Hardware Controller | Datasheet
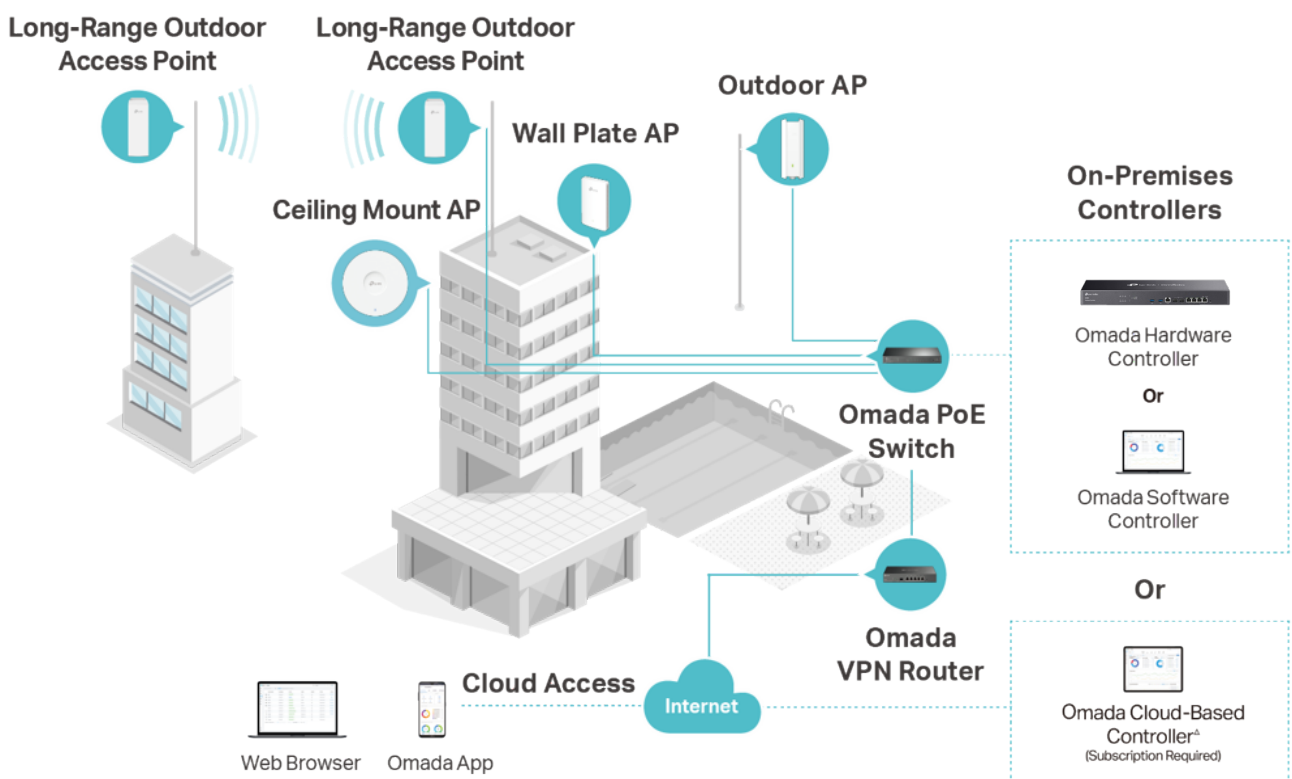
OC400

Highlights

- Centralized Management: for up to 1,000 Omada access points, 200 Omada switches, and 100 Omada routers.
- 2× 10GE SFP+ Slots, 4× GE RJ45 Ports, and 2× USB 3.0 Ports.
- Redundant power supplies offer a reliable networking architecture.
- Free cloud access with the Omada app or Web UI from anywhere, anytime.
- On-premises manages to locally monitor and manage devices.
- The easy-to-use dashboard and real-time network topology make network monitoring easy.
- Batch and multi-site management benefit network maintenance.

Product Pictures

Durable Metal Casing

2× USB 3.0 Ports for Backup

4× Gigabit RJ45 Ports

1× Console Port

2× 10GE SFP+ Slots

Dual Redundant Power Supplies

44mm

440mm

180mm

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.

Long-Range Outdoor Access Point

Long-Range Outdoor Access Point

Outdoor AP

Wall Plate AP

Ceiling Mount AP

On-Premises Controllers

Omada Hardware Controller

Or

Omada Software Controller

Omada PoE Switch

Omada VPN Router

Or

Omada Cloud-Based Controller△
(Subscription Required)

Cloud Access

Internet

Web Browser   Omada App

Specifications

Model		OC400
Main Design	Processor	Quad-Core A72 @ 2.2 GHz
	Memory Information	8 GB DDR4
	Storage	4 MB Nor Flash; 32 GB eMMC
	SFP+ Port	2× 1/10G SFP+
	RJ45 Port	4× 10/100/1000 Mbps Ethernet Ports
	USB Port	2× USB 3.0
	Console	1× RJ45 Console Port
	Interface	1× Kensington Lock; 1× Reset; 1× Ground Screw
Hardware Design	Power Supply	100-240 V ~ 50/60 Hz AC
	Max Power Consumption	22.8W (no USB port connected); 33.1W (with 2 USB ports connected)
	Redundant Power Supplies	2 internal fixed Power Supplies
	FAN	1 FAN
	Dimensions	17.3 × 7.1 × 1.7 in (440 × 180 × 44 mm)
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	100
	Maximum Number of Accounts	1,000
	Maximum Number of Local Accounts	500
	Maximum Number of Cloud Accounts	500
	Maximum Number of Vouchers	60,000
	Maximum Number of Local Users	60,000
	Maximum Number of WLAN Groups	500
	Maximum Number of SSIDs	24 in each site
	Maximum Number of ACL Entries	Router: 64 Switch: 32* EAP: 16
	Maximum Number of Pre-Authentication Access and Authentication Free Policy Entries	96 in each site (including 32 auto-generated Authentication Free Policy entries)
	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 IP Groups	16 in each site
	Maximum Number of MAC Addresses in Each MAC Filter Group	500 (4,000 in total per controller)
	Maximum Number of Static Routing Entries	64 in each site (for Router) 32 in each site (for Switch)
	Maximum Number of Policy Routing Entries	64 in each site
	Maximum Number of Session Limit	64 in each site
	Maximum Number of Bandwidth Control Entries	64 in each site
	Maximum Number of Port Forwarding Entries	32 in each site
	Maximum Number of Radius Profiles	64 in each site
	Backup & Restore	√
	Auto Backup	√
	Customized UI Interface	√

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Model		OC400
Network Management	Wired Network	√
	Wireless Network	√
	Network Security (ACL/URL Fitering/Attack Defense)	√
	Transmission (Routing/NAT/Session Limit/Bandwidth Control)	√
	VPN (SSL/Wireguard/IPSec/L2TP/PPTP/OpenVPN)	√
	Portal (Voucher/Local User/SMS/RADIUS/ External Portal Server)	√
	802.1x	√
	RADIUS (Authentication/MAC Auth/Accounting)	√
Device Management	Management Device Type	Omada EAP, Omada Switch**, Omada Router**
	Management Scale***	≤ 100 Routers + 200 Switches + 1,000 EAPs ≤ 30,000 Clients
	Device Automatic Discovery	√
	Batch configuration	√
	Online upgrade	√
	Reboot Schedule	√
	PoE Schedule	√
	WLAN Scheduler	√
	DDNS	√
	SNMP	√
	SSH	√
Monitoring	Dashboard (Custom Dashboard)	√
	Statistics (Performance/Switch 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)	√
Others	Certifications	CE, FCC, RoHS
	Operating Temperature	0 °C–40 °C (32 °F–104 °F)
	Storage Temperature	-40 °C–70 °C (-40 °F–158 °F)
	Operating Humidity	10%–90% non-condensing
	Storage Humidity	5%–90% non-condensing

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

**Some models are manageable. Please refer to the TP-Link official website for more information.

***The actual management scale will vary as a result of network environment, bandwidth and different settings.

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