provides stable, wide coverage throughout the waiting area, offering convenient internet access for patients and visitors. Meanwhile, the 6GHz band delivers outstanding performance in consultation rooms, enabling smooth transmission of high-definition video and online meetings.

To ensure consistent WiFi quality in a space where cellular signals could potentially disrupt connectivity, the NWA210BE integrates RF filtering to reduce interference from nearby 4G/5G signals.

Additionally, its compatibility with the Zyxel Nebula cloud platform provides a user-friendly, IT-light solution that is ideal for the clinic's team. Network management is streamlined through a mobile app with QR code setup or a web interface, enabling easy remote monitoring and maintenance without the need for in-house IT staff. Nebula's Captive Portal allows guests to connect without entering a password. Clinics can display custom logos and messages, set time or bandwidth limits, and ensure secure, controlled internet access, delivering both convenience and a more professional image.

Product List



- NWA210BE WiFi 7 Access Point

Results

The high-performance WiFi 7 solution delivered strong, measurable results for the clinic, ensuring fast, stable, and easy-to-use connectivity supporting patient services and internal operations. The network now enables a better user experience, including seamless video consultations, smooth access to medical systems, efficient daily tasks, and reliable WiFi for patients.

- Fast, stable WiFi for smooth HD consultations and online meetings
- Easy cloud-based management without dedicated IT staff
- Higher satisfaction for both patients and staff
- Reliable performance despite dense device usage

