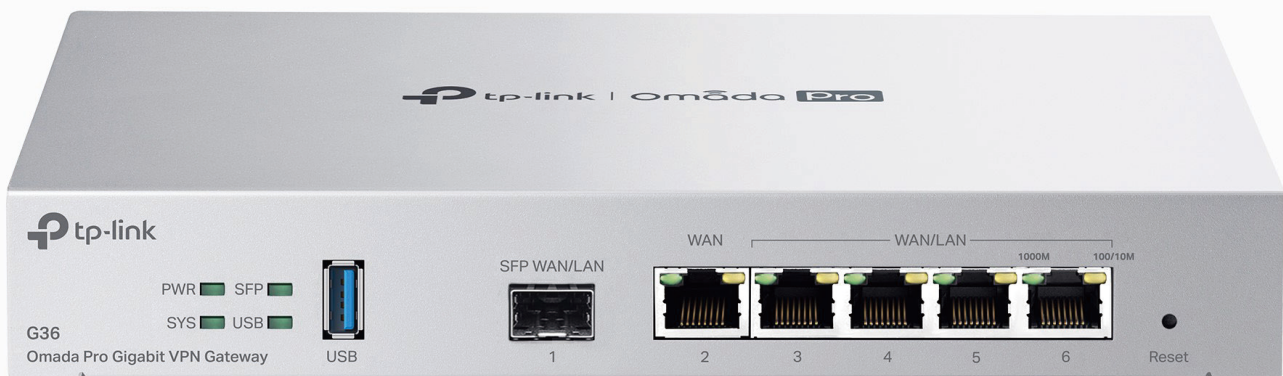# Gateway | Datasheet

G36
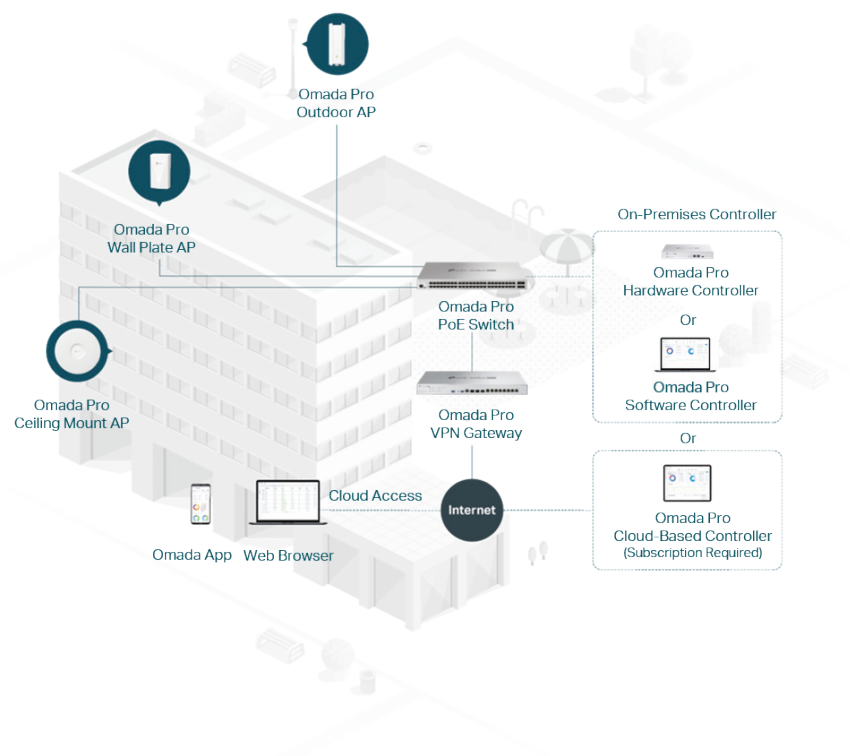Omada Pro Gigabit VPN Gateway

Highlights

- **Multiple Gigabit Ports**: 1 gigabit SFP and 5 gigabit RJ45 ports provide high-speed wired connectivity.

- **Up to 5 WAN Ports**: Gigabit SFP WAN port and gigabit RJ45 WAN port optimize bandwidth usage.

- **Highly Secure VPN△**: Supports multiple VPN protocols including SSL/ Wireguard/ OpenVPN/ GRE VPN/ IPSec/ PPTP/ L2TP/ L2TP over IPSec, helping users to establish VPN connections more flexibly.

- **Abundant Security Features**: IDS/IPS**, DPI**, advanced firewall policies, DoS defense, IP/ MAC/ URL filtering, and more features protect your network and data.

- **Integrated into Omada Pro**: Zero-Touch Provisioning (ZTP)*, Intelligent Anomaly Detection and Analysis, and centralized cloud management with cloud access.

- **Centralized Management**: Cloud access and Omada App for ultra convenience and easy management.

- **Industrial Enclosure Design**: Professional 4 kV lightning protection keeps your investments as safe as possible.

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), higher education, hospitality, public works, catering, manufacturing, malls, and more.

Specifications

Model	G36
Product Description	Omada Pro Gigabit VPN Gateway
Hardware Standards and Protocols	IEEE 802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE 802.3x, IEEE 802.1q, TCP/IP, DHCP, ICMP, NAT, PPPoE, NTP, HTTP, HTTPS, DNS, IPSec, PPTP, L2TP, OpenVPN, WireGuard VPN, GRE VPN, SNMP
Interface	1 Gigabit SFP WAN/LAN Port 1 Gigabit WAN port 4 Gigabit LAN/WAN ports
USB	1 USB3.0 (supports USB LTE dongle and USB Storage)
Network Media	10BASE-T: UTP category 3, 4, 5 cable (Max 100 m) EIA/TIA-568 100Ω STP (Max 100 m) 100BASE-TX: UTP category 5, 5e cable (Max 100 m) EIA/TIA-568 100Ω STP (Max 100 m) 1000BASE-T: UTP category 5, 5e, 6 cable (Max 100 m)
Button	Reset button
Power Supply	12VDC / 1A Power Adapter
Flash	128 MB NAND
DRAM	512 MB DDR4
LED	PWR, SYS, SFP, USB, WAN (1000M Link/Act, 100/10M Link/Act), WAN/LAN (1000M Link/Act, 100/10M Link/Act)
Max Power Consumption	7.5 W (with USB 3.0 connected) 4.5 W (without USB 3.0 connected)
Surge Protection	4 kV surge protection
Mounting	Desktop / Rack / Wall-mounting
Dimensions (W x D x H)	8.9 × 5.2 × 1.4 in (226 × 131 × 35 mm)
MTBF	981089h (Without adapter) @25°C 557441h (Without adapter) @40°C
SDN Support Omada Pro Controller	Automatic Device Discovery Intelligent Network Monitoring Abnormal Event Warnings Unified Configuration Reboot Schedule Captive Portal Configuration
Omada App	

Model		G36
Performance[1]	Concurrent Session	150,000
	New Sessions / Second	5,300
	Static IP NAT Throughput (Upload / Download)	945.3 Mbps / 940.5 Mbps
	DHCP NAT Throughput (Upload / Download)	939.6 Mbps / 940.9 Mbps
	PPPoE NAT Throughput (Upload / Download)	943.6 Mbps / 940.9 Mbps
	L2TP NAT Throughput (Upload / Download)	880.1 Mbps / 859.0 Mbps
	PPTP NAT Throughput (Upload / Download)	855.0 Mbps / 907.2 Mbps
	66 Byte Packet forwarding rate (Upload / Download)	1,453,489 pps / 1,453,488 pps
	1,518 Byte Packet forwarding rate (Upload / Download)	81,279 pps / 81,275 pps
	IPSec VPN Throughput	ESP-SHA1-AES256: 617.1 Mbps ESP-SHA256-AES256: 592.8 Mbps ESP-SHA384-AES256: 592.4 Mbps ESP-SHA512-AES256: 604.5 Mbps
	GRE	Unencrypted: 611.9 Mbps Encrypted: 325.0 Mbps
	WireGuard VPN	341.3 Mbps
	SSL VPN	131.6 Mbps
	OpenVPN	139.1 Mbps
	L2TP VPN Throughput	Unencrypted: 977.4 Mbps Encrypted: 334.6 Mbps
	PPTP VPN Throughput	Unencrypted: 1064.1 Mbps Encrypted: 206.8 Mbps
Basic Functions	WAN Connection Type	Static IP Dynamic IP PPPoE (supports MRU Configuration) PPTP L2TP
	DHCP	DHCP Server DHCPv6 PD Server (only in Standalone Mode) DHCP Options Customization DHCP Address Reservation Multi-IP Interfaces Multi-Net DHCP
	MAC Clone	Modify WAN/LAN MAC Address[2]
	IPTV	IGMP v2/v3 Proxy, Custom Mode, Bridge Mode
	IPv6	StaticIP / SLAAC / DHCPv6 / PPPoE / 6to4Tunnel / PassThrough / Non-Address mode
	Stateful ACL	√

1. Rated specifications are based on test results using a specific software version. Device performance may vary as a result of the actual scenario.
2. LAN MAC Address can be modified only in Standalone Mode.

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Model		G36
Basic Functions	mDNS Repeater	√
	Quality of Service	√
	Bridge VLAN	√
	DNS Queries[1]	√
	Wildcard FQDN[1]	√
	VLAN	802.1Q VLAN
	Wildcard FQDN	√
Transmission	Load Balance	Intelligent Load Balance Application Optimized Routing Link Backup (Timing, Failover) Online Detection
	NAT	One-to-One NAT Multi-Net NAT Virtual Server Port Triggering[2] NAT-DMZ FTP / H.323 / SIP / IPSec / PPTP ALG UPnP
	Routing	Static Routing Policy Routing RIP[3] OSPF[3]
	Session Limit	IP-based Session Limit
	Bandwidth Control	IP-based Bandwidth Control
VPN	IPSec VPN	100 IPSec VPN Tunnels LAN-to-LAN, Client-to-LAN Main, Aggressive Negotiation Mode DES, 3DES, AES128, AES192, AES256 Encryption Algorithm IPsec Failover IKE v1/v2 MD5, SHA1, SHA2-384 and SHA2-512 Authentication Algorithm NAT Traversal (NAT-T) Dead Peer Detection (DPD) Perfect Forward Secrecy (PFS)
	PPTP VPN	PPTP VPN Server PPTP VPN Client (10)[4] 50 Tunnels PPTP with MPPE Encryption
	L2TP VPN	L2TP VPN Server L2TP VPN Client (10)[4] 50 Tunnels L2TP over IPSec
	GRE	Only in Standalone Mode
	WireGuard VPN	√
	SSL VPN	50 Tunnels
	OpenVPN	OpenVPN Server / OpenVPN Client (5)[4] / 55 OpenVPN Tunnels / "Certificate + Account" Mode / Full Mode

1. DNS Queries and Wildcard FQDN supported only in Controller Mode
2. Port Triggering is supported only in Standalone Mode.
3. RIP and OSPF are supported only in Standalone Mode.
4. For PPTP VPN and L2TP VPN, G36 can connect with up to 10 VPN servers. For OpenVPN, G36 can connect with up to 5 VPN servers.

Model		G36
Security	Attack Defense	TCP / UDP / ICMP Flood Defense Block TCP Scan (Stealth FIN / Xmas/Null) Block Ping from WAN
	Filtering	Web Group Filtering[1] URL Filtering Web Security[1]
	DNS Proxy	DNSSEC, DoH, and DoT
	ARP Inspection	Sending GARP Packets ARP Scanning[2] IP-MAC Binding
	DPI[3]	Application Control, Traffic Monitor
	IDS/IPS[3]	Intrusion detection systems (IDS) and intrusion prevention systems (IPS)
	Access Control	Source/Destination IP Based Access Control
Authentication	Web Authentication	No Authentication Simple Password[4] Hotspot (Local User / Voucher[4] / SMS[4] / Radius[4]) External Radius Server External Portal Server[4] LDAP
Management	Service	Dynamic DNS (Dyndns, No-IP, Peanuthull, Comexe, DDNS Customization)
	Maintenance	Web Management Interface Remote Management Export & Import Configuration SNMP v1/v2c/v3 Diagnostics (Ping & Traceroute) NTP Synchronize[5] Port Mirroring CLI (only in Standalone Mode) Syslog Support Intelligent anomaly detection[6] Gateway Online Detection[6] Remote Packet Capture[6]
Others	Certification	CE, FCC, RoHS
	Package Contents	G36, Power Adapter, Quick Installation Guide
	System Requirements	Microsoft Windows 98SE, NT, 2000, XP, Vista™ or Windows 7/8/8.1/10 MAC OS, NetWare, UNIX or Linux
	Environment	Operating Temperature: 0 ℃ to 40 ℃ (32 ℉ to 104 ℉) Storage Temperature: -40 ℃ to 70 ℃ (-40 ℉ to 158 ℉) Operating Humidity: 10% to 90% non-condensing Storage Humidity: 5% to 90% non-condensing

1. Web Group Filtering and Web Security are supported only in Standalone Mode.
2. ARP Scanning is supported only in Standalone Mode.
3. DPI and IDS/IPS are supported only in Controller Mode.
4. The following web authentication methods are supported only in Controller Mode: Simple Password, Voucher, SMS, Radius, and External Portal Server.
5. NTP Synchronize is supported only in Standalone Mode.
6. Intelligent anomaly detection, Gateway Online Detection and Remote Packet Capture are supported only in Controller Mode.

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Ordering Information

Host Gateway

Model	Description
G36	Omada Pro Gigabit VPN Gateway

SFP Modules

Model	Description
TL-SM311LS	Gigabit SFP module, Single-mode, LC interface, Up to 20 km distance
TL-SM311LM	Gigabit SFP module, Multi-mode, LC interface, Up to 550 m distance
TL-SM321A	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX: 1550 nm/RX: 1310 nm, 20 km
TL-SM321A-2	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX: 1550 nm/RX: 1310 nm, 2 km
TL-SM321B	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX: 1310 nm/RX: 1550 nm, 20 km
TL-SM321B-2	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX: 1310 nm/RX: 1550 nm, 2 km

RJ45 SFP Modules

Model	Description
TL-SM331T	1000BASE-T RJ45 SFP Module

△For PPTP VPN and L2TP VPN, G36 can connect with up to 10 VPN servers. For OpenVPN, G36 can connect with up to 5 VPN servers.
**These functions require the use of an Omada Pro SDN controller.
*Zero-Touch Provisioning requires the use of Omada Pro Cloud-Based Controller.