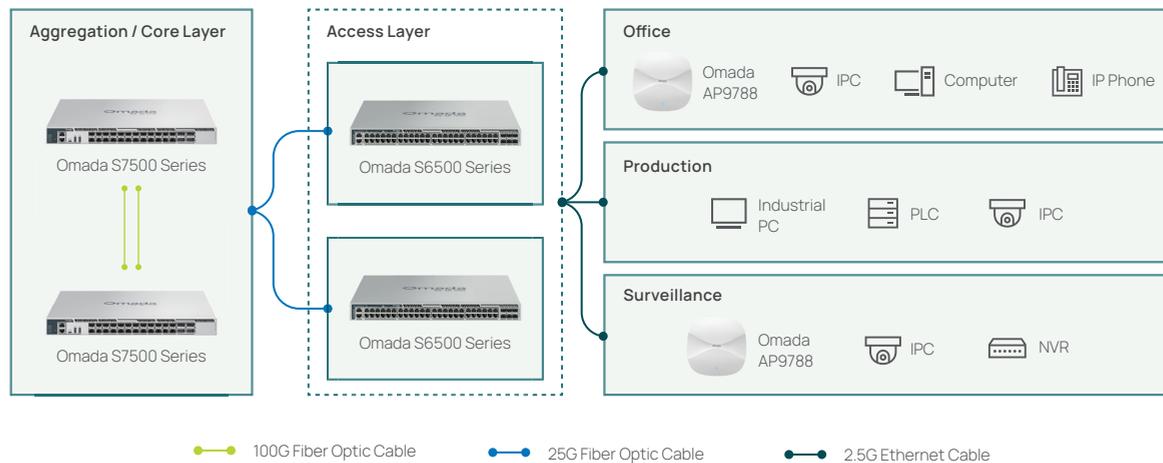# Omada
by tp-link

Empowering Campus Connectivity with the Omada Campus Series

As Wi-Fi 7 emerges and businesses migrate to the cloud, legacy campus networks struggle with bandwidth constraints, management complexity, and security risks. The Omada Campus Series is engineered to deliver a high-reliability, high-bandwidth, low-latency network foundation with seamless scalability for both enterprise and industrial environments.

- ✓ High-Speed Coverage for a Seamless Wireless Experience Everywhere.
- ✓ High-Availability Design for Uninterrupted Business Continuity.
- ✓ Unified Intelligent Management to Simplify Complex Network Operations.

Aggregation / Core Layer
- Omada S7500 Series
- Omada S7500 Series

Access Layer
- Omada S6500 Series
- Omada S6500 Series

Office
- Omada AP9788
- IPC
- Computer
- IP Phone

Production
- Industrial PC
- PLC
- IPC

Surveillance
- Omada AP9788
- IPC
- NVR

- ━━ 100G Fiber Optic Cable
- ━━ 25G Fiber Optic Cable
- ━━ 2.5G Ethernet Cable

High-Speed Coverage for a Seamless Wireless Experience

AP9788
Campus Wi-Fi 7 BE22000 Ceiling Mount Access Point

- Wi-Fi Speeds up to 22 Gbps
- Tri-Band 12-Stream
- 2× 10 Gbps PoE++ Ports, 1× 10 Gbps SFP+ Slot
- Dedicated RF Scanning
- AFC-Enabled 6 GHz
- Smart Antennas
- Up to 1,500 Concurrent Clients
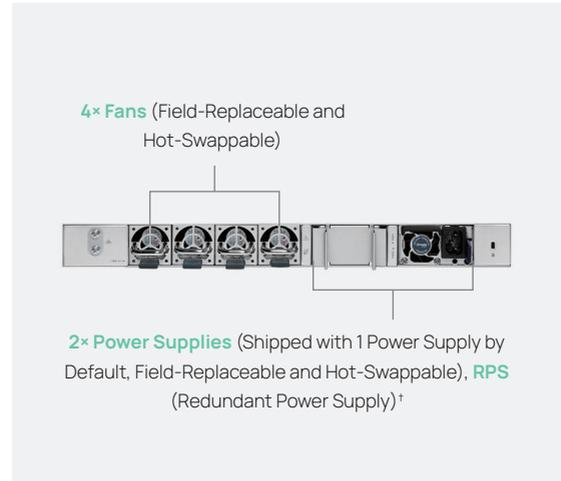- Supports LAG, WIDS/WIPS

AP8788
Campus Wi-Fi 7 BE15000 Indoor/Outdoor Access Point

- Wi-Fi Speeds up to 22 Gbps
- Tri-Band 12-Stream
- AFC-Enabled 6 GHz
- Switchable Omni/Directional Antennas
- 2× 10 Gbps PoE++ Ports, 1× 10 Gbps SFP+ Slot
- IP68 Waterproof
- Up to 1,500 Concurrent Clients
- Supports LAG, WIDS/WIPS, GNSS

High-Availability Design for Uninterrupted Business Continuity

▪ **Physical Stacking of 12 Units Simplifies Management & Increases Redundancy**
- Physical stacking up to **12 units** in standalone mode and 4 units in controller mode
- Switching link recovery time is **less than 200 ms** when a link failover occurs
- Up to **4× 100** Gbps QSFP28 slots and 24× 25 Gbps SFP28 slots per unit for the core layer*
- Up to **2,000 Gbps** switching capacity for core networks*

▪ **1+1 Redundant Power Supply (RPS) & Fans Guarantee 24/7 Mission-Critical Uptime**

▪ **M-LAG Improves Link Reliability from the Card Level to the Device Level**

▪ **Advanced L3 Routing Delivers Network Design Flexibility, Including Static Routes, RIP, OSPF, BGP, VRRP, VRF, GRE, PIM, and PBR**

▪ **ERPS Protocol Provides Sub-50ms Carrier-Grade Link Recovery**

▪ **Enhanced Security and Data Privacy via MACsec,** ** Secure Boot, RADSEC, IMPB, SFTP, and 802.1X**

4× Fans (Field-Replaceable and Hot-Swappable)

2× Power Supplies (Shipped with 1 Power Supply by Default, Field-Replaceable and Hot-Swappable), **RPS** (Redundant Power Supply)[†]

Unified Intelligent Management to Simplify Network Operations

Cloud

▪ Multi-level health monitoring auto-assesses network status to resolve issues proactively.
▪ Smart topology visualizes the entire network to accelerate troubleshooting with customizable filters.
▪ Detailed client management enhances visibility through automatic recognition and granular data charts.
▪ Smart traffic insights provide real-time application analysis for faster and more actionable optimization.

More Omada Layer 3 Switches for Reliable Campus Networking

		25G with 100G Uplink	10G with 25G Uplink	2.5G with 25G Uplink		1G with 10G Uplink	
Product Picture							
Model		S7500-24Y4C	S7500-26XF6Y	S6500-48MPP6Y	S6500-24MPP4Y	S6500-48GP6XF	S6500-24GP4XF
Hardware	Ports	• 24× 25 Gbps SFP28 Slots • 4× 100 Gbps QSFP28 Slots	• 26× 10 Gbps SFP+ Slots • 6× 25 Gbps SFP28 Slots	• 48× 2.5 Gbps PoE++ RJ45 Ports (Max 90 W/port) • 6× 25 Gbps SFP28 Slots	• 24× 2.5 Gbps PoE++ RJ45 Ports (Max 90 W/port) • 4× 25 Gbps SFP28 Slots	• 48× Gigabit PoE+ RJ45 Ports • 6× 10 Gbps SFP+ Slots	• 24× Gigabit PoE+ RJ45 Ports • 4× 10 Gbps SFP+ Slots
	Management Ports	1× Gigabit RJ45 & 1× USB Type C Console Ports, 1× Gigabit RJ45 MGMT Port, 2× USB Ports					
	RPS	Optional 1+1 RPS (Field-Replaceable and Hot-Swappable)[†]					
	Fans	4× Fans (Field-Replaceable and Hot-Swappable)					
PoE	PoE Port	-	-	48× PoE++	24× PoE++	48× PoE+	24× PoE+
	PoE Power Budget[‡]	-	-	1,484 W	1,534 W	1,440 W	720 W
L3 Features		M-LAG, MACsec,** OSPF, BGP, IS-IS, VRF, VRRP, PIM, ECMP, Static Routing, PBR, PTPv2					
System Management	Omada Centralized Management	Omada Controller, Web UI, CLI, Omada App					
	Standalone Mode	Web UI, CLI, SPAN/RSPAN, sFlow, SNMP					

*Refer to S7500-24Y4C.
**MACsec is supported on the S6500 series.
[†]Ships with one power supply module by default. An additional field-replaceable redundant power supply requires a separate purchase.
[‡]The total PoE budget varies with the power supply modules.

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