

Controller

Hardware Controller: OC200 / OC300 Software Controller



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OC300

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Site

Active EAPs

e EAP225-Office1

Dx Data
 EAPs Switches

Most Active EAPs

AA:8B:CC:DD:EE:FF

07 GB >

12.5 GB > 12.5 GB > 12.5 GB > 3.07 GB >

300 Guesta

Retry Rate Dropped Rate

EAPS S

300

30 EAP

12 Switch

1 Getway

Normal

Ptp-link

OC830 Grade Hand

Retry Rate/Dro

Omada Solution



Hospitality High Quality and Full Coverage Wi-Fi

Education High-Density Wi-Fi



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Office Wireless and Wired Connections

Catering Full Wi-Fi Coverage in High-Density Environment

Software Defined Networking (SDN) with Cloud Access

Omada 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. Seamless wireless and wired connections are provided, ideal for use in hospitality, education, retail, offices, and more.





Hassle-Free Centralized Cloud Management

100% centralized cloud management of the whole network from different sites——all controlled from a single interface anywhere, anytime.



Zero-Touch Provisioning for Efficient Deplyment¹

Omada zero-touch provisioning allows remotely deployment and configuration of multi-site networks, so there's no need to send out an engineer for on-site configuration. The Omada Cloud ensures efficient deployment with lower costs.



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1. Zero-Touch Provisioning is supported when using Omada Cloud-Based Controller

Intelligent Network Analysis, Warning, and Optimization*

- Analyzes potential network problems and sends optimization suggestions for higher network efficiency
- Locates network faults, warns and notify users, and generates solutions to reduce network risk



*Intelligent Network Analysis, Warning, and Optimization are being developed and are scheduled to be released in 2020

Assign Different Management Roles

Auto Channel Selection and Power Adjustment

Provides powerful wireless performance while greatly reducing Wi-Fi interference by automatically adjusting the channel settings and transmission power levels of neighboring APs in the same network.



Multi-tenant privilege assignment is available to increase management efficiency and security. Multi-person management, multi-level permissions, and the ability to add admins as needed, enable flexible network operation and maintenance.



Easy and Intelligent Network Monitoring

The easy-to-use dashboard makes it easy to see your real-time network status; check network usage and traffic distribution; receive network condition logs, abnormal event warnings, and notifications; or even track key data for better business results. Network topology helps IP admins quickly see and troubleshoot connection at a glance.



Comprehensive Protection for the Whole Network



Multiple Factors Guarantee Higher Reliability

Higher reliability of cloud service is guaranteed with 99.99% SLA availability, 24/7 automated fault detection, geographically isolated backup servers, and reliable product quality. Your network functions even if management traffic is interrupted.



Reliable Connections Even with High-Density Clients

Equipped with enterprise chipsets, dedicated antennas, advanced RF functions, auto channel selection, and power adjustment, Omada Wi-Fi 6 and Wi-Fi 5 APs have high concurrency capacities for remarkable performance in high-density environments.



Specifications

Controller Type Model		Hareware Controller		Software Controller	
		OC200 OC300			
Main Design	Processor	Dual-Core A53 @ 1.2 GHz	Quad-Core A72 @ 1.2 GHz	_	
	Memory Information	1 GB DDR3	2 GB DDR4	_	
	Storage	1MB Nor Flash; 4 GB eMMC	2MB Nor Flash; 8 GB eMMC	_	
	RJ45 Port	2 10/100 Mbps Ethernet Ports	2 10/100/1000 Mbps Ethernet Ports	-	
	USB Port	1 USB 2.0 Port; 1 Micro-USB Port	1 USB 3.0 Port		
	Interface	1 Kensington L	ock: 1 Reset		
Hardware Design	Power Supply	802.3af/at PoE; Micro-USB (DC 5 V/ Minimum 1 A)	100-240 V ~ 50/60 Hz AC		
	Max Power Consumption	7.5 W (powered by a PoE device, with USB 2.0 connected);3.5 W (powered via Micro-USB port, no USB 2.0 connected)	9.0 W (no USB 3.0 connected); 14.8 W (with USB 3.0 connected)	-	
	Dimensions	3.9 × 3.9 × 1.0 in (100 × 98 × 25 mm)	11.6 × 7.1 × 1.7 in (294 × 180 × 44 mm)	-	
	Multi-Site Management	√			
	Multi-tenant Management				
	(Role/Site/Device Privileges)	\checkmark			
	Cloud Access	\checkmark			
	Migration (Site Migration/Controller Migration)	\checkmark			
	Account Management	\checkmark			
	Maximum Number of Sies	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 Number of WLAN Groups		500		
	Maximum Number of SSIDs	16 in each site			
		Router: 64			
System Management	Maximum Number of ACL	Switch: 32			
System Management		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	 √			

Controller Type		Hareware Controller		Software Controller
Model		OC200	OC300	-
Network Management	Wired Network	\checkmark		
	Wireless Network	\checkmark		
	Network Security			
	(ACL/URL Fitering/Attack Defense)	\checkmark		
	Transmission			
	(Routing/NAT/Session Limit/Bandwidth Control)			
	VPN (IPSec/L2TP/PPTP/OpenVPN)	√		
	Portal	\checkmark		
	(Voucher/Local User/SMS/RADIUS/Facebook/			
	External Portal Server)			
	802.1x	√		
	RADIUS	\checkmark		
	(Authentication/MAC Auth/Accounting)	Orrenda FAD JatObrana O. 19 Jat O. C. Otto		
Device Management	Management Device Type	Omada EAP, JetStream Switch*, SafeStream Router*		
	Management Scale**	≤ 100 Devices	≤ 500 Devices	≤ 1,500 Devices***
	Device Automatic Discovery	≤ 1,000 Clients ≤ 15,000 Clients		
	Batch configuration	√ √		
	Online upgrade	√ √		
	Reboot Schedule			
	PoE Schedule	√ √		
	WLAN Scheduler	√		
		√		
	SNMP SSH	√		
		√		
Monitoring	Dashboard (Custom Dashboard)	\checkmark		
	Statistics (Performance/Switch Stats/Speed Test Stats)	\checkmark		
	Network topology	\checkmark		
	Network Map	 √		
	Devices List (Custom Table)	* √		
	Clients List (Custom Table)	 √		
	Insights	v		
	(Known Clients/Past Connections/Past Portal	\checkmark		
	Authorizations/Rogue APs)			
	Logs	· · ·		
	(Alerts/Events/Custom Notifications)	\checkmark		
Others	Certifications	CE, FCC	, RoHS	_
	Operating Temperature	0 °C-40 °C (32 °F-104 °F)	0 °C–50 °C (32 °F–122 °F)	-
	Storage Temperature	-40 °C-70 °C (-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.

***Omada Software Controller can manage up to 1500 EAPs if the Controller Host has enough hardware resources. To guarantee operational stability for managing 1500 EAPs, we recommend that you use the hardware which meets or exceeds the following specifications:

-CPU: Intel Core i3-8100, i5-6500, or i7-4700 with 2 or more cores and 4 or more threads.

-Memory: 6 GB RAM or more.

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