

# Omada Multi-Gigabit VPN Router

MODEL: ER707-M2



## Highlights

- Dedicated Dual-core CPU for outstanding performance
- 1GB DDR4 high-speed memory for high concurrent connections
- Equipped with 1× 2.5G RJ45 WAN Port, 1× 2.5G RJ45 WAN/LAN Port, 1× Gigabit SFP WAN/LAN Port, 4× Gigabit RJ45 WAN/LAN Ports, 1× USB2.0 (Storage & LTE) Port
- Supports multiple VPN protocols including SSL VPN/ GRE VPN/ OpenVPN/ IPSec/ PPTP/ L2TP/ L2TP over IPSec, helping users to establish VPN connections more flexibly
- Supports up to 500,000 concurrent connections
- Abundant features including load balance, bandwidth control and access control
- Professional 4 kV lightning protection keeps your investments as safe as possible

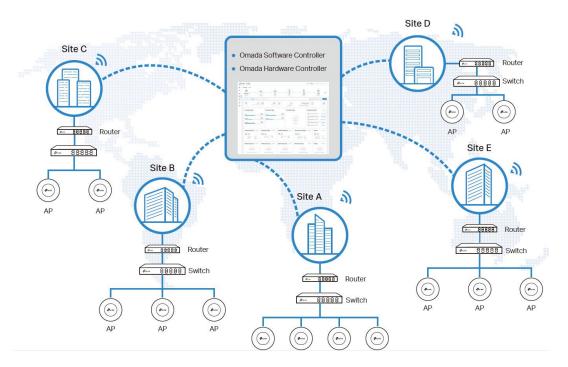


### **Omada Solution**



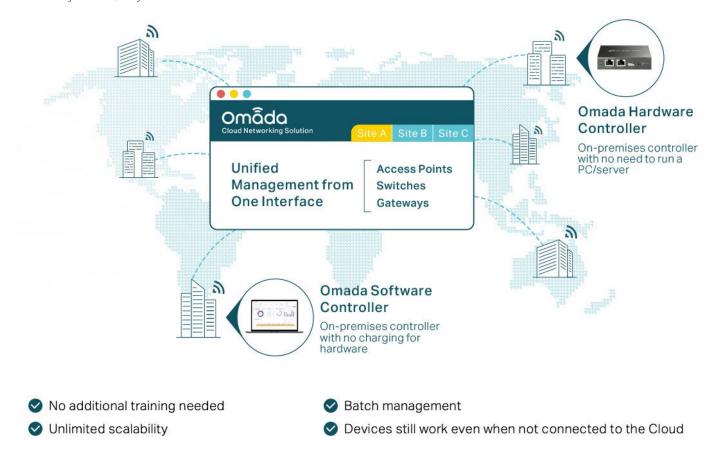
#### Software Defined Networking (SDN) with Cloud Access

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.



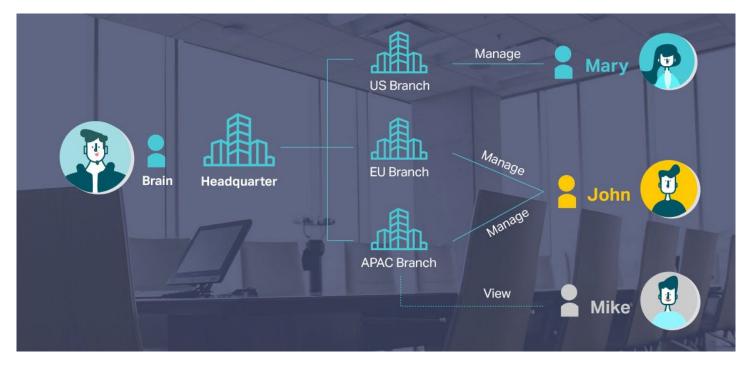
#### Hassle-Free Centralized Cloud Management

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



#### Assign Different Management Roles

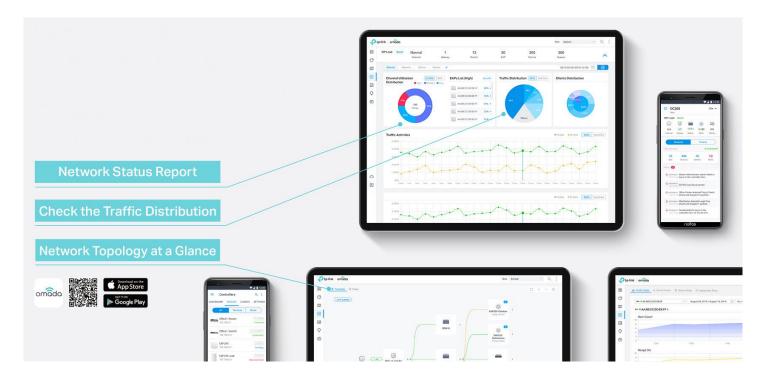
Multi-user privilege assignment is available to increase management efficiency and security. Multi-person management, multi-level permissions, and the ability to add admins as needed, enable flexible network operation and maintenance.



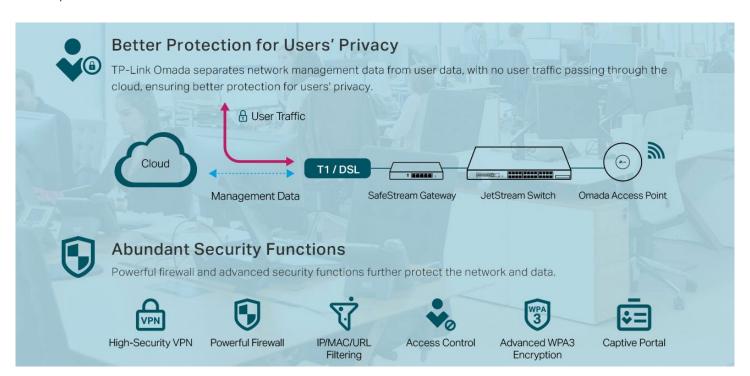


#### Easy and Intelligent Network Monitoring

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		ER707-M2
Product Picture		<b>₽</b> 10.000
Product Descriptio	n	Omada Multi-Gigabit VPN Router
	CPU	Dual-core ARMv8
	Interface	1× 2.5G RJ45 WAN Port, 1× 2.5G RJ45 WAN/LAN Port, 1× Gigabit SFP WAN/LAN Port, 4× Gigabit RJ45 WAN/LAN Ports
	USB	1 USB2.0 (Supports LTE backup with LTE dongle, and USB Storage)
General	Button	Reset button
	Power Supply	12V / 1.5A Adapter
	Flash	128 MB NAND
	DRAM	1 GB DDR4
	Surge Protection	4 kV surge protection
	Max Power Consumption	14.2 W (with USB2.0 connected) 7.1 W (without USB2.0 connected)
	Dimensions (WxDxH)	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 Unified Configuration Reboot Schedule Captive Portal Configuration ZTP (Zero-Touch Provisioning) <sup>1</sup>
	Software Controller	
	Cloud-Based Controller	

 $1. \quad \hbox{Zero-Touch Provisioning is supported only when using Omada Cloud-Based Controller.}$ 



Model		ER707-M2
	Concurrent Session	500,000
	New Sessions /Second	4,200
	Static IP NAT Throughput (Upload / Download)	2364.45 Mbps / 2343.28 Mbps
	DHCP NAT Throughput (Upload / Download)	2364.24 Mbps / 2326.21 Mbps
	PPPoE NAT Throughput (Upload / Download)	2350.93 Mbps / 2125.83 Mbps
	L2TP NAT Throughput (Upload / Download)	1249.04 Mbps / 831.12 Mbps
Performance	PPTP NAT Throughput (Upload / Download)	1169.23 Mbps / 1175.52 Mbps
	66 Byte Packet forwarding rate (Upload / Download)	1832.69 Mbps / 1741.84 Mbps
	1,518 Byte Packet forwarding rate (Upload / Download)	2461.18 Mbps / 2457.32 Mbps
	SSL VPN Throughput	142.99 Mbps
	GRE VPN <sup>1</sup> Throughput	355.28 Mbps
	IPSec VPN Throughput	ESP-MD5-AES256: 537.12 Mbps ESP-SHA1-AES256: 754.65 Mbps
	L2TP VPN Throughput	Unencrypted: 1442.65 Mbps Encrypted: 346.43 Mbps
	OpenVPN Throughput	154.91 Mbps
Basic Functions	WAN Connection Type	IPv4_Static IP IPv4_Dynamic IP IPv4_PPPOE IPv4_L2TP IPv4_PPTP IPv6_PPP IPv6_DHCPv6 IPv6_Static IP IPv6_6in4 IPv6_Pass-Through Mobile Broadband: 4G/3G modem for backup via USB port
	DHCP	DHCP Server/Client DHCP Address Reservation Multi-IP Interfaces Multi-Net DHCP
	MAC Clone	Modify WAN/LAN MAC Address <sup>2</sup>
	IPTV	IGMP v2/v3 Proxy
	IPv6	WAN Connection
	VLAN	802.1Q VLAN

- $1. \quad \mathsf{GRE} \, \mathsf{VPN} \, \mathsf{is} \, \mathsf{supported} \, \mathsf{only} \, \mathsf{in} \, \mathsf{Standalone} \, \mathsf{Mode}.$
- 2. LAN MAC Address can be modified only in Standalone Mode.



Model		ER707-M2
Transmission	Load Balance	Intelligent Load Balance Application Optimized Routing Link Backup (Timing <sup>1</sup> , Failover) Online Detection
	NAT	One-to-One NAT  Multi-Net NAT  Virtual Server  Port Triggering <sup>2</sup> NAT-DMZ  FTP/H.323/SIP/IPSec/PPTP ALG  UPnP
	Routing	Static Routing Policy Routing
	Session Limit	IP-based Session Limit
	Bandwidth Control	IP/Port-based Bandwidth Control Guarantee & Limited Bandwidth
VPN	SSL VPN	SSL VPN Server 60 SSL VPN Tunnels
	IPSec VPN	100 IPSec VPN Tunnels LAN-to-LAN, Client-to-LAN Main, Aggressive Negotiation Mode DES, 3DES, SHA1, AES128, AES192, AES256 Encryption Algorithm IKE v1/v2 MD5, SHA1 Authentication Algorithm NAT Traversal (NAT-T) Dead Peer Detection (DPD) Perfect Forward Secrecy (PFS)
	PPTP VPN	PPTP VPN Server PPTP VPN Client (12) <sup>3</sup> 60 Tunnels (Shared with L2TP) PPTP with MPPE Encryption
	L2TP VPN	L2TP VPN Server L2TP VPN Client (12) <sup>3</sup> 60 Tunnels (Shared with PPTP) L2TP over IPSec
	OpenVPN	OpenVPN Server OpenVPN Client (6) <sup>3</sup> 66 OpenVPN Tunnels

- 1. The Timing mode in Link Backup is supported only in Standalone Mode.
- 2. Port Triggering is supported only in Standalone Mode.
- 3. ER707-M2 can work as a VPN client and can connect with up to 12 PPTP/L2TP VPN servers and 6 OpenVPN servers.



Model		ER707-M2
Security	Attack Defense	TCP/UDP/ICMP Flood Defense Block TCP Scan (Stealth FIN/Xmas/Null) Block Ping from WAN
	Filtering	Web Group Filtering <sup>1</sup> URL Filtering Web Security <sup>1</sup>
	ARP Inspection	Sending GARP Packets  ARP Scanning <sup>2</sup> IP-MAC Binding
	Access Control	Source/Destination IP Based Access Control
Authentication	Web Authentication	No Authentication Simple Password <sup>3</sup> Hotspot (Local User / Voucher <sup>3</sup> / SMS <sup>3</sup> / Radius <sup>3</sup> ) External Radius Sever External Portal Sever <sup>3</sup> Facebook <sup>3</sup>
	Service	Dynamic DNS (Dyndns, No-IP, Peanuthull, Comexe)
Management	Maintenance	Web Management Interface Remote Management Export & Import Configuration SNMP v1/v2c/v3 Diagnostics (Ping & Traceroute) <sup>4</sup> NTP Synchronize <sup>4</sup> Syslog Support
	Certification	CE, FCC, RoHS
Others	Package Contents	ER707-M2, 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 °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. ARP Scanning is supported only in Standalone Mode.
- 3. The following web authentication methods are supported only in Controller Mode: Simple Password, Voucher, SMS, Radius, External Portal Sever, and Facebook.
- 4. Diagnostics (Ping & Traceroute) and NTP Synchronize are supported only in Standalone Mode.



# Ordering Information

Host Router	
Model	Description
ER707-M2	Omada Multi-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

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

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