



8-Port 2.5GbE PoE++ Web Smart Switch with 1 10GbE SFP+ Port

TGS-3109PLX

FEATURES

- 8 x 2.5GbE 90W PoE++ Multi-Gigabit RJ45 ports and 1 10GbE SFP+ port
- IEEE 802.3bt/at/af PoE++ compliant, up to 90W per port (total power budget: 240W) for powering PoEenabled devices
- Dedicated Intelligent Thermal Controller to control fan speeds for power saving and noise reduction
- Guaranteed PoE long distance to 200 meters
- Auto-detection of powered devices (PD) and power consumption levels
- No need to upgrade on the cabling infrastructure, double the network bandwidth by leveraging existing CAT5E cabling infrastructure
- Power backfeed protection to avoid damaging the PoE ports
- Supports smart management features including QoS, 802.1Q VLAN, Port Trunking/Link Aggregation, Port Mirroring, IGMP Snooping v1/v2/v3, Broadcast Storm Control, Loop Detection/Prevention and more
- Supports 60Gbps backplane bandwidth, 44.64Mpps forwarding rate, 4K MAC address table and 12KB jumbo frame
- · Rack-mount design, rack-mount kit included

OVERVIEW

The TGS-3109PLX is a web-smart switch with 8 2.5GbE PoE++ RJ45 and 1 10GbE SFP+ uplink port. Each PoE++ port can supply up to 90W power to PoE-enabled devices with up to total 240W power budget per switch. It offers powerful and reliable network connectivity providing sufficient bandwidth and speed demanding applications such as data transferring, backup, video conferencing, IP surveillance, and Wi-Fi 6/6E/7 APs.

Tailored for IP cameras and far away network device applications, the EDIMAX specific long-range mode allows for power and data transmission up to 200 meters at a guaranteed speed of 10Mbps, making it ideal for IP cameras and remote network devices.

The PoE also features auto-detection and power backfeed protection to efficiently provide power and avoid damaging PoE ports at the same time. With smart features such as QoS, 802.1Q VLAN, Port Trunking/Link Aggregation, Port Mirroring, IGMP Snooping v1/v2/v3, Broadcast Storm Control, Loop Detection/Prevention, the TGS-3109PLX provides a cost-effective, reliable, scalable and secure switch solution for SMB networks.

Boost the Network Connection to 2.5G Multi-Gig and 10GbE SFP+ Uplink

Equipped with 8 2.5G Multi-Gigabit RJ45 ports for high-speed connections, the TGS-3109PLX breaks the gigabit barrier and supports the full potential of Wi-Fi 6/6E/7 APs. The dedicated SFP+ 10GbE fiber port with fiber-optic uplinking capability allows the TGS-3109PLX to be easily deployed in multiple physical locations, such as branches, retails, or remote workgroup environment for larger network access.

Double the Performance to 2.5GbE with Existing Cabling Infrastructure

Just plug Ethernet-enabled devices into the TGS-3109PLX to double the network bandwidth while leveraging the existing CAT5E cabling infrastructure for cost savings with no additional cables required. Overall, it reduces installation costs and simplifies the deployment effort.

Powerful 90W PoE++ Solution with PoE Auto-detection

The TGS-3109PLX switch auto detects powered devices (PD) and power consumption levels, while offers high-speed data network connection and power supply to faraway Powered Devices (PDs) up to 90W per port. Connected to any IEEE 802.3af/at/bt end-nodes such as speed dome IP cameras, Digital Signage, color touch-screen, VoIP telephones, multi-channel wireless LAN access points, information kiosk, POS system, and thin client.

TGS-3109PLX

Power Saving Implementation with Intelligent Thermal Controller

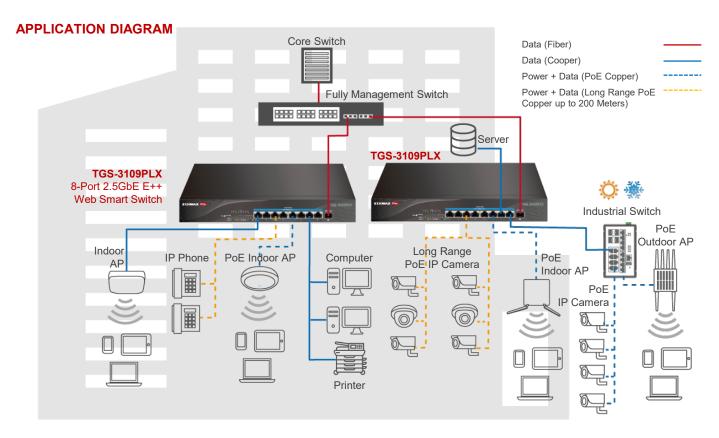
With a dedicated and intelligent microchip for cooling system control, the TGS-3109PLX can measure and control fan speeds, also turn on/off each fan for power saving and noise reduction.

Safe Guard Your Devices with Power Backfeed Protection

The TGS-3109PLX supplies up to 90W of electricity per port and has a total power supply of 240W to power any 802.3bt/at/af compliant PoE/PoE++ device. With built-in PoE detection capability, the TGS-3109PLX is able to verify whether the connected device is IEEE802.3bt/at/af compliant or not. Moreover, with the power backfeed protection, the TGS-3109PLX can avoid damaging the PoE ports.

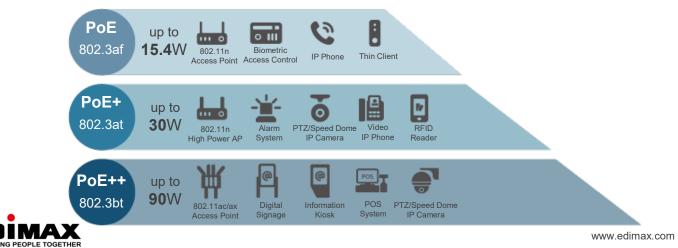
Intuitive and Powerful Smart Layer 2 Management

The TGS-3109PLX is designed for small-and-medium business (SMB) networks that require smart and simple network management. This web smart switch meets the network growing need by providing advanced essential features such as QoS, 802.1Q VLAN, Port Trunking/Link Aggregation, Port Mirroring, IGMP Snooping v1/v2/v3, Broadcast Storm Control, Loop Detection/Prevention and more. Further optimizing the performance of business networks. Experience fast and easy operations with just a few simple clicks through the user-friendly web-based management utility. Your network is ready to use with ease.



POE DEVICES

Complies with IEEE 802.3af (PoE), IEEE 802.3at (PoE+) and IEEE 802.3bt (PoE++) Standards and supports PoE PD (Power Device) up to 90W per PoE port, total PoE power budget up to 240W per switch.



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SPECIFICATIONS	
HARDWARE	
Ports	 8 x RJ45 2.5GBase-T 2.5 Gigabit PoE++ Ports 1 x SFP+ 10GBase-X 10 Gigabit Uplink Port
Buttons	Reset Button
	PoE Max.: PoE Power Budget Alert
LED Indicators	 PWR: System Power Status Link/Act: Connection and Transmission Status (Port 1-8 RJ45, Port 9 SFP+)
	• PoE: PoE Status
Power Input	100-240V AC, 50-60Hz, Internal Power Supply
Total Power Budget	
	Desktop / Rack-mount (Rack-mount Kit Included)
Housing	1 x Fan with Intelligent Thermal Controller
	330 (W) x 230 (D) x 44 (H) mm (12.99 (W) x 9.06 (D) x 1.73 (H) inches)
	2.39kg (5.27lb)
PERFORMANCE	
Switching Capacity / Backplane	60Gbps
•	Max. 44.64Mpps (64-byte Package Size)
MAC Address Table	
Jumbo Frame Packet Buffer	
POWER OVER ETHERNET	
	IEEE 802.3bt (PoE++), IEEE 802.3at (PoE+), IEEE 802.3af (PoE)
	Up to 90W per Port
Pin Assignment	IEEE 802.3at/af: Alternative A (Pin 1,2/3,6)
	IEEE 802.301: Alternative A & B (PIn 1,2/3,6 & PIn 4,5/7,8)
	PoE Status, PoE On/Off Guaranteed PoE long distance to 200 meters (656 feet) at 10Mbps
Power Backfeed Protection	0 () 1
SMART FEATIRES	
	Port-based QoS
Quality of Service (QoS)	 IEEE802.1p QoS 4 Priority Queues
	Scheduling Algorithms
VLAN	Up to 10 VLANs
	802.1Q Tag-based VLAN IEEE 802.3ad LACP Trunk-Static Trunk
	IGMP v1/v2/v3 Snooping
IGMP Snooping	Block Unknown Multicast Traffic
	Multicast Groups: 128 Port Mirroring Traffic Direction:
Deut Mineria	Both (Ingress and Egress)
Port Mirroring	• Ingress
Security	Egress Broadcast Storm Control
Geounty	User Interface: Web-based management
Management	User Account: Login account configuration
	 Firmware Upgrade: Firmware upgrade by WEB Loop Detection/Prevention
OTHERS	
	IEEE 802.3u 100Base-TX Fast Ethernet
	IEEE 802.3ab 1000Base-T Gigabit Ethernet
	 IEEE 802.3bz 2.5GBase-T 2.5G Ethernet IEEE 802.3z 1000Base-SX/LX Gigabit Ethernet over fiber
	IEEE 802.3ae 10GBase-X Gigabit Ethernet over fiber
Standard	 IEEE 802.3af Power over Ethernet (PoE) IEEE 802.3at Power over Ethernet (PoE+)
Clandara	IEEE 802.3bt Power over Ethernet (PoE++)
	 IEEE 802.3x Full-duplex and Flow Control IEEE 802.1p Quality of Service (QoS)
	• IEEE 802.1Q Virtuál LANs VLANs
	 IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3az Energy Efficient Ethernet
	Temperature:
	• Operating: 0~40°C (32~104°F)
	• Storage: -40~70°C (-40~158°É) Humidity:
Condition	Operating: 10~90% (NonCondensing)
	Storage: 10~90% (NonCondensing)
Certifications	

Maximum performance, actual data rates, and coverage will vary depending on network conditions and environmental factors. Product specifications and design are subject to change without notice. Copyright © Edimax Technology Co. Ltd. All rights reserved. www.edimax.com 3



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