Hardware Controller | Datasheet

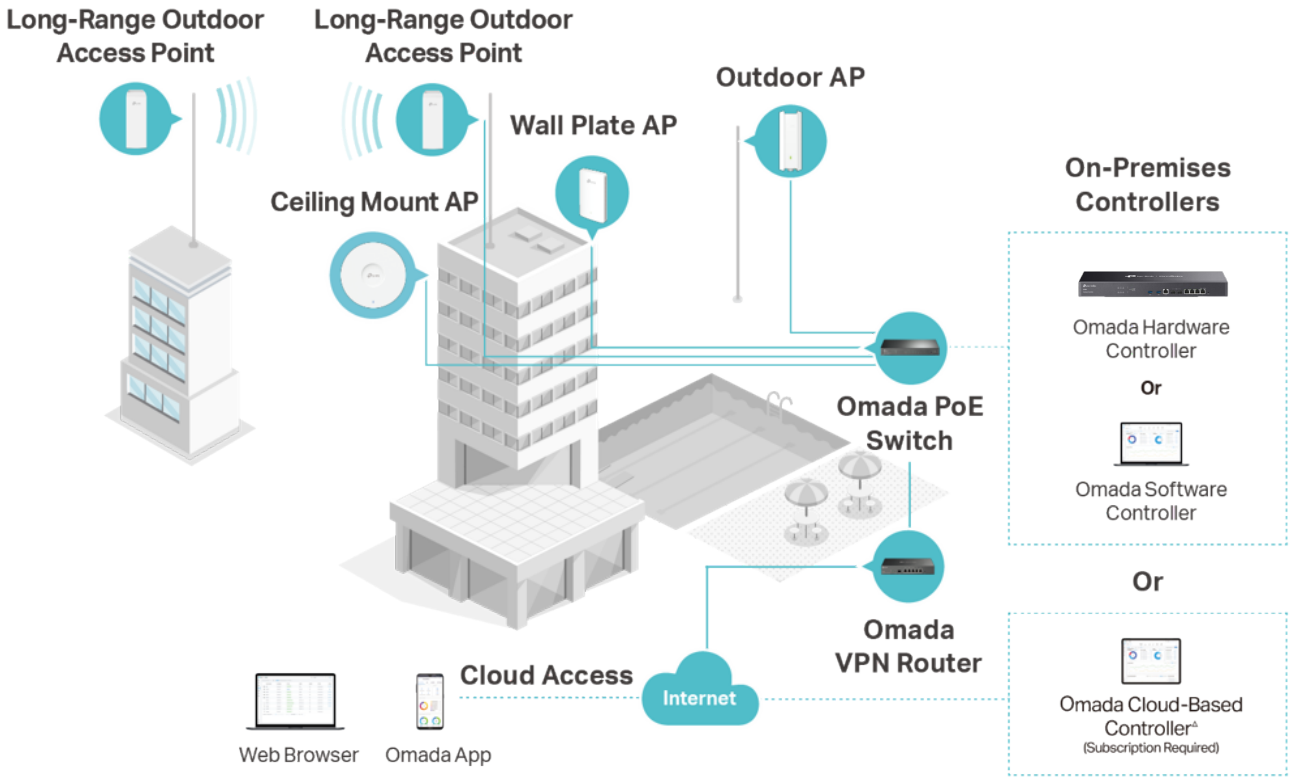
OC200

Highlights

- Centralized Management: Up to 100 Omada access points, 20 JetStream switches, and 10 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: A powerful chipset, durable metal casing, USB 2.0 port for auto backup, and two Fast Ethernet ports.
- Flexible Power Supply: 802.3af/at PoE or Micro USB (DC 5V/Minimum 1A) for flexible installation.
- 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		OC200 V1
Main Design	Processor	Dual-Core A53 @ 1.2 GHz
	Memory Information	1 GB DDR3
	Storage	1MB Nor Flash; 4 GB eMMC
	RJ45 Port	2 10/100 Mbps Ethernet Ports
	USB Port	1 USB 2.0 Port; 1 Micro-USB Port
	Interface	1 Kensington Lock; 1 Reset
Hardware Design	Power Supply	802.3af/at PoE; Micro-USB (DC 5 V/ Minimum 1 A)
	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)
	Dimensions	3.9 × 3.9 × 1.0 in (100 × 98 × 25 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		OC200 V1
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, JetStream Switch*, Omada Router*
	Management Scale**	≤ 10 Routers+ 20 Switches+100 EAPs
	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 °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

*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.