Hardware Controller | Datasheet

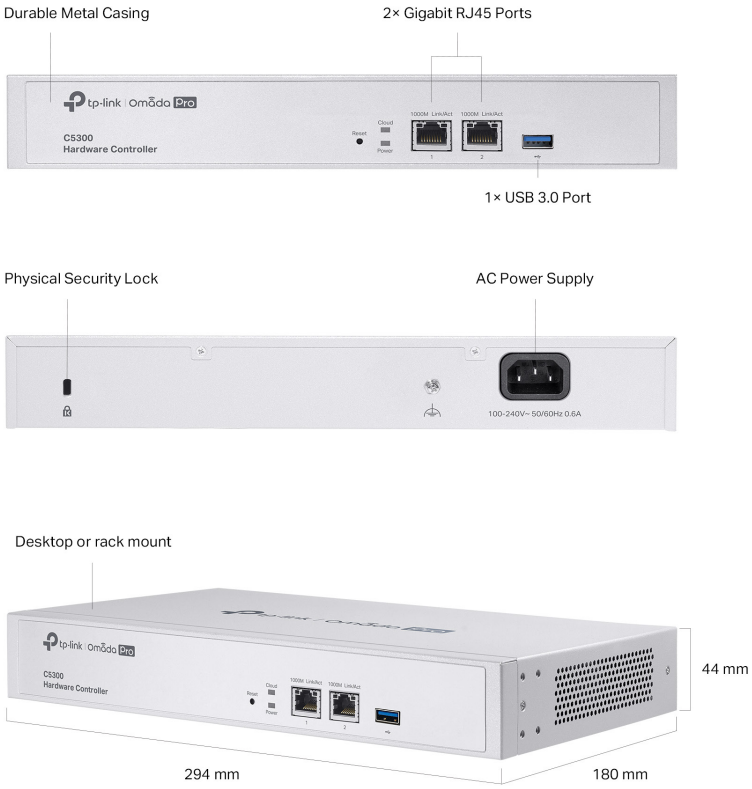
C5300

Omada Pro Hardware Controller

Highlights

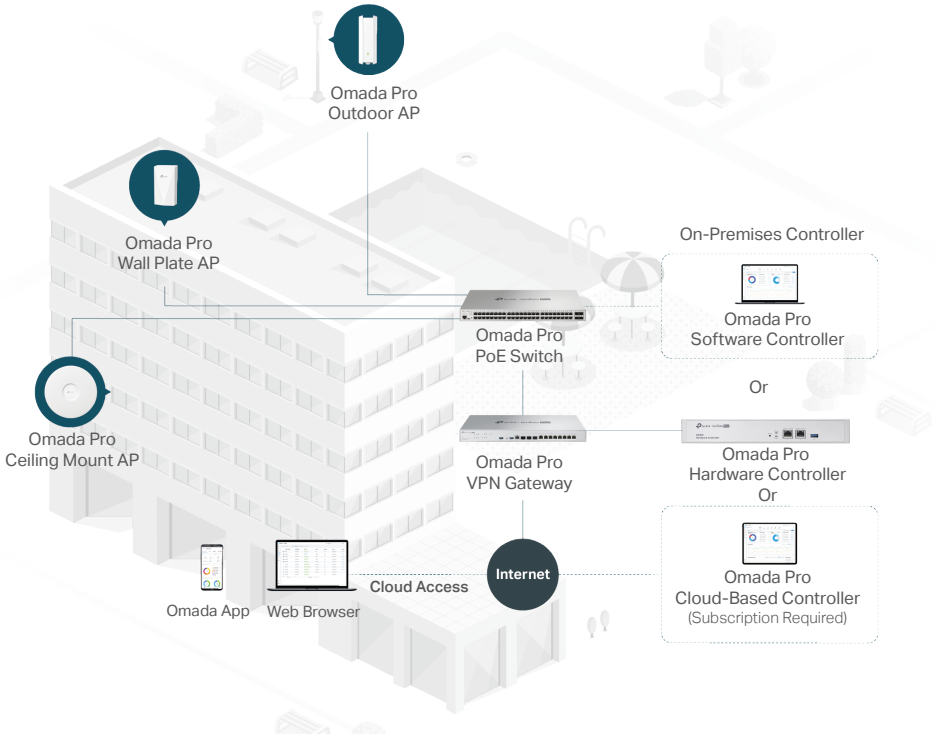
- High-Performance Centralized Management: Up to 100 Omada Pro APs, 20 Omada Pro switches, and 10 Omada Pro gateways.*
- Industry-Leading Hardware Design: 2× Gigabit RJ45 Ports and 1× USB 3.0 Ports
- Free cloud access with the Omada app or Web UI from anywhere, anytime.
- On-premises manages to locally monitor and manage devices.
- The easy-to-use dashboard and real-time network topology make network monitoring easy.
- Batch and multi-site management bene it network maintenance.
- Capable of operating and managing wireless communication distribution equipment in compliance with IEEE 802.11n, ac, ax and be standards.

Product Pictures



Omada Pro Solution

Omada Pro is TP-Link's enterprise-grade product line designed to meet the high-capacity, security, and management needs of various industries. It provides one-stop professional cloud solutions, integrating a complete set of devices such as access points, switches, and gateways. It's ideal for diverse vertical industries including multi-dwelling units (MDUs), K-12 education, hospitality, public works, catering, manufacturing, malls, and more.



Specifications

Model		C5300
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	10,000
	Maximum Number of Local Users	10,000
	Maximum Number of WLAN Groups	100
	Maximum Number of SSIDs	8 for each band, 24 in total
	Maximum Number of ACL	Gateway: 64 Switch: 32* AP: 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 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 Static Routing	64 in each site
	Maximum Number of Policy Routing	64 in each site
	Backup & Restore	√
	Auto Backup	√
	Customized UI Interface	√
	SAML/SSO	√

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

Model		C5300
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/External Portal Server)	√
	802.1x	√
	RADIUS (Authentication/MAC Auth/Accounting)	√
	PPSK	√
	WIDS/WIPS	√
	IDS/IPS	√
	Automated Radio Frequency Deployment (Channel, Power, Bandwidth, Frequency Band)	√
Device Management	Management Scale*	100 APs, 20 Switches, 10 Gateways
	Management Device Type	Omada Pro AP, Omada Pro Switch, Omada Pro Gateway
	Device Automatic Discovery	√
	Batch Configuration	√
	Online Upgrade	√
	Reboot Schedule	√
	PoE Schedule	√
	WLAN Schedule	√
	DDNS	√
	SNMP	√
	SSH	√
	Web-Based GUI	√
	WEBHOOK	√
	Open API	√
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)	√
	Audit Log	√
Others	Operating Temperature	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

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