tp-link | Omada

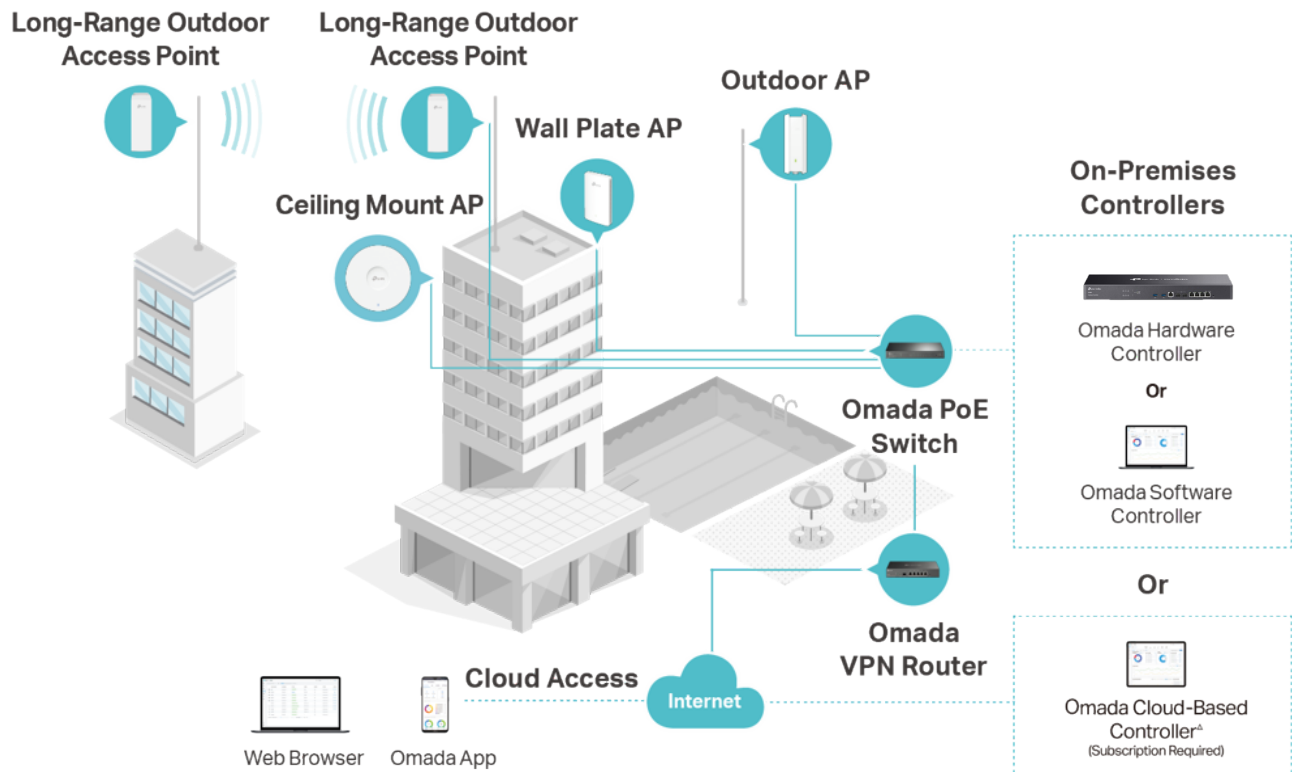# Hardware Controller | Datasheet

OC300

Highlights

- Centralized Management: Up to 500 Omada access points, 100 JetStream switches, and 100 Omada routers.
- Free Cloud Access: Manage and monitor with the Omada app or Web UI from anywhere, anytime.
- On-Premises Management: Locally monitor and manage devices with the ultimate security and stability.
- Industry-Leading Hardware Design: AA powerful chipset, durable metal casing, USB 3.0 port for auto backup, and two Gigabit ports.
- 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.
- Capable of operating and managing wireless communication distribution equipment in compliance with IEEE 802.11n, ·ac, ax and be standards.

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

Or

Omada VPN Router

Cloud Access

Internet

Omada Cloud-Based Controller△
(Subscription Required)

Web Browser   Omada App

tp-link

Specifications

Model		OC300
Main Design	Processor	Quad-Core A72 @ 1.2 GHz
	Memory Information	2 GB DDR4
	Storage	2MB Nor Flash; 8 GB eMMC
	RJ45 Port	2 10/100/1000 Mbps Ethernet Ports
	USB Port	1 USB 3.0 Port
	Interface	1 Kensington Lock; 1 Reset
Hardware Design	Power Supply	100-240 V ~ 50/60 Hz AC
	Max Power Consumption	9.0 W (no USB 3.0 connected); 14.8 W (with USB 3.0 connected)
	Dimensions	11.6 × 7.1 × 1.7 in (294 × 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	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	500
	Maximum Number of SSIDs	16 in each site
	Maximum Number of ACL	For each site: 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		OC300
Network Management	Wired Network	√
	Wireless Network	√
	Network Security (ACL/URL Fitering/Attack Defense)	√
	Transmission (Routing/NAT/Session Limit/Bandwidth Control)	√
	VPN (IPSec/L2TP/PPTP/OpenVPN)	√
	Portal (Voucher/Local User/SMS/RADIUS/Facebook/ External Portal Server)	√
	802.1x	√
	RADIUS (Authentication/MAC Auth/Accounting)	√
Device Management	Management Device Type	Omada EAP, Omada Switch*, Omada Router*, DeltaStream GPON OLTs*
	Management Scale**	500APs, 100 Routers, up to 100 Switches*, up to 5 DeltaStream GPON OLTs* Note: The number of supported Omada Switches decreases by 5 for each DeltaStream GPON OLT added. The DeltaStream GPON OLTs supported by the controller are DS-P7001-04 and DS-P7001-08.
	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)	√
Others	Certifications	CE, FCC, RoHS
	Operating Temperature	0 ℃–50 ℃ (32 °F–122 °F)
	Storage Temperature	-40 ℃–70 ℃ (-40 °F–158 °F)
	Operating Humidity	10%–90% non-condensing
	Storage Humidity	5%–90% non-condensing

*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.

tp-link