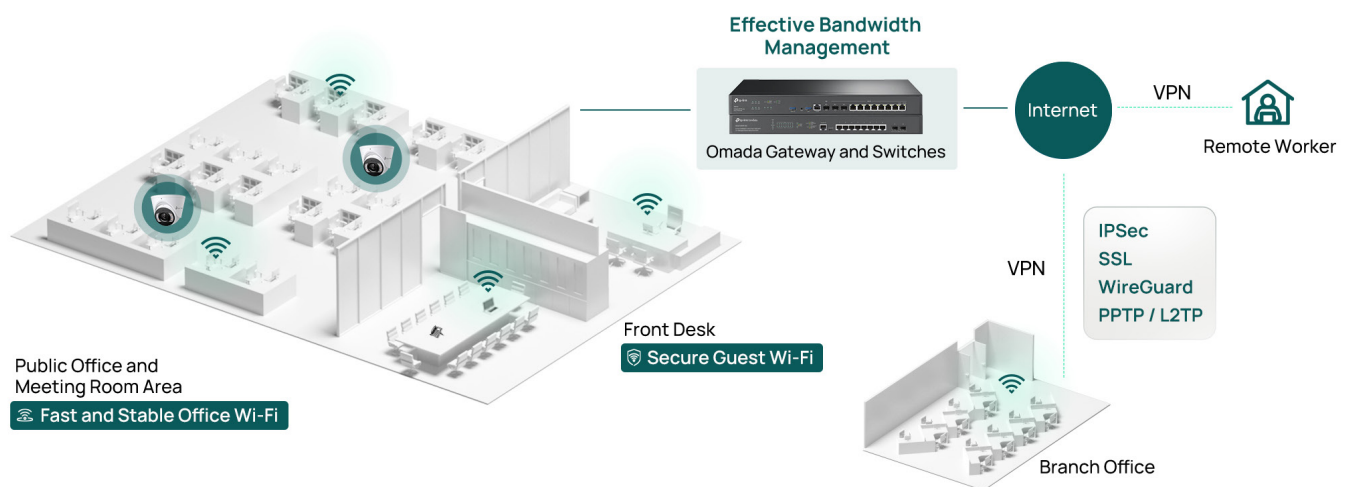# Omada Networking Solution for
Small to Mid-Size Offices

Omada's Software-Defined Networking (SDN) solution is designed for the specific needs of small to mid-sized offices. With a focus on simplicity, security, and stability, Omada streamlines network management and ensures reliable, high-quality connectivity. From staff and guest Wi-Fi to VoIP and CCTV, Omada's comprehensive network solutions support all key office functions seamlessly.

Effective Bandwidth Management

Omada Gateway and Switches

Internet

VPN — Remote Worker

VPN

IPSec
SSL
WireGuard
PPTP / L2TP

Branch Office

Front Desk
🛡 Secure Guest Wi-Fi

Public Office and Meeting Room Area
📶 Fast and Stable Office Wi-Fi

What Omada Brings to Office Networking

1. Reliable Office / Guest Wi-Fi in Every Corner

✓ **Seamless Roaming**

Uninterrupted streaming when walking around

✓ **Secure Guest Wi-Fi**

Enable VLAN-isolated guest Wi-Fi with a single click

✓ **One-Click WLAN Optimization**

Reduced interference with automatic channel selection and power adjustment

2. Unified Auto Provision for IP Phones

Seamlessly integrate IP phones into a Voice VLAN with automatic configuration

✓ **LLDP and LLDP-MED**

Omada switches automatically detect IP phones

✓ **Voice VLAN**

Auto adds IP phones to the dedicated VLAN to separate voice data

✓ **DHCP Option 66/150**

DHCP options including options 66/150 automatically provision IP phones

3. Enhanced IP Camera Security, Stability, and Efficiency

Utilize these Omada switch features to boost CCTV network security and reliability:

✓ **Access Control List (ACL) and Port Isolation**

Prevents unauthorized access for greater security

✓ **820ft (250m) PoE Transmission**

Software-controlled Extend Mode of Omada PoE switches

✓ **Assured Stable Video Quality**

QoS, PoE Auto Recovery, remote camera reboot, and auto loop detection.

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4. Reliable WAN Connections, VPN, and Employee Behavior Management

✓ **4G and Multi-WAN Backup and Load Balancing**

Higher reliability and efficiency

✓ **Enterprise VPN**

SSL/WireGuard/IPSec/PPTP/ L2TP VPN & OpenVPN

✓ **Employee Internet Access Management**

Content/URL filtering. DPI for application identification and control

5. Bandwidth Management and DHCP Reservation in Office Networks

✓ **Effective Bandwidth Management**

Flexible flow control strategy

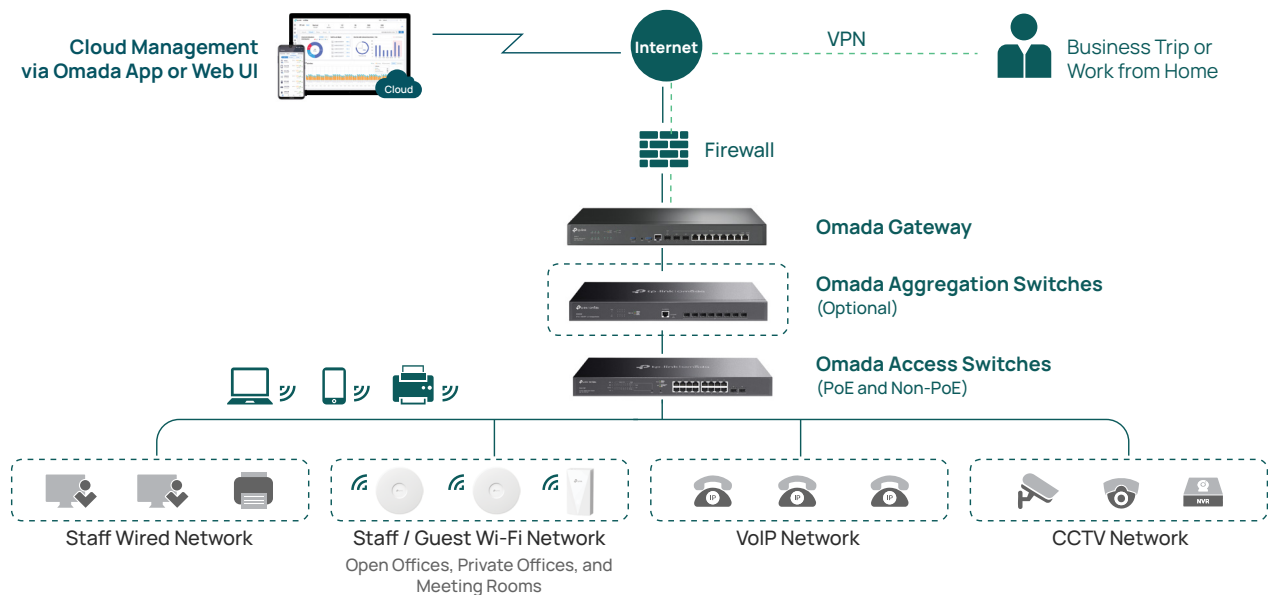✓ **DHCP Reservation**

Avoid reconfiguration even after reboots

6. Additional Features for Medium or Large Offices

✓ **High-Availability L3 Switch & Stacking**

VRRP, ERPS, RIP & OSPF, PIM-SM/ DM, ECMP, PBR, and more

✓ **RADIUS and LDAP Authentication**

Secure network access to authorized users with 802.1X/Radius/ LDAP etc.

✓ **Spanning Tree Protocol (STP)**

Prevents network loops for higher reliability

7. Management Convenience for SIs / MSPs

✓ **Easy Setup with ZTP (Zero-Touch Provisioning)**

No IT expertise required for on-site installation

*Cloud-Based Controller required

✓ **Cloud Management and Remote Troubleshooting**

No requirements for on-site IT maintenance, essential for offices lacking dedicated IT staff

✓ **MSP Mode for Multi-Customer and Multi-Office Management**

⟳ Typical Solution Topology and Product Recommendations

Cloud Management via Omada App or Web UI

Internet

VPN

Business Trip or Work from Home

Firewall

Omada Gateway

Omada Aggregation Switches (Optional)

Omada Access Switches (PoE and Non-PoE)

Staff Wired Network

Staff / Guest Wi-Fi Network
Open Offices, Private Offices, and Meeting Rooms

VoIP Network

CCTV Network

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1. Small and Micro Offices ‹20 Employees

Product	Model	Quantity	Role	Features
Controllers	OC200	1	Manage gateways, switches, and APs	Hardware Controller **without running PCs**; Manage up to **130 Omada devices**; Free cloud access
Routers	ER7206	1	Gateway	5× GE RJ45 ports; 1× GE SFP slot; Load Balancing on up to **5× WAN ports**; VPN
Switches	SG3428MP	1	Connect APs, IP phones, and cameras	**24× GE PoE+** RJ45 ports; 4× GE SFP ports; **384W** PoE budget
	SG3428	1	Connect PCs and printers	**24× GE** RJ45 ports; 4× GE SFP ports
Ceiling Mount APs	EAP653	2-3	Wi-Fi for public offices and meeting rooms	Up to **3.0 Gbps** Wi-Fi 6 speed; 4× spatial streams; 1× Gigabit PoE+ port; Mesh; Seamless roaming; 1500 ft² (140m²) Wi-Fi coverage

2. Small Offices 20–100 Employees

Product	Model	Quantity	Role	Features
Controllers	OC300	1	Manage gateways, switches, and APs	Hardware Controller **without running PCs**; Manage up to **700 Omada devices**; Free cloud access
Routers	ER8411	1	Gateway	**2× 10GE SFP+**, 1× GE SFP, 8× GE RJ45 ports; Load Balancing on up to **10× WAN ports**; VPN
Switches	SX3008F	1	Aggregation Switch	**8× 10G** SFP+ slots, ERPS
	SG3210XHP-M2	1-2	Connect APs	**8× 2.5G PoE+** RJ45 ports; **2× 10G SFP+** ports; **240W** PoE budget
	SG3452XP	1-2	Connect IP phones and cameras	**48× GE PoE+** RJ45 ports; **4× 10G** SFP slots; **500W** PoE budget
	SG3452X	1-2	Connect PCs and printers	**48×** GE RJ45 ports; **4× 10G** SFP slots
Ceiling Mount APs	EAP723	4-10	Wi-Fi for public offices, private offices, and meeting rooms	Wi-Fi 7; Up to 5.0 Gbps (US version) / 3.6 Gbps (EU version) Wi-Fi Speed; 1× 2.5G PoE+ port; Bluetooth; Mesh; Seamless roaming; 1500 ft² (140 m²) Wi-Fi coverage

3. Mid-size Offices 100-300 Employees

Product	Model	Role	Features
Controllers	OC400	Manage gateways, switches, and APs	Hardware Controller **without running PCs**; Manage up to **1,300 Omada devices**; Free cloud access
Routers	ER8411	Gateway	**2× 10GE SFP+**, 1× GE SFP, 8× GE RJ45 ports; Load Balancing on up to **10× WAN ports**; VPN
Switches	SX3000 series	Aggregation Switch	Full **10G SFP+** slots
	SG3000-M2 PoE series	Connect APs	Full 2.5G PoE+ or PoE++ Ports with 10G Uplink
	SG3000 PoE series	Connect IP cameras and phones	Gigabit PoE+ ports with 10G uplink
	SG3000 series	Connect PCs and printers	Gigabit or 2.5G ports with 10G uplink
Ceiling Mount APs	EAP772	Wi-Fi for public offices and meeting rooms	Wi-Fi 7 tri-band; Up to 11.0 Gbps (US version) / 9,214 Mbps (EU version) Wi-Fi speed; 1× 2.5G PoE+ port
Wall Plate APs	EAP725-Wall	Wi-Fi for private offices	Wi-Fi 7; Up to 5.0 Gbps (US version) / 3.6 Gbps (EU version) Wi-Fi speed; 2×2.5G ports (one supporting PoE pass-through) and 2× GE ports

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4. Key Products for Larger Offices `300+ Employees`

● Recommend

Omada L3 Switches	Omada L3 PoE Switches	Omada Wi-Fi 7 Access Points	
👍	👍	👍	👍
26-Port 10G Stackable L3 Managed Aggregation Switch with 6× 25G Slots	48-Port Gigabit Stackable L3 Managed PoE+ Switch with 6× 10G Slots	BE11000 Ceiling Mount Wi-Fi 7 Access Point	BE5000 Wall Plate Wi-Fi 7 Access Point
SX6632YF	**SG6654XHP**	**EAP773**	**EAP725-Wall**

○ Cases

Omada Offers Seamless Wi-Fi Coverage for Exhibo S.p.A. Offices

"Thanks to the new Omada TP-Link system, we have the new Wi-Fi 6 technology available which effectively allows a seamless connection. Therefore we can move around all the rooms of the office without ever losing the connection. … thanks to the new Omada system we are able to have more efficiency and therefore greater business in everyday life."

- Andrea Calosso, BU Manager SBU Professionale of Exhibo S.p.A.

Full Wi-Fi Coverage for the Warehouses and Offices of the Autotrasporti Barbieri

Mitmongkol Co., Ltd., Bangkok Office Plant Omada PoE Switches and 50pcs APs

Omada Deserves Your Trust

Backed by TP-Link's 28 years of innovation, Omada offers reliable, professional, and innovative networking solutions with top-tier quality and performance.

✓ Genuine Manufacturer with Vertically Integrated Facilities and Strict Quality Control for Product Stability

✓ Profit Assurance with Easy Installation and Dedicated B2B Channel

✓ Up to 5-Year Extended Product Warranties*

✓ Best-in-Class Total Value

✓ Local Tech Support and Sales Team

✓ Large Local Inventory* for Fast Availability

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

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