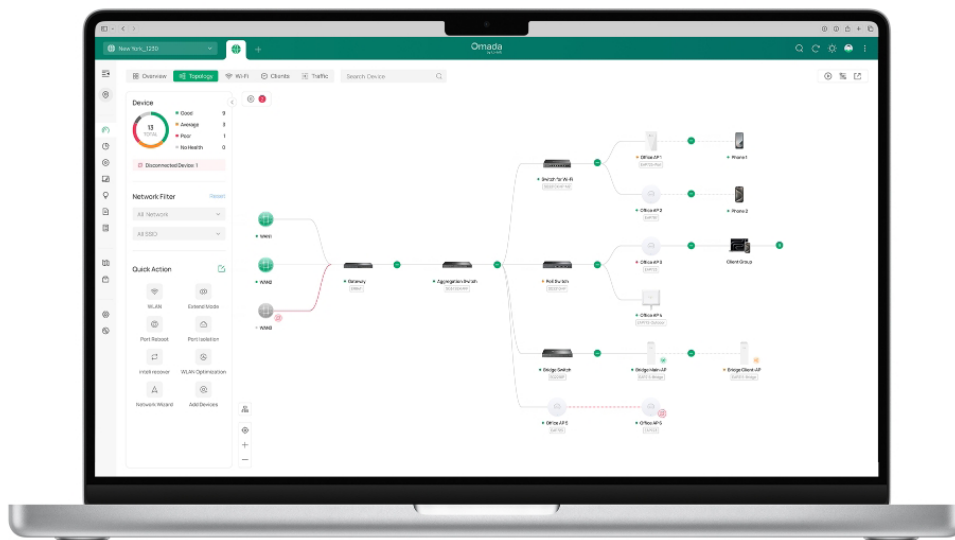


Controller | Datasheet

Omada Network Application (Omada Software Controller)



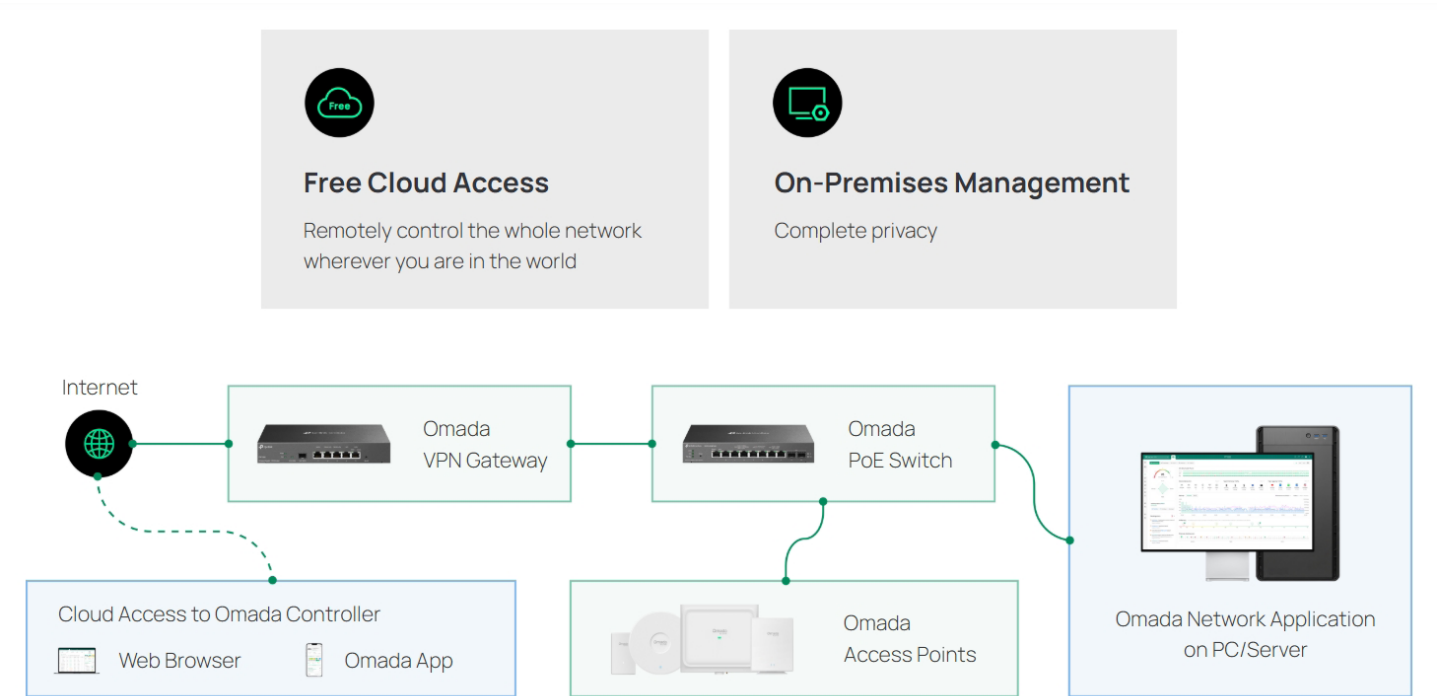
Highlights

- **Centralized Management:** Supports unlimited scale across APs, Switches, Gateways, and OLTs.*
- **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 Setup and Network Maintenance:** Zero-Touch Provisioning (ZTP) for remote setup, and Site & Device Templates, SD-WAN, troubleshooting tools benefit network maintenance.

*Actual management scale of the Omada Network Application (Omada Software Controller) depends on the PC/server's hardware specifications. Go to <https://www.omadanetworks.com/omada-sdn/product-list/> to find all the device models supported by Omada Network Application (Omada Software Controller).

Overview

The Omada Network Application (Omada Software Controller) remotely or locally manages unlimited Omada devices via the Omada app or Web UI.



Specifications

Model		Omada Network Application (Omada Software Controller)
System Management	Multi-Site Management	√
	Multi-tenant Management (Role / Site)	√
	Cloud Access	√
	Migration (Site Migration / Controller Migration)	√
	Account Management	√
	Maximum Number of Sites	5000
	Maximum Number of Accounts	1000
	Maximum Number of Local Accounts	500
	Maximum Number of Cloud Accounts	500
	Backup & Restore (Site, Organization)	√
	Auto Backup	√
	Customized UI Interface	√
	Site Template	√
	OpenAPI	√
	SAML (SSO)	√

Model		Omada Network Application (Omada Software Controller)
Network Management	Wired Network	√
	Wireless Network	√
	Network Security (ACL / URL Filtering / Firewall / IP-MAC Binding / Wireless IDS/IPS / IDS/IPS / Application Control / IMPB)	√
	Transmission (Routing / NAT / Session Limit / Bandwidth Control / Gateway QoS / Switch QoS / VRRP / DHCP Reservation / OUI Based VLAN)	√
	VPN (IPSec / L2TP / PPTP / OpenVPN / SSL VPN / Wireguard VPN)	√
	Portal (Password / Voucher / Local User / SMS / RADIUS / Form Auth / External LDAP Server / External Portal Server / Google)	√
	802.1x	√
	RADIUS (Authentication / MAC Auth / Accounting)	√
	Profiles (Groups / Time Range / Rate Limit / PPSK / RADIUS Profile / LDAP Profile / APN Profile / Certificate Profile)	√
	WAN Settings	√
	mDNS	√
	VoIP	√
	MAC-Based Authentication	√
	MAC Filtering	√
	IPTV	√
	EoGRE Tunnel	√
	Bluetooth	√
	IntelliRecover	√
	Stack	√
	MSP	√
	SD-WAN	√
	Maximum Number of Vouchers	50,000 per site
	Maximum Number of Local Users	50,000 per site
	Maximum Simultaneously Used VLANs	4,090 per site*
	Maximum Number of SSIDs for each AP or AP Group	2.4GHz: 8 5GHz: 8 6GHz: 8
	Maximum Number of ACL	For each site: Gateway/Router: 64 Switch: 32** EAP: 16
	Maximum Number of Free Authentication + Maximum Number of Pre-Authentication Access	64 in each site
	Maximum Number of Authentication Free Policies	96 in each site
	Maximum Number of Reboot Schedules	8 in each site
	Maximum Number of PoE Schedules	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 VPNs	62 in each site
	Maximum Number of Static Routing	64 in each site
	Maximum Number of Policy Routing	64 in each site

* 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 Network Application (Omada Software Controller)
Device Management	Management Device Type	Omada/Omada Campus AP, Omada/Omada Campus Switch, Omada Gateway, OLT*
	Management Scale	Unlimited (Recommended ≤ 10,000 Devices**)
	Device Automatic Discovery	✓
	Batch Configuration	✓
	Online Upgrade	✓
	Reboot Schedule	✓
	PoE Schedule	✓
	WLAN Schedule	✓
	DNS (DDNS / DNS Proxy / DNS Cache)	✓
	SNMP	✓
	SSH	✓
	CLI Configuration (Site CLI / Device CLI / Model CLI)	✓
	Tools (Network Check / Packet Capture / Terminal / Cable Test / Interference Detection / Remote Access)	✓
	License (License Info / License Usage History / License Import/Export)	×
	Firmware (Overview / One-Time Upgrade / Periodic Upgrade / Upload Firmware for Upgrade)	✓
Monitoring	Dashboard	✓
	Network Topology	✓
	Network Map	✓
	Devices List (Custom Table)	✓
	Clients List (Custom Table)	✓
	Insights (Application Analysis / Reports)	✓
	Logs (Alerts / Events / Custom Notifications / Webhook / Remote Logging)	✓
	Audit Logs (Events / Webhook)	✓
	Health Scores (Site / Device / WAN / Wi-Fi / Client)	✓
	Incidents (Incident Analysis / Notifications / Settings)	✓
	Reports (Summary / Wired Summary / Wireless Summary / Clients&Applications / Custom)	✓

*Go to <https://www.omadanetworks.com/omada-sdn/product-list/> to find all the device models supported by Omada Network Application (Omada Software Controller).

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

It's recommended to manage up to 10,000 devices if the Controller Host has enough hardware resources. To guarantee operational stability for managing 10,000 devices, 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

A distributed Cluster with multiple interconnected nodes will significantly increase the overall management scale.