Omada Solution for Small to Mid-Size Offices

Simplicity and functionality are the key principles for designing a small and medium-sized office network setup. To drive business growth, offices require reliable network systems involving more clients—both wired and wireless—more bandwidth-demanding applications, and more customized services like VPN.
Omada, a Software Defined Networking solution, provides one-stop access to high-quality services and high-performance products, ideal for use in small to mid-size offices.

What Omada Offers

One-Stop Solution and Product Options

- ✓ From routers, switches, access points, controllers, to an end-to-end solution refresh
- ✓ Flexible controller options including Hardware, Software, and Cloud-Based Controllers

Software Defined Networking (SDN)

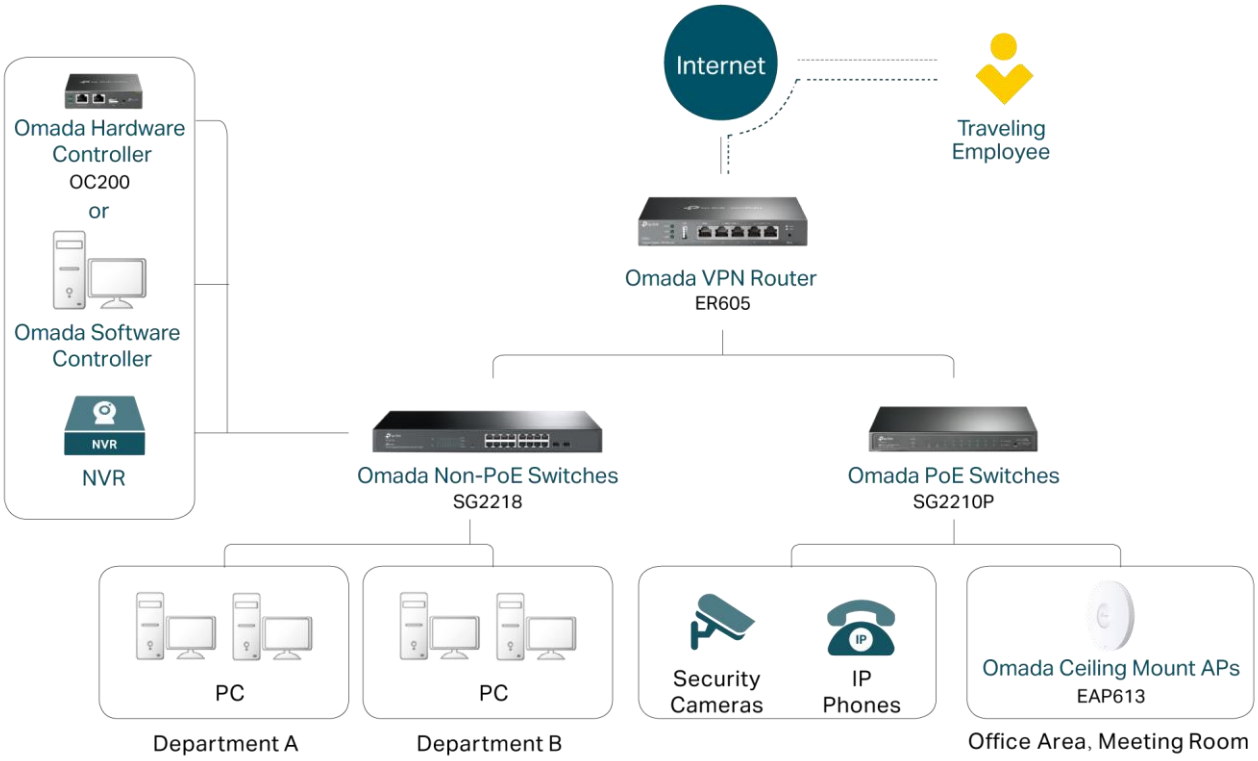
- ✓ Unified network management
- ✓ Zero-Touch Provisioning
- ✓ Multi-Customer and Multi-Site Management
- ✓ Customized user management permissions
- ✓ Network monitoring and integrated troubleshooting tools

Reliable Performance and Enterprise Security

- ✓ Always-on Wi-Fi coverage
- ✓ Enterprise security functions including WPA3 and VPN
- ✓ Portal and 802.1X staff authentication
- ✓ Content filter and monitoring
- ✓ Load Balance and Loop Detection for robust network stability

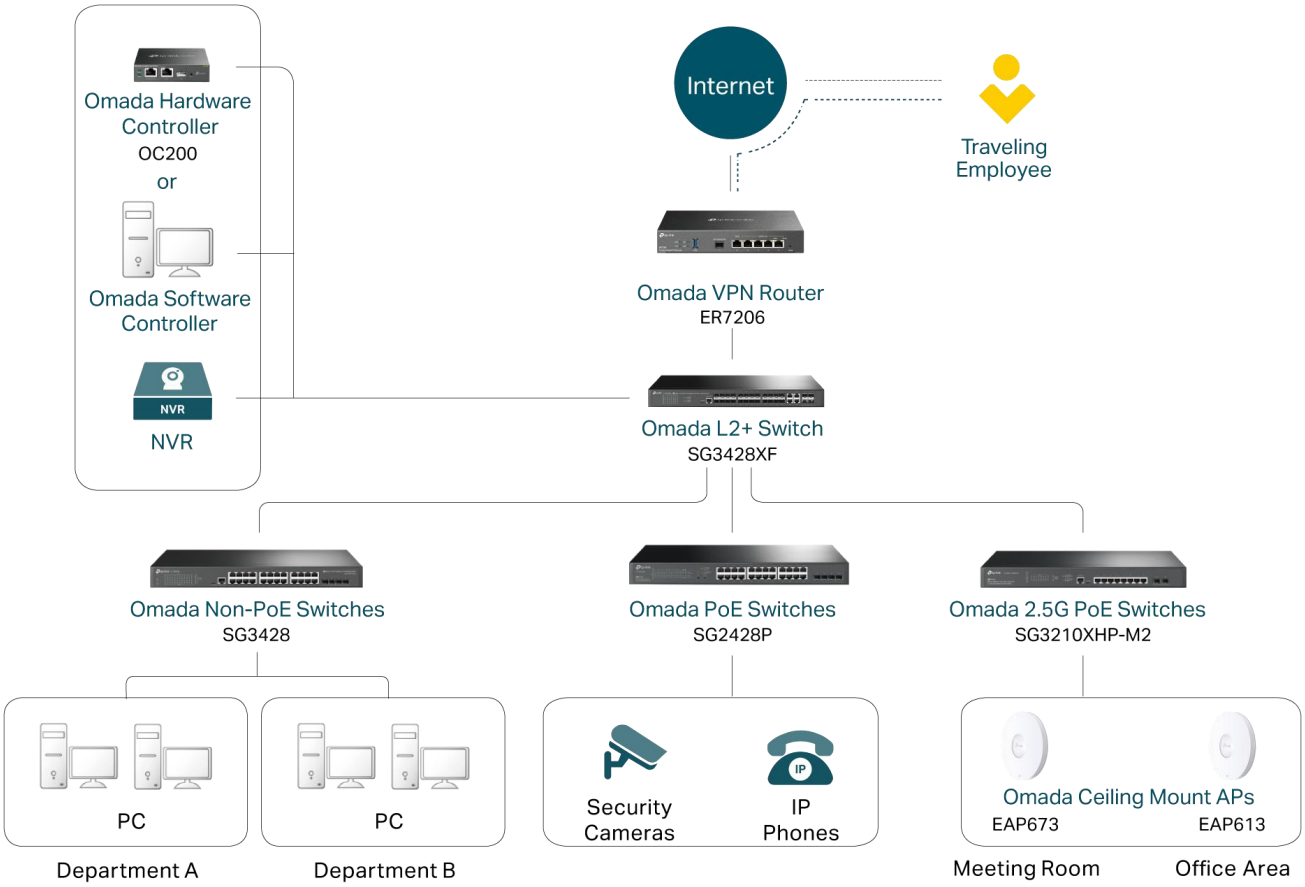
Typical Solution Topology and Product Recommendations

1. Small Offices (Less Than 50 Employees)



Small Offices (Less Than 50 Employees)			
Product	**Model**	**Role**	**Features**
Controllers	OC200	Management	Hardware Controller **without running PCs**; Manage up to **130 devices**; Free cloud access
Routers	ER605	Gateway	5× Gigabit RJ45 ports; Up to **3 WAN ports**; Multi-WAN Load Balancing; Firewall; Enterprise-level Wireguard/IPSec/OpenVPN; LTE Backup
Switches	SG2210P	Connecting Access Points, IP Cameras, and IP Phones	**8× PoE+** Gigabit RJ45 ports; 2× Gigabit SFP ports; **61 W** PoE budget
	SG2218	Connecting PCs	16× Gigabit RJ45 ports; 2× Gigabit SFP ports
Ceiling Mount APs	EAP613	Office Areas and Meeting Rooms Wi-Fi	Wi-Fi 6; Up to **1.8 Gbps** Wi-Fi speed; 1× Gigabit RJ45 port; Mesh; Seamless roaming; Captive portal; 802.3at PoE power supply

2. Mid-Size Offices (50–250 Employees)



Mid-Size Offices (50–250 Employees)			
Product	**Model**	**Role**	**Features**
Controllers	OC200	Management	Hardware Controller **without running PCs**; Manage up to **130 devices**; Free cloud access
Routers	ER7206	Gateway	5× Gigabit RJ45 ports + 1× Gigabit SFP ports; Up to **5 WAN ports**; Multi-WAN Load Balancing; Firewall; Enterprise-level SSL/ Wireguard/ IPSecVPN; LTE Backup
Switches	SG3428XF	Core Layer	20× SFP + 4× RJ45/SFP Combo Gigabit ports; **4× 10G** SFP+ ports; Redundant power supplies
	SG3210XHP-M2	Connecting AP with 2.5G PoE Port	**8× 2.5G PoE+** RJ45 ports; **2× 10G** SFP+ ports; **240 W** PoE budget
	SG2428P	Connecting IP Cameras and IP Phones	**24× PoE+** Gigabit RJ45 ports; 4× Gigabit SFP ports; **250 W** PoE budget
	SG3428	Connecting PCs	24× Gigabit RJ45 ports; 4× Gigabit SFP ports
Ceiling Mount APs	EAP673	Meeting Room Wi-Fi	Wi-Fi 6; Up to **5.4 Gbps** Wi-Fi speed; **1× 2.5G** RJ45 port; Mesh; Seamless roaming; Captive portal; 802.3at PoE power supply
	EAP613	Office Area Wi-Fi	Wi-Fi 6; Up to **1.8 Gbps** Wi-Fi speed; 1× Gigabit RJ45 port; Mesh; Seamless roaming; Captive portal; 802.3at PoE power supply

Solution Benefits

1. EASY SETUP, SCALABILITY, AND MANAGEMENT TO FACILITATE BUSINESS

Omada's simplicity enables small and mid-size offices to easily set up and maintain their entire networks, even without professional full-time IT managers.

- **Unified Network Management** — Centrally manage access points, switches, and routers—all controlled from a single easy-to-use interface.
- **Zero-Touch Provisioning** — Enable plug-and-play deployment for new network equipment by creating configuration templates or using GUI-based menus to apply common settings.
- **Flexible Management Architecture Increases Business Agility and Scalability** — Omada offers hybrid cloud (on-premises) hardware and software controllers and Cloud-Based controllers to match enterprise networks of any size. The Omada Hardware Controller supports a centralized management scale of 130 or 700 devices, the software controller and Omada Cloud-Based Controller supports an unlimited scale. Adding or adjusting devices is simple, increasing the agility and scalability of your business.
- **Multi-Customer and Multi-Site Management** — Manage multiple offices without switching controllers in Managed Service Provider (MSP) Mode. It's easier to check and manage multiple sites with a more well-organized management structure.
- **Customized User Management Permissions** — Multi-user privilege assignment is available to increase management efficiency and security. Multi-person management, multi-level permissions, and the ability to add admins as needed enable flexible network operation and maintenance.
- **SNMP v2c/v3** — Provides SNMP read and trap support for industry-standard Management Information Bases (MIB), and private extensions. LLDP facilitates easy mapping of network management applications.

2. RELIABLE PERFORMANCE MATTERS FOR COMPANY OPERATION

Fast connections and stability empower productivity for your business. The performance of the network must deliver an exceptional user experience. When entrepreneurs unify all network operations, it increases their ability to focus on business rather than on whether devices are connecting.

- **Stable Wired Connections from Edge to Core** — Omada offers enterprise routers, L2+ Managed, Smart, Easy Smart, and Unmanaged switches, catering to the demand for dependable networking from edge to core. Building high-speed wired connections and corporate backbone networks is simplified with Omada's 10G, 2.5G, and 1G Ethernet ports. The inclusion of 802.3bt/at/af PoE augments network deployment benefits. Business and employee offices depend significantly on consistent wired internet access, and Omada ensures a stable, fast wired connection as a top priority.
- **Always-On Wi-Fi Coverage** — Omada's Wi-Fi 7 and Wi-Fi 6 infrastructure is designed to support offices of any size with always-on, secure connectivity. Simultaneous connections to hundreds of devices without impacting Wi-Fi quality are supported. These ensure a smooth internet experience for daily office activities, like video meetings and large-file transfers and downloads, even in busy meeting rooms.
- **AI Roaming for Uninterrupted Streaming** — Ensures staff enjoy uninterrupted video and voice calling when moving around the office by switching clients automatically to the access points with the optimal signal. AI Roaming facilitates Fast Roaming and further optimizes the roaming experience.
- **Advanced Functions for Robust Network Stability and Performance** — Supported by Multi-WAN routers, Load Balance, Storm Control, Loop Detection, Ethernet Ring Protection Switching (ERPS), LACP, QoS, Voice VLAN, and IPv6.
- **Quick Troubleshooting for Minimized Interruption** — Real-time network status, network monitoring, and integrated troubleshooting tools, such as PING, Traceroute, DNS QUERY, Terminal, and Packet Capture, allow for quick troubleshooting, even when the IT manager is away.

3. NETWORK SECURITY SHOULD ALWAYS BE ASSURED

Cybersecurity is always the primary assurance when establishing an enterprise network. Company confidential information and privacy, business data, and employee information must be protected.

- **Protects the Company Network from Threats** — A robust firewall and advanced security functions protect networks and data. Attack Defense, high-security VPN, Access Control List (ACL), advanced WPA3 encryption, Captive Portal, 802.1X Authentication, MAC-Based Authentication, URL identification and filtering, MAC Filtering, IP-MAC-Port Binding, VLAN Binding, Port Security, and Guest Network are provided.
- **Secure Networking with Authentication** — Provide secure Wi-Fi access to authorized users (staff and authorized visitors) with multiple authentication options (802.1X/Radius/Local Database/TACACS+). Users and devices have restricted access to only those network, IT, and application resources for which they have been approved. Optional Guest Network provides secure access to guests visiting the company.
- **VLAN to Divide Department Traffic** — Assign VLANs to each department to segment staff traffic and enhance security. Policies are carried across the network end-to-end, regardless of the location of the user or device or the switch port carrying the traffic. Furthermore, Bridge VLAN saves up to 95% of the time for VLAN configuration when configuring 256 VLANs.
- **Two-Factor Authentication Enhances Account Security** — Dramatically improves the security of your network management account and all the personal information you store with TP-Link.
- **Know What Is On the Network** — Omada's easy-to-use dashboard lets you see your real-time network status and check network usage and traffic distribution. The network topology helps IT admins quickly see and troubleshoot connections at a glance.

4. MATCH YOUR BUSINESS WITH A FLEXIBLE NETWORK

- **Work from Home with VPN Technology** — Omada provides a secure and enterprise-standard VPN to allow staff to visit the office network even at home. The networks of each subsidiary can access the intranet of the Headquarters simultaneously.
- **Flexible Criteria Management** — Use different SSIDs, Access Control, and VLAN binding technologies to identify key network user profiles to deploy customized operating criteria. Configure clients with bandwidth management, device limit, and access permission to align with the company's strategy.
- **Online Behavior Moderation** — Staff need to focus on business, not entertainment. Easily specify the internet access rights and strategies of employees via IP/MAC/URL Filtering and Access Control List (ACL).

Scan the QR code to learn

How to Set Up an Omada Network for an Office

TP-Link Omada Deserves Your Trust

Better Support

We are available for you — call, email, chat, and visit the community with your pre-sales, post-sales, and installation questions.

- ✓ Localization Support Teams
- ✓ Official Omada Community
- ✓ Dedicated Omada Support
- ✓ Certification and Training

Extended Product Warranties

- ✓ 5-Year Product Warranty in the US region*

*Applicable to Omada products in the US region. Certain products have a 2-year warranty. Go to https://www.tp-link.com/us/support/replacement-warranty/ for details. Warranty may vary between regions/countries.

Vertical Integration and Stable Supply

- ✓ A Genuine Manufacturer with vertically integrated supporting facilities ensures complete quality, cost control, and high-level manufacturing, enabling better value than traditional OEM's
- ✓ Controls the cycle time and improves production efficiency
- ✓ Local warehouse for sufficient local stocks and fast delivery*

*Applicable to the US region and may vary between regions/countries.

A Best-In-Class Total Value

- ✓ A Best-In-Class Total Value means reliable industry-standard solutions, comprehensive services, better support, and competitive pricing
- ✓ World's No. 1 Wi-Fi Product Provider for 12 consecutive years*
- ✓ Over 20 years of product testing and manufacturing have built our hard-earned reputation for reliability

*Source: IDC Worldwide Quarterly Wireless LAN Tracker, Q4 2022 (claim based on worldwide shipments).

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