ComX Computers
Product Specification Sheet

TP Fusion 2.5G PoE

TP-Link Omada Fusion 2.5G PoE Gateway

Product Overview

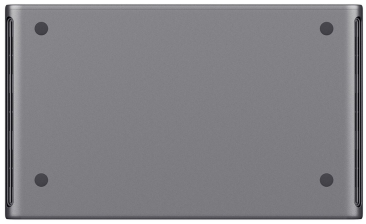
TP-Link Omada Fusion 2.5G PoE Gateway; Quad-core CPU; 2 GB DDR4; 9 x 2.5G RJ45 ports; 1 x dedicated WAN; 8 x configurable LAN/WAN; 8 x PoE+ ports; 110W PoE budget; Multi-WAN load balancing; Automatic failover; Integrated Omada controller; VPN and Full Mesh SD-WAN; 3.69-inch touchscreen; 226 x 135 x 31.5 mm; 728 g











Specifications

About this product

The TP-Link Omada Fusion 2.5G PoE Gateway is a powerful business networking solution that combines a high-performance multi-WAN router, Omada network controller and 2.5GbE PoE+ connectivity in one device. Featuring 9 x 2.5G RJ45 ports, 8 x PoE+ ports with a 110W total power budget, advanced firewall protection, VPN connectivity, load balancing and centralised cloud management, it provides a scalable network solution for businesses, offices and multi-site deployments. With an integrated 3.69-inch touchscreen and Bluetooth-assisted setup, network installation and management are simplified. Buy the TP-Link Omada Fusion 2.5G PoE Gateway online in South Africa for professional network management and high-speed business connectivity.

Overview Summary

TP-Link Omada Fusion 2.5G PoE Gateway

The TP-Link Omada Fusion 2.5G PoE Gateway is an integrated business networking gateway designed to provide high-speed connectivity, centralised network management and advanced security. Combining a gateway and Omada controller in one device, it simplifies network deployment while providing centralised management through the Omada Network Application, Omada App and cloud access without requiring individual device management licences.

Equipped with a quad-core processor, 9 x 2.5G RJ45 ports and 8 x PoE+ ports with a combined 110W power budget, the Fusion 2.5G PoE supports demanding wired networking environments. Its multi-WAN capabilities provide load balancing and automatic failover, while advanced security features include IDS/IPS, deep packet inspection, application-based access control, content filtering and firewall protection. Integrated VPN functionality and Full Mesh SD-WAN provide secure connectivity between business locations.

The 3.69-inch touchscreen provides convenient access to network information and troubleshooting tools. Bluetooth-assisted onboarding simplifies installation, while flexible desktop, wall-mount and rack-mount installation options accommodate different business environments. It is suitable for offices, retail businesses, restaurants, clinics and small business networks requiring centralised management and reliable multi-gigabit connectivity.

Performance tier: Business / Advanced SMB Enterprise Networking

Uses: Business network management, multi-gigabit routing, PoE network deployment, Wi-Fi access point connectivity, multi-WAN load balancing, VPN networking, multi-site connectivity, firewall security, office networking, retail networking

Description

The TP-Link Omada Fusion 2.5G PoE Gateway is an advanced integrated networking solution developed for businesses that require high-speed wired connectivity, centralised management and comprehensive network security. It combines the functionality of a business gateway and Omada controller, allowing network administrators to manage compatible Omada networking equipment from a unified management platform.

High-speed 2.5GbE connectivity

The gateway features 9 x 2.5G RJ45 Ethernet ports, consisting of 1 dedicated WAN port and 8 configurable LAN/WAN ports. These multi-gigabit interfaces provide high-speed connectivity for compatible network switches, wireless access points, servers, network storage and other wired devices. The eight configurable WAN/LAN ports also provide flexibility when expanding network connections or implementing multi-WAN configurations.

Integrated PoE+ power delivery

Eight Ethernet ports support Power over Ethernet Plus (PoE+), providing a combined power budget of 110W. This allows compatible powered devices, including network access points, to receive both network connectivity and electrical power through a single Ethernet cable. By reducing the need for separate power supplies at connected devices, the gateway helps

simplify network installations and cable management.

Advanced multi-WAN networking

With support for up to eight simultaneous WAN connections, the Fusion 2.5G PoE offers flexible internet connectivity for business environments. Multi-WAN load balancing distributes network traffic across available internet connections, while automatic failover helps maintain connectivity when an internet connection becomes unavailable. This functionality is particularly useful for businesses that depend on continuous internet access.

Centralised Omada network management

The integrated Omada controller provides centralised management for compatible Omada networking devices. Administrators can monitor network performance, view connected clients, manage devices and configure network settings through the Omada Network Application and Omada App. Cloud access enables remote management, while Bluetooth-assisted onboarding simplifies initial installation and device adoption.

Advanced network security

Security features include intrusion detection and prevention (IDS/IPS), deep packet inspection (DPI), firewall protection, application-based access control, content filtering, ad blocking, Safe Search, DNS security and ARP inspection. These tools help administrators manage network access, monitor traffic and protect business network environments.

VPN and multi-site connectivity

The gateway supports several VPN technologies, including WireGuard, IPsec, OpenVPN, SSL VPN, L2TP and PPTP, depending on the VPN operating mode. Omada LightLink VPN provides simplified secure remote access, while Full Mesh SD-WAN enables connectivity between multiple business locations. These capabilities make the gateway suitable for businesses with remote employees, branch offices and distributed network infrastructure.

Touchscreen and flexible installation

The integrated 3.69-inch touchscreen provides convenient access to device information and troubleshooting functions without requiring every task to be performed remotely. The compact polycarbonate enclosure supports desktop installation, with optional mounting accessories available for wall-mounted and rack-mounted installations.

The TP-Link Omada Fusion 2.5G PoE Gateway is a comprehensive networking platform for small and medium-sized businesses looking to consolidate routing, PoE power delivery, network management and security into one professional networking device.

Features

Integrated gateway and Omada controller

- Combines business gateway functionality and an Omada network controller in one device.
- Centralised management of compatible Omada networking equipment.
- License-free cloud management without individual device management licences.
- Supports cloud access, on-premises management and the Omada App.

9 x 2.5G Ethernet ports

- 1 x dedicated 2.5G RJ45 WAN port.
- 8 x configurable 2.5G RJ45 LAN/WAN ports.
- Supports high-speed wired networking for compatible business equipment.
- Up to 8 simultaneous WAN connections.

8-port PoE+ power delivery

- 8 x PoE+ enabled Ethernet ports.
- 110W combined PoE power budget.
- Supports compatible powered network devices.

- Reduces the need for separate electrical power connections for compatible PoE devices.

Multi-WAN load balancing and failover

- Supports multi-WAN load balancing.
- Automatic WAN failover for improved connection availability.
- Supports up to 8 simultaneous WAN connections.
- Provides flexible internet connectivity for business networks.

Advanced network security

- Intrusion Detection and Prevention System (IDS/IPS).
- Deep Packet Inspection (DPI).
- Firewall and attack defence features.
- Application-based Access Control Lists (ACL).
- Content filtering and ad blocking.
- Safe Search and DNS security.
- ARP inspection.

VPN and SD-WAN functionality

- Omada LightLink VPN for simplified secure remote access.
- WireGuard and IPsec site-to-site VPN support.
- VPN server support for WireGuard, OpenVPN, IPsec, SSL VPN, L2TP and PPTP.
- VPN client support for WireGuard, OpenVPN, L2TP and PPTP.
- Full Mesh SD-WAN for multi-site networking.

Convenient network management

- Integrated 3.69-inch touchscreen.
- Bluetooth-assisted network onboarding.
- Automatic discovery and bulk adoption of compatible Omada devices.
- Network topology and traffic monitoring.
- Health monitoring, device management and reporting.
- One-click Auto QoS functionality.

Flexible installation

- Desktop installation without additional mounting accessories.
- Optional wall mounting using a separately sold magnetic mounting plate.
- Optional rack mounting using a separately sold rack-mount accessory.
- Compact polycarbonate enclosure.

Fusion Gateway at the Center of the Omada Networking Ecosystem
Gateway and controller integrated into a single device, delivering a unified solution that combines networking and centralized management at the core of the Omada networking ecosystem-improving the installation and management experience.

Simplified Setup for Faster Deployment, Boosting Efficiency
Easily set up the Fusion 2.5G PoE via Bluetooth using the Omada App. Automatically discover and batch adopt all other Omada networking devices at once, saving time and simplifying IT deployment.

High-Performance Quad-Core CPU
Provides fast processing for stable gateway and controller performance.

Full 2.5G Ports for Ultra-Fast Connectivity
Handle Wi-Fi 7 access points and high-speed NAS traffic without performance bottlenecks.

IPS/IDS at 2.1 Gbps*
Provides strong protection while maintaining high network performance.

Flexible PoE Support
8x PoE-enabled ports with 110W power budget, simplifying cabling and device deployment.

Quick Troubleshooting via Touchscreen, Reducing On-Site Work
With an innovative 3.69-inch touchscreen, enjoy quick troubleshooting - all at your fingertips. Reduce on-site visit and save time with direct, on-device monitoring.

Secure Remote Network Access, One Click Away
With Omada LightLink VPN, you can securely access your network from anywhere with one click. Powered by Smart Split Tunneling, only essential traffic goes through the VPN, reducing unnecessary VPN load and preserving a smooth user experience.

Simple Multi-Site Connectivity with Full-Mesh SD-WAN
Connect up to 20 sites in minutes with direct inter-site links-simpler to deploy, smoother for multi-site networking.

App-Based Access Control
Easily manage access by app and category. Control access intuitively with simple, clearly defined policies.

One-Click Auto QoS
Ensure critical traffic always gets priority, with one-click presets or full customization.

Content Filtering & Ad Blocking
Blocks unwanted sites and intrusive ads for a safer, cleaner experience.

Desktop
No Additional Installation Needed

Wall-Mountable
Magnetic-Mount Plate Needed**

Rack-Mountable
Rack-Mount Kit Needed**

What's in the Box

- 1 x TP-Link Omada Fusion 2.5G PoE Gateway
- 1 x 54V DC / 2.43A power adapter

Specifications

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Specifications	
Product Code	TP Fusion 2.5G PoE
Overview	
Built-In Omada OS Applications	Omada Network Application (Network Management)

Managed Omada Devices	30 (Recommended)
Client Capacity	300 (Recommended)
Interface	1x 2.5G RJ45 WAN Port
	8x 2.5G RJ45 LAN/WAN Ports
	8x PoE+ Ports, 110W Total Budget
	Up to 8 Simultaneous WAN Ports
IPS Throughput	2,183 Mbps
Site-to-Site VPN Throughput	1,023 Mbps
Management	Cloud Access
	On-Premises Management
	Omada App
Mounting	Desktop
	Wall-Mount (Magnetic-Mount Plate Sold Separately)
	Rack-Mount (Rackmount Kit Sold Separately)
Dimensions	8.90 x 5.31 x 1.24 in (226 x 135 x 31.5 mm)
SECURITY	
IDS/IPS	Yes
DPI	Yes
Application-Based ACL	Yes
Content Filtering	Yes
Ad Blocker	Yes
Safe Search	Yes
DNS Security	Yes
Firewall	Yes
Attack Defense	Yes
ARP Inspection	Yes
VPN & SD-WAN	
Omada LightLink VPN	Yes
Site-to-Site VPN	WireGuard VPN / IPsec VPN
VPN Server	WireGuard VPN / OpenVPN / IPsec VPN / SSL VPN / L2TP VPN / PPTP VPN
VPN Client	WireGuard VPN / OpenVPN / L2TP VPN / PPTP VPN
SD-WAN	Full Mesh Mode

VPN Throughput	Omada LightLink VPN: 527 Mbps
	IPsec VPN: 1,023 Mbps
	WireGuard VPN: 605 Mbps
	OpenVPN: 223 Mbps
	L2TP VPN: 892 Mbps
	PPTP VPN: 193 Mbps
	SSL VPN: 250 Mbps
Networking	
WAN Connection	Static IP / Dynamic IP / PPPoE / PPTP / L2TP / MAP-E / DS-Lite
Multi-WAN Failover & Load Balancing	Yes
DHCP Server	Yes
VLAN Segmentation	Yes
Bandwidth Control	Yes
QoS	Yes
Static Routing	Yes
Policy Routing	Yes
NAT	Port Forwarding / Virtual Server / DMZ / ALG / UPnP / One-to-One NAT / Disable NAT
Dynamic DNS	TP-Link DDNS, 3rd-Party DDNS, Custom DDNS
IPv6	Static IP / SLAAC / DHCPv6 / PPPoE / 6to4 Tunnel / Pass-Through / Non-Address Mode
Bonjour / mDNS	Yes
IGMP v2/v3 Proxy	Yes
Network Management	
Dashboard-Overview/Wi-Fi/Clients/ Traffic	Yes
Dashboard-Network Topology	Yes
Health Monitoring	Yes
Device Management	Automatic Device Discovery
Switch Ports	Yes
Client Management	Yes
Reports	Yes
Logs	Alerts / Events / Audit Logs
Maintenance Tools	Ping Test, Packet Capture, Terminal, Cable Test, Interference Detection, Remote Access, IntelliRecover, Port Mirroring
IntelliRecover	Yes
SNMP	v1/v2c/v3
SSID	Yes
PPSK	Yes

WLAN Optimization	Yes
Portal	Yes
Bluetooth	Yes
HARDWARE	
Touchscreen	3.69-inch Bolor LCM Touchscreen
Button	Reset Button
Memory	2 GB DDR4
Power Supply	54V DC / 2.43A Adapter
PoE Budget	110W
Max Power Consumption	131 W, with Power Adapter
Enclosure	Polycarbonate
LED	Ethernet
Fan	Yes
Net Weight	1.60 lb (728 g)
Surge Protection	4 kV Surge Protection
ESD Protection	+/-8 kV (Air), +/-4 kV (Contact)
Onboarding	Bluetooth or Ethernet
Certifications	CE, FCC, RoHS
Environment	Operating Temperature: 14 degreesF to 104 degreesF (-10 degreesC to 40 degreesC)
	Storage Temperature: -22 degreesF to 158 degreesF (-30 degreesC to 70 degreesC)
	Operating Humidity: 10% to 90% RH, Non-Condensing
	Storage Humidity: 5% to 90% RH, Non-Condensing

FAQ

What is the TP-Link Omada Fusion 2.5G PoE Gateway?

The TP-Link Omada Fusion 2.5G PoE is a business networking gateway that combines routing, an integrated Omada controller, multi-WAN connectivity, PoE+ power delivery and advanced network security in one device.

How many Ethernet ports does the Fusion 2.5G PoE have?

It has 9 x 2.5G RJ45 Ethernet ports, consisting of 1 dedicated WAN port and 8 configurable LAN/WAN ports.

How many PoE devices can the TP-Link Fusion 2.5G PoE power?

The gateway has 8 x PoE+ enabled Ethernet ports and a combined PoE power budget of 110W. The actual number of devices that can be powered depends on the individual power requirements of the connected equipment and the available total PoE budget.

Does the Omada Fusion 2.5G PoE support Wi-Fi?

The Fusion 2.5G PoE is a wired networking gateway and does not provide built-in Wi-Fi access point functionality. It can connect to compatible Omada wireless access points through its Ethernet ports, including its PoE+ ports.

Can the Fusion 2.5G PoE manage Omada access points?

Yes. Its integrated Omada controller supports centralised management of compatible Omada networking devices, including wireless access points and network switches, through the Omada Network Application.

Does the TP-Link Fusion 2.5G PoE support multiple internet connections?

Yes. It supports up to 8 simultaneous WAN connections with multi-WAN load balancing and automatic failover. This allows businesses to distribute network traffic across internet connections and improve connection availability.

Does this gateway support VPN connections?

Yes. It supports Omada LightLink VPN, WireGuard, IPsec, OpenVPN, SSL VPN, L2TP and PPTP, with supported protocols depending on whether the gateway operates as a VPN server, client or site-to-site endpoint.

Can the TP-Link Omada Fusion 2.5G PoE be managed remotely?

Yes. The gateway supports cloud access and remote management through the Omada Network Application and Omada App, allowing administrators to monitor and manage compatible network equipment remotely.

What is the purpose of the touchscreen?

The integrated 3.69-inch touchscreen provides on-device network information and troubleshooting functionality, helping administrators inspect network status without relying entirely on remote management.

Can the Fusion 2.5G PoE be wall-mounted or rack-mounted?

Yes. It supports desktop installation as well as optional wall mounting and rack mounting. The magnetic mounting plate and rack-mount accessories are sold separately.

Is the TP-Link Fusion 2.5G PoE suitable for small businesses?

Yes. It is designed for business environments such as offices, retail stores, restaurants and medical clinics that require centralised network management, multi-gigabit Ethernet, PoE+ connectivity and advanced security features.

What is the PoE power budget of the Fusion 2.5G PoE?

The gateway provides a combined PoE power budget of 110W across its 8 PoE+ ports. Actual available power depends on connected device requirements and operating conditions.

What is the maximum recommended network management capacity?

TP-Link recommends managing up to 30 Omada devices and 300 clients. Actual management capacity and performance can vary depending on connected equipment, software versions and network conditions.

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/TP-Fusion-2-5G-PoE-TP-Link-Omada-Fusion-2-5G-PoE-Gateway-p-342110.php

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