

Controller | Datasheet

Omada Software Controller

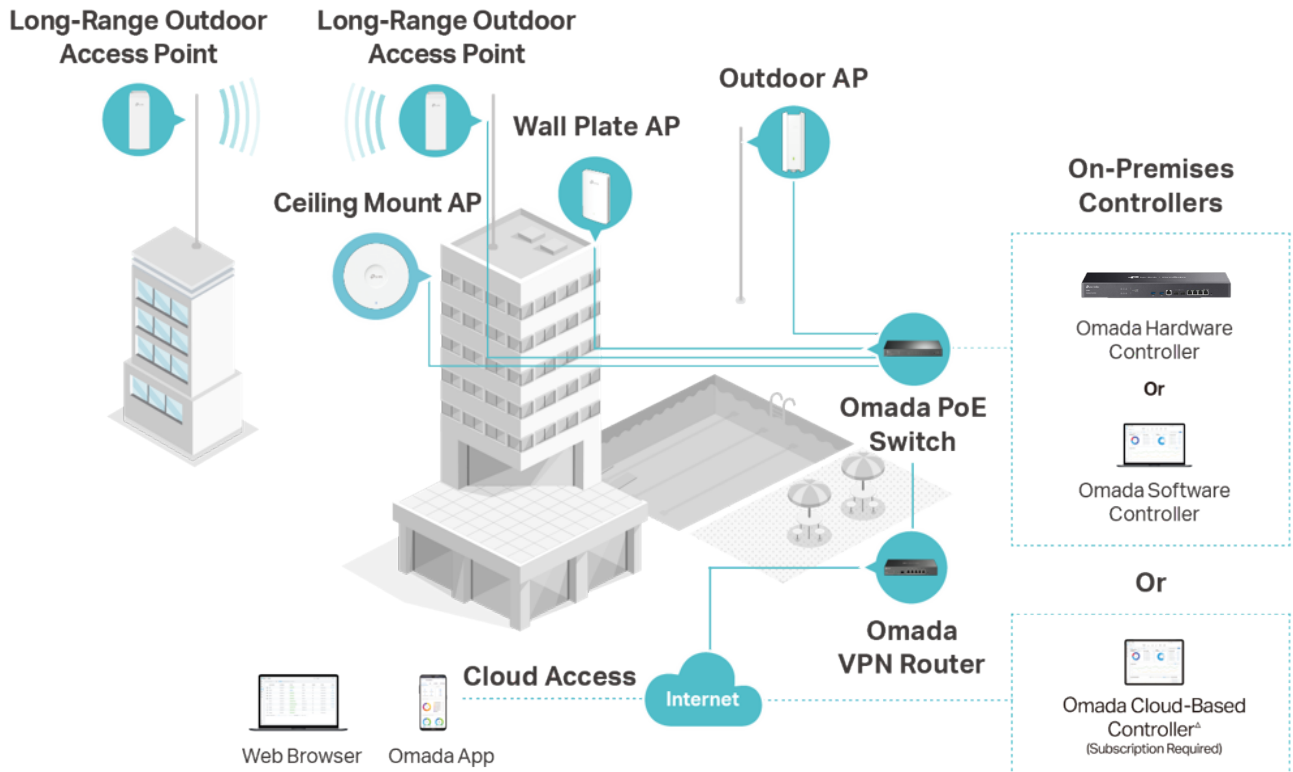


Highlights

- **Centralized Management:** Up to 10,000 Omada access points, switches, and gateways/routers.*
- **Cloud Access:** Manage and monitor with the Omada app or Web UI from anywhere, anytime.
- **Free of Charge:** Download and use locally or from the cloud without additional expense.
- **Easy and Intelligent Network Monitoring:** The easy-to-use dashboard makes it simple to see the real-time network status and traffic distribution.
- **Real-Time Network Topology:** Helps IT admins quickly see and troubleshoot connections at a glance.
- **Easier Network Maintenance:** WiFi heatmap simulator, visualizable network report, and batch & multi-site management benefit network maintenance.

Omada Solution

Omada's Software Defined Networking (SDN) platform integrates network devices, including access points, switches, and gateways, providing 100% centralized cloud management. Omada creates a highly scalable network—all controlled from a single interface.



Specifications

Model		Omada Software Controller
System Management	Multi-Site Management	√
	Multi-tenant Management (Role/Site/Device Privileges)	√
	Cloud Access	√
	Migration (Site Migration/Controller Migration)	√
	Account Management	√
	Maximum Number of Sites	1000
	Maximum Number of Accounts	1000
	Maximum Number of Local Accounts	500
	Maximum Number of Cloud Accounts	500
	Maximum Number of Vouchers	50,000
	Maximum Number of Local Users	50,000
	Maximum Simultaneously Used VLANs	4,090 per site*
	Maximum Number of WLAN Groups	5000
	Maximum Number of SSIDs	16 in each site
	Maximum Number of ACL	For each site: Gateway/Router: 64 Switch: 32** EAP: 16
	Maximum Number of Free Authentication	32 in each site
	Maximum Number of Pre-Authentication Access	32 in each site
	Maximum Number of Authentication Free Policy	96 in each site
	Maximum Number of Reboot Schedule	8 in each site
	Maximum Number of PoE Schedule	8 in each site
	Maximum Number of MAC Filter Groups	8 in each site
	Maximum Number of MAC Addresses in Each MAC Filter Group	500 (4,000 in total per controller)
	Maximum Number of VPN	64 in each site
	Maximum Number of Static Routing	64 in each site
	Maximum Number of Policy Routing	64 in each site
	Backup & Restore	√
	Auto Backup	√
Customized UI Interface	√	

* The actual number of VLANs depends on the switch capacity and it may be less than 4090.

** The actual number of ACL depends on the configuration and it may be less than 32.

Model		Omada Software Controller
Network Management	Wired Network	✓
	Wireless Network	✓
	Network Security (ACL/URL Filtering/Attack Defense)	✓
	Transmission (Routing/NAT/Session Limit/Bandwidth Control)	✓
	VPN (IPSec/L2TP/PPTP/OpenVPN)	✓
	Portal (Voucher/Local User/SMS/RADIUS/Form Auth/ External LDAP Server/External Portal Server)	✓
	802.1x	✓
	RADIUS (Authentication/MAC Auth/Accounting)	✓
Device Management	Management Device Type	Omada EAP, Omada Switch, Omada Gateway/Router*
	Management Scale	≤ 10,000 Devices**
	Device Automatic Discovery	✓
	Batch configuration	✓
	Online upgrade	✓
	Reboot Schedule	✓
	PoE Schedule	✓
	WLAN Scheduler	✓
	DDNS	✓
	SNMP	✓
	SSH	✓
Monitoring	Dashboard (Custom Dashboard)	✓
	Statistics (Performance/Switch Stats/Speed Test Stats)	✓
	Network topology	✓
	Network Map	✓
	Devices List (Custom Table)	✓
	Clients List (Custom Table)	✓
	Insights (Known Clients/Past Connections/Past Portal Authorizations/Rogue APs)	✓
	Logs (Alerts/Events/Custom Notifications)	✓

*Go to <https://www.tp-link.com/business-networking/all-omada/> to find all the device models supported by Omada Software Controller.

**Actual management scale of the Omada Software Controller depends on the PC/server's hardware specifications.

Omada Software Controller can manage up to 10,000 EAPs if the Controller Host has enough hardware resources. To guarantee operational stability for managing 10,000 EAPs, we recommend that you use the hardware which meets or exceeds the following specifications:

- CPU: 64 vCPU, 2.0 GHz
- Memory: 64 GB RAM or more