



PTMP, Redefined.

Industry first PTMP with concurrent 5 + 6 GHz links



Massive Capacity



Seamless Redundancy



Interference Resilience



End-to-end connectivity



Zero-Touch OPEX Reduction

ZyXel introduces the **industry's first PTMP solution featuring concurrent 5 GHz and 6 GHz operation**. Engineered to thrive in real-world conditions, our WiFi 7 Multi-Link Operation (MLO) technology delivers fiber-grade stability and predictable performance for the most demanding WISP deployments.

Dual-Band Redundancy & Resilience

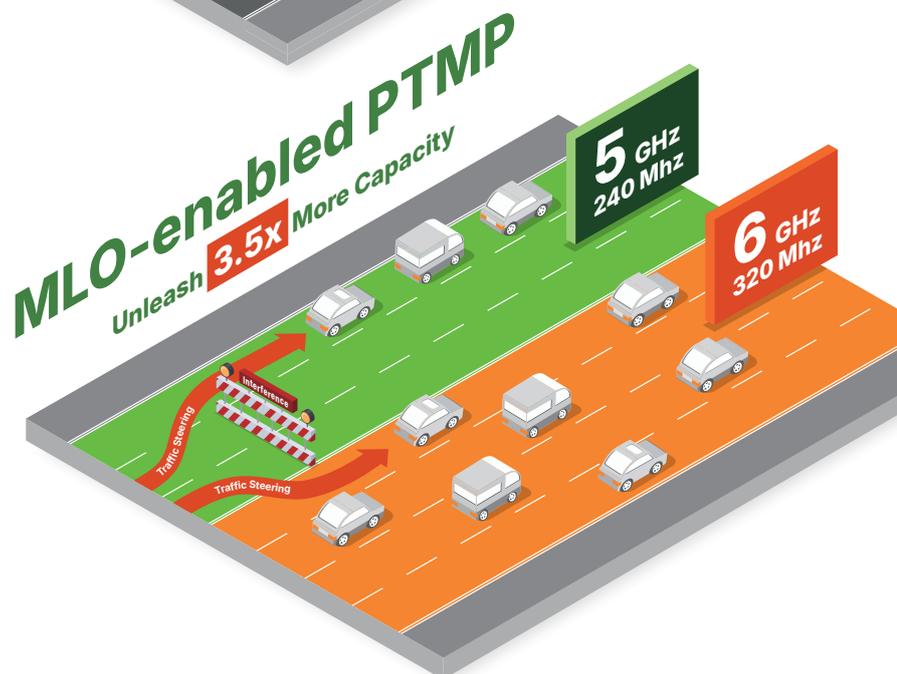
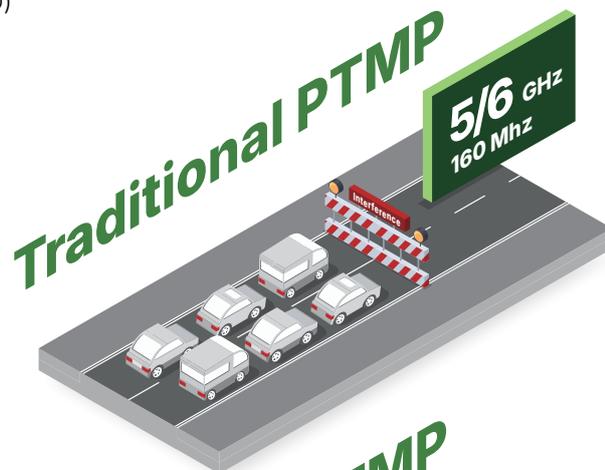
Experience the industry's first PTMP solution utilizing WiFi 7 MLO. By maintaining simultaneous 5 GHz and 6 GHz links, we ensure Seamless Redundancy. If one band hits interference, the other carries the load instantly—eliminating packet loss and service downtime.

Unleash 3.5x More Capacity

Bridge 5 GHz and 6 GHz bands into a massive data pipeline. Our MLO-enabled PTMP delivers 3.5x more capacity than traditional single-band solutions, allowing you to serve more high-bandwidth subscribers per tower and drive ARPU.

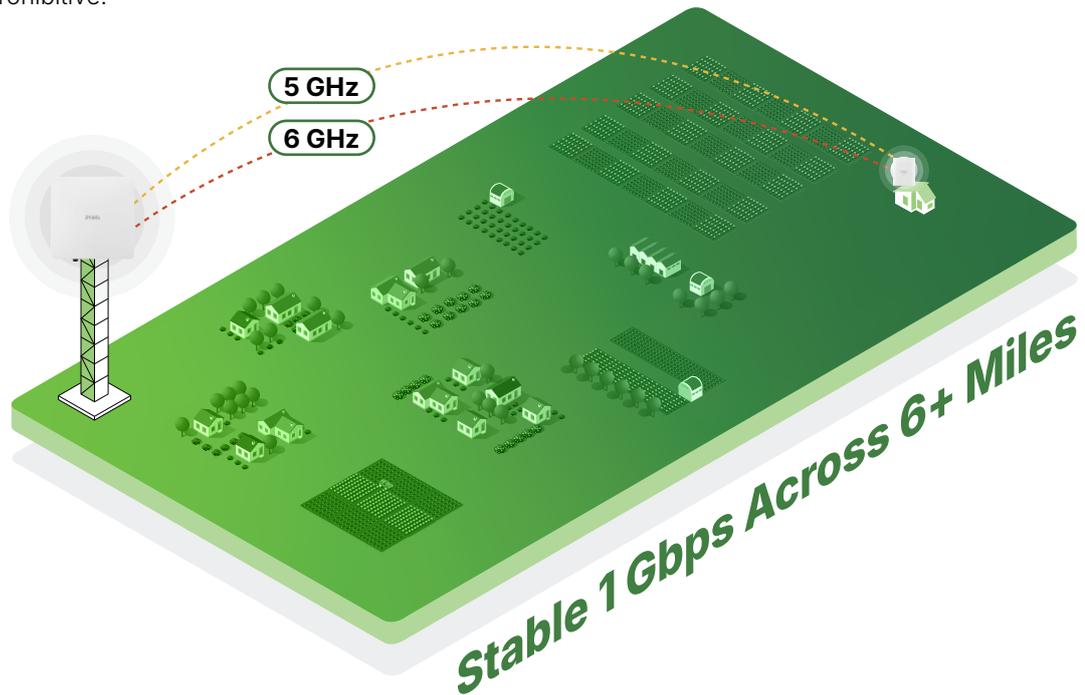
New Spectrum, New Revenue

Stop fighting for crowded airwaves. Tap into clean, AFC-coordinated 6 GHz for predictable, interference-free bandwidth typically reserved for licensed bands. This empowers you to launch higher-margin gigabit services and drive ARPU—all with the ease of unlicensed investment.



Fiber-Like Reach: 1 Gbps Sustained at 6+ Miles

Deliver predictable, gigabit-class performance over long-range rural deployments. This real-world proven throughput allows you to provide fiber-grade broadband where trenching is impractical or cost-prohibitive.



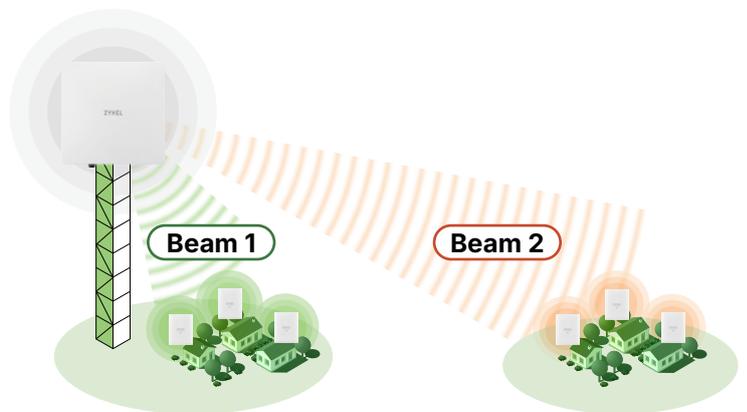
System Efficiency & Profitability

Zero-Touch OPEX Reduction

Slashing maintenance costs starts with Nebula Cloud. Our platform enables zero-touch provisioning and remote AI troubleshooting, significantly reducing "Truck Rolls" and speeding up service turn-up for a faster ROI.

Dual-beam Smart Antenna

Maximize sector efficiency with adaptive beam selection. Our smart antenna balances near-field and far-field clients, ensuring consistent link stability across your entire deployment area.



End-to-end Connectivity: from Fiber to Cloud

Build your network with a single, trusted partner. From 10G/25G Fiber backhaul and MLO-enabled PTMP last-mile delivery to subscriber WiFi 7 routers—manage everything through a single-pane-of-glass with Nebula Cloud.

- **PTMP Solution**

FWA7 Root Plus (Base Station) and Leaf Plus (subscriber CPE), featuring concurrent 5 GHz and 6 GHz MLO.

- **PTP Solution**

NWA55AX PTP CPE—budget-friendly WiFi 6 AX2400 for extending dedicated service or short-range backhaul.

- **Active Fiber & PON**

High-capacity 10G/25G switches and cost-effective OLT/ONT solutions for hybrid FTTH build-outs.

- **Multi-Gig Infrastructure**

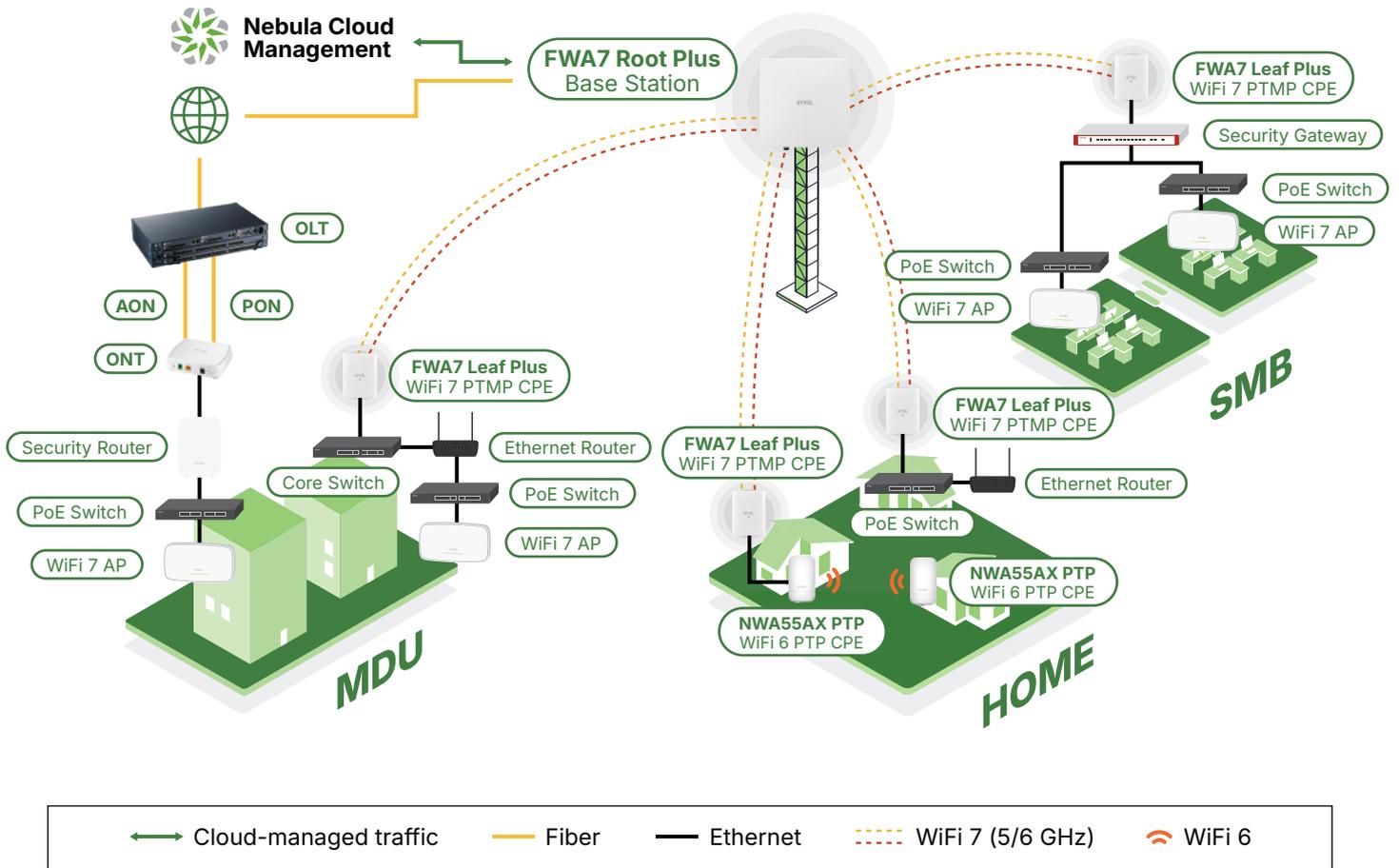
A comprehensive portfolio of WiFi 7 APs, Firewalls, and L3 Switches.



Overcome WISP Hurdles with Zyxel Excellence

The Challenges	Our Solution
<p>Spectrum Congestion: Overcrowded 5 GHz bands causing link drops and limited capacity.</p>	<p>MLO-enabled PTMP: Concurrent 5 + 6 GHz links utilizing clean, AFC-coordinated spectrum to deliver interference-free, licensed-grade bandwidth for uninterrupted service.</p>
<p>Limited Growth: Single-band technology caps your bandwidth and subscriber scale.</p>	<p>Unleash 3.5x More Capacity: Access the wide 6 GHz pipeline to drive higher ARPU with new, high-value service tiers and unlimited subscriber growth.</p>
<p>Vendor Sprawl: Managing multiple brands for Fiber, Wireless, and LAN is complex and inefficient.</p>	<p>End-to-End Connectivity: A unified stack managed under a single-pane-of-glass with Nebula Cloud.</p>
<p>High Maintenance Costs: Frequent "Truck Rolls" for troubleshooting eat into your profits.</p>	<p>Zero-Touch OPEX Reduction: Nebula Cloud enables remote AI troubleshooting and ZTP, slashing onsite costs.</p>
<p>Infrastructure Costs: High tower rentals and the need for more sites to cover rural areas.</p>	<p>Maximum Reach, Lower TCO: Reduce tower footprint with 1 Gbps performance over 6+ miles, accelerating your ROI.</p>

Deployment Topology



MLO-Enabled PTMP Solution

FWA7 Root Plus / Leaf Plus



- WiFi 7 MLO**
Concurrent 5 + 6 GHz
- Dynamic Time-Based Resource Management**
Lower latency
- Smart Antenna**
Dual-beam design
- Smart Rate Limits**
Fair bandwidth
- Nebula Cloud**
Easy setup & management
- Explore more**

For more product information, visit us on the web at www.zyxel.com

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