

# **Hardware Controller | Datasheet**

#### OC220

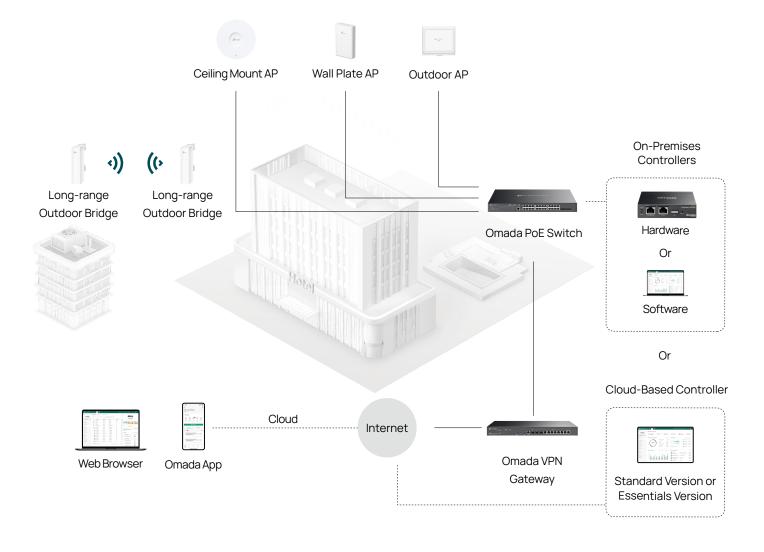


### **Highlights**

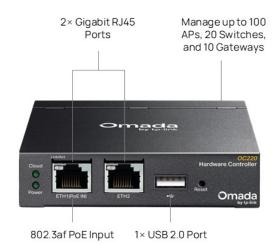
- Centralized Management: Supports up to 100 Omada access points, 10 Omada gateways, a maximum of 20 Omada switches, and a maximum of 2 certain DeltaStream GPON OLTs
- Free Cloud Access: Manage and monitor with the Omada app or Web UI from anywhere, anytime.
- On-Premises Management: Locally monitor and manage devices with the ultimate stability and complete privacy.
- **Hardware Design for Businesses:** A powerful chipset, durable metal casing, USB 2.0 port for data backup, and two Gigabit Ethernet ports.
- Flexible Deployment: 802.3af PoE or Micro USB (DC 5V/Minimum 1A) power supply and compact desktop or wall mount installation.

#### **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.



### **Product Images**







## **Specifications**

Model		OC220
	Processor	Quad-Core CA53 @ 2.0 GHz/Core
Main Design	Memory Information	2 GB DDR4
	Storage	4MB Nor Flash; 8 GB eMMC
	RJ45 Port	2 10/100/1000 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	9.5 W (powered by a PoE device, with USB 2.0 connected);
		3.3 W (powered via Micro-USB port, no USB 2.0 connected)
	Dimensions	3.9 × 3.9 × 1.0 in
		(100 × 98 × 25 mm)
	MTBF	1475648H @25°C
	14 10 00 14	733104H @40°C ,
	Multi-Site Management	√
	Multi-tenant Management (Role/Site/Device Privileges)	$\checkmark$
	(Role/Site/Device Privileges)  Cloud Access	√
	Migration	V
	(Site Migration/Controller Migration)	$\checkmark$
	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	10,000
		10,000
	Maximum Number of Local Users	
	Maximum Simultaneously Used VLANs	4,090 per site*
	Maximum Number of WLAN Groups	100
	Maximum Number of SSIDs	24 in each WLAN Group**
System Management		For each site:
	Maximum Number of ACL	Gateway: 64 Switch: 32***
		EAP: 16
	Maximum Number of Free Authentication/ Pre- Authentication Access	64 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	62 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	v √
	Open API	v √
	OpenAFI	ν

 $<sup>^{\</sup>star}$  The actual number of VLANs depends on the switch capacity and it may be less than 4090.



 $<sup>\</sup>ensuremath{^{**}}\xspace$  The maximum number depends on the connected device type.

 $<sup>^{\</sup>star\star\star}$  The actual number of ACL depends on the configuration and it may be less than 32.

<sup>\*\*\*\*</sup>The acutual number depens on the device capability.

Model		OC220
	Wired Network	V
	Wireless Network	V
	WLAN Optimization	V
	Network Security	,
	(ACL/URL Fitering/Attack Defense)	$\checkmark$
	Transmission	√
	(Routing/NAT/Session Limit/Bandwidth Control)	V
Network Management	VPN (IPSec/L2TP/PPTP/OpenVPN/WireGuard	$\checkmark$
	VPN)	·
	Portal	
	(Voucher/Local User/SMS/RADIUS/External	$\checkmark$
	Portal Server)	,
	802.1x	√
	RADIUS (Authentication/MAC Auth/Accounting)	√
	Management Device Type	Omada EAP, Omada Switch*, Omada Gateway*, DeltaStream GPON OLTs*
	Wanagement Device Type	100APs, 10 Gateways, up to 20 Switches, up to 2 DeltaStream GPON OLTs
		Note: The number of supported switches decreases by 5 for each DeltaStream GPON OLT
	Management Scale**	added. The DeltaStream GPON OLTs supported by the controller are DS-P7001-04 and DS-
		P7001-08.
	Device Automatic Discovery	V
	Batch configuration	V
Device Management	Online upgrade	V
	Reboot Schedule	V
	PoE Schedule	√
	WLAN Scheduler	√
	DDNS	√
	SNMP	√
	SSH	√
Monitoring	DPI	V
	IPS/IDS	√
	Dashboard (Custom Dashboard)	√
	Statistics	
	(Performance/Switch Statistics)	√
	Network topology	√
	Network Map	V
	Devices List (Custom Table)	V
	Clients List (Custom Table)	V
	Insights	
	(Known Clients/Past Connections/Past Portal	$\checkmark$
	Authorizations/Rogue APs)	
	Logs	√
	(Alerts/Events/Custom Notifications)	·
Others	Certifications	CE, FCC, RoHS
	Operating Temperature	-5 °C−50 °C (23 °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

 $<sup>{}^{\</sup>star}\!\mathsf{Some}\ \mathsf{models}\ \mathsf{are}\ \mathsf{manageable}, \mathsf{please}\ \mathsf{refer}\ \mathsf{to}\ \mathsf{the}\ \mathsf{TP-Link}\ \mathsf{official}\ \mathsf{website}\ \mathsf{for}\ \mathsf{more}\ \mathsf{information}.$ 

 $<sup>\</sup>hbox{\ensuremath{}^{**}} The \ actual \ management \ scale \ will \ vary \ as \ a \ result \ of \ network \ environment, \ bandwidth \ and \ different \ settings.$