

Omada Gigabit VPN Router

MODEL: ER7206 (TL-ER7206)



Highlights

- 64-bit dedicated dual-core processor and 512MB DDR3 high-speed memory for outstanding performance
- Equipped with 1 Gigabit SFP WAN port, 1 Gigabit RJ45 WAN port, 2 Gigabit RJ45 WAN/LAN ports and 2 Gigabit LAN ports
- Supports multiple VPN protocols including OpenVPN/ IPSec/ PPTP/ L2TP/ L2TP over IPSec, helping users to establish VPN connections more flexibly
- Supports up to 100 IPsec VPN tunnels with VPN engine
- Captive portal provides a convenient method for guest authentication
- Abundant features including load balance, bandwidth control and access control
- Professional 4 kV lightning protection keeps your investments as safe as possible

Omada Solution



Hospitality

High Quality and Full Coverage Wi-Fi



Education

High-Density Wi-Fi



Retail

Social Marketing for O2O



Office

Wireless and Wired Connections

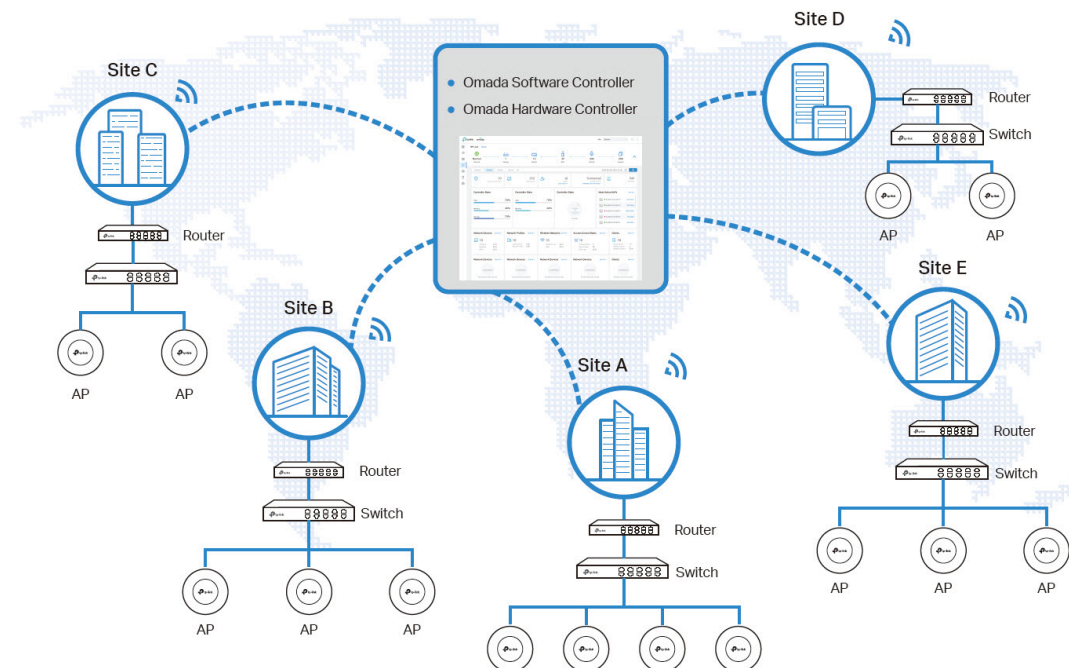


Catering

Full Wi-Fi Coverage in High-Density Environment

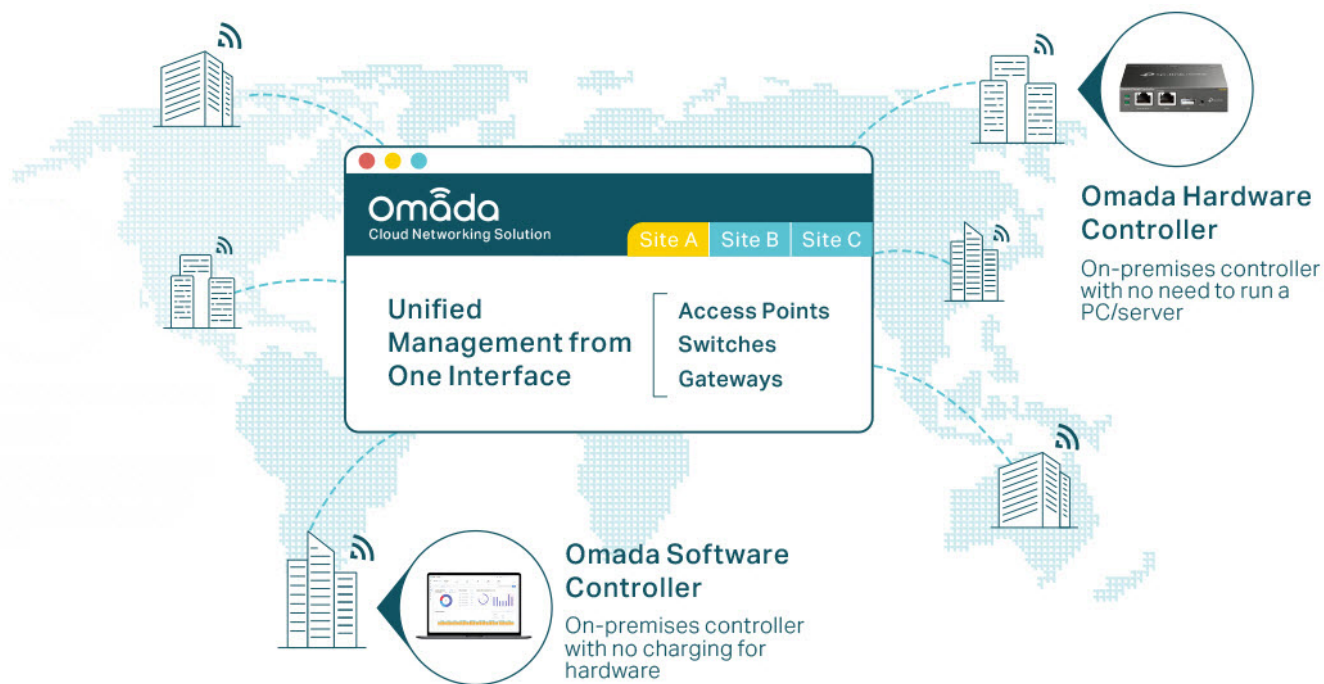
Software Defined Networking (SDN) with Cloud Access

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

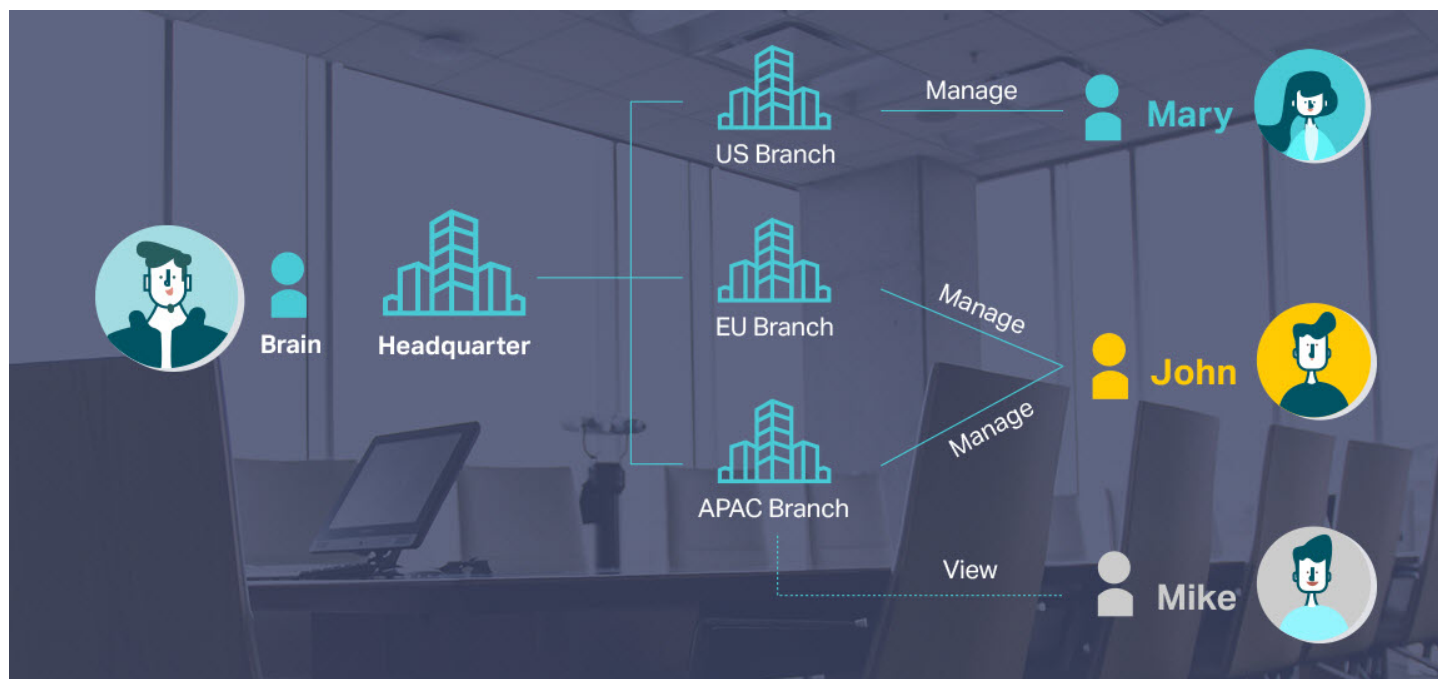
100% centralized cloud management of the whole network from different sites—all controlled from a single interface anywhere, anytime.



- ✓ No additional training needed
- ✓ Unlimited scalability
- ✓ Batch management
- ✓ Devices still work even when not connected to the Cloud

Assign Different Management Roles

Multi-user 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.

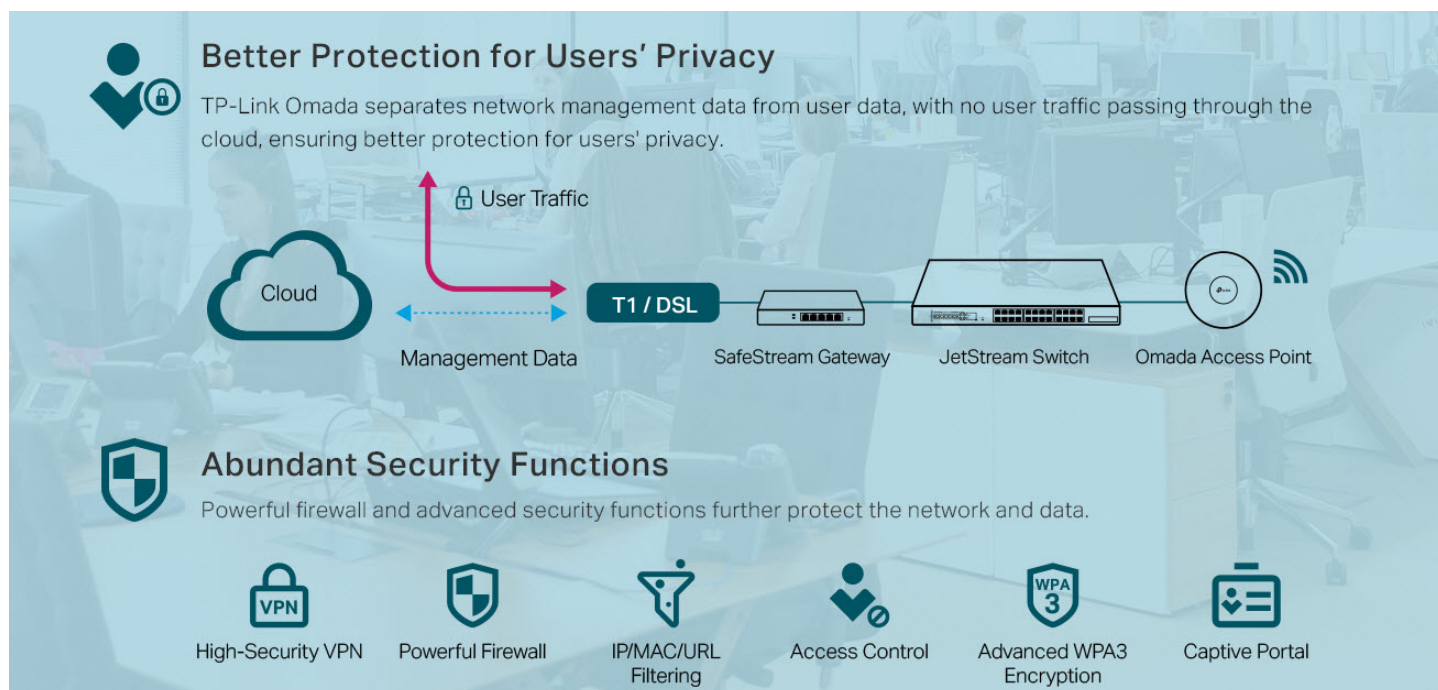


Easy and Intelligent Network Monitoring


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



Specifications

Model		ER7206 (TL-ER7206)
Product Picture		
Product Description		Omada Gigabit VPN Router
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, SNMP
	Interface	1 Gigabit SFP WAN Port 1 Gigabit WAN port 2 Gigabit LAN/WAN ports 2 Gigabit LAN ports
	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	100–240 VAC, 50/60 Hz
	Flash	4MB SPI + 128 MB NAND
	DRAM	512 MB
	LED	PWR, SYS, SFP WAN, WAN (Speed, Link/Act), LAN (Speed, Link/Act)
	Max Power Consumption	8.95 W
	Surge Protection	4 kV surge protection
	Dimensions (W x D x H)	8.9 × 5.2 × 1.4 in (226 × 131 × 35 mm)
SDN Support	Hardware Controller (OC200/OC300)	Automatic Device Discovery Intelligent Network Monitoring Abnormal Event Warnings
	Software Controller	Unified Configuration Reboot Schedule Captive Portal Configuration

Model		ER7206 (TL-ER7206)
Performance ¹	Concurrent Session	150,000
	New Sessions /Second	4,500
	IPS Throughput	TCP: 200 Mbps UDP: 150 Mbps
	DPI Throughput	TCP: 931 Mbps UDP: 902 Mbps
	Static IP NAT Throughput (Upload / Download)	930.5 Mbps / 937.3 Mbps
	DHCP NAT Throughput (Upload / Download)	932.5 Mbps / 936.7 Mbps
	PPPoE NAT Throughput (Upload / Download)	913.2 Mbps / 937.4 Mbps
	L2TP NAT Throughput (Upload / Download)	876.4 Mbps / 917.7 Mbps
	PPTP NAT Throughput (Upload / Download)	859.7 Mbps / 915.5 Mbps
	66 Byte Packet forwarding rate (Upload / Download)	268,895 pps / 268,895 pps
	1,518 Byte Packet forwarding rate (Upload / Download)	81,274 pps / 81,274 pps
	IPSec VPN Throughput (AES128)	217.0 Mbps
	GRE	Unencrypted: 703.2 Mbps Encrypted: 305.9 Mbps
	WireGuard VPN	177.2 Mbps
	OpenVPN	34.2 Mbps
	L2TP VPN Throughput	Unencrypted: 1461.5 Mbps Encrypted: 248.5 Mbps
	PPTP VPN Throughput	Unencrypted: 1645.5 Mbps Encrypted: 139.6 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	√
	mDNS Repeater	√
	Quality of Service	√
	Bridge VLAN	√

1. Rated specifications are based on test results using software version ER7206(UN)_V1_1.3.0 Build 20230322. Device performance may vary as a result of the actual scenario.
2. LAN MAC Address can be modified only in Standalone Mode.

Model		ER7206 (TL-ER7206)
Basic Functions	VLAN	802.1Q VLAN
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 ¹ NAT-DMZ FTP/H.323/SIP/IPSec/PPTP ALG UPnP
	Routing	Static Routing Policy Routing RIP ² OSPF ²
	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) ³ 50 Tunnels PPTP with MPPE Encryption
	L2TP VPN	L2TP VPN Server L2TP VPN Client (10) ³ 50 Tunnels L2TP over IPSec
	GRE	Only in Standalone Mode
	WireGuard VPN	√
	OpenVPN	OpenVPN Server OpenVPN Client (10) ³ 50 OpenVPN Tunnels "Certificate + Account" Mode Full Mode

1. Port Triggering is supported only in Standalone Mode.
2. RIP and OSPF are supported only in Standalone Mode.
3. ER7206 can work as a VPN client and can connect with up to 10 VPN servers.

Model		ER7206 (TL-ER7206)
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 ² ARP Scanning ² IP-MAC Binding
	Access Control	Source/Destination IP Based Access Control
Authentication	Web Authentication	No Authentication Simple Password ³ Hotspot (Local User / Voucher ³ / SMS ³ / Radius ³) External Radius Sever External Portal Sever ³ LDAP ⁴
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) ⁵ NTP Synchronize ⁵ Port Mirroring CLI (only in Standalone Mode) Syslog Support
Others	Certification	CE, FCC, RoHS
	Package Contents	ER7206 (TL-ER7206), Power Cord, 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 °C to 40 °C (32 °F to 104 °F) Storage Temperature: -40 °C to 70 °C (-40 °F to 158 °F) 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. Sending GARP Packets and ARP Scanning are supported only in Standalone Mode.
3. The following web authentication methods are supported only in Controller Mode: Simple Password, Voucher, SMS, Radius, and External Portal Sever.
4. LDAP is supported only in Standalone Mode.
5. Diagnostics (Ping & Traceroute) and NTP Synchronize are supported only in Standalone Mode.

Ordering Information

Host Router

Model	Description
ER7206 (TL-ER7206)	Omada Gigabit VPN Router

SFP Modules

Model	Description
TL-SM311LS	Gigabit SFP module, Single-mode, LC interface, Up to 20km distance
TL-SM311LM	Gigabit SFP module, Multi-mode, LC interface, Up to 550m 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

* Some models featured in this guide may be unavailable in your country or region. Visit TP-Link website for local sales information: www.tp-link.com.

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