


GS-5424PLG

# 24-Port Gigabit PoE+ with 4 SFP Slots Web Smart Switch

The Edimax Pro GS-5424PLG is a web-smart switch with 24 Gigabit PoE+ ports and 4 Gigabit SFP slots. Designed for medium to large network environments, its standard 19-inch 1U rack-mount brackets allow for integration with the most widely used mounting systems on the market. The Edimax GS-5424PLG is a superb choice to boost your network environment's performance and efficiency.

## IEEE 802.3at/af Power over Ethernet Standard

The GS-5424PLG features 24 IEEE 802.3at Power over Ethernet (PoE+) ports which supply up to 30W of electricity per port, and has a total power supply of 400W to power any IEEE 802.3at or 802.3af compliant power device. With PoE detection capability, the GS-5424PLG is able to verify whether the connected device is IEEE 802.3at or 802.3af compliant. In the event that a PoE device is not detected, only network data will be transmitted through the LAN cable. The GS-5424PLG can be used with different PoE products such as access points, network cameras or VoIP devices and is an effective solution for network environments where power outlets are difficult to access.

## PoE for Easy Installation and Better Cost Efficiency

Power over Ethernet technology enables the Ethernet cable to carry both data and power, reducing cable installation and eliminating the need for extension cords or electrical outlets on the walls and ceiling. Overall the GS-5424PLG can lower installation cost and simplify deployment efforts.

## Power-Budget User Interface for PoE Device Management

The GS-5424PLG features an innovative power-budget UI (user interface) which allows IT managers to monitor the power consumption of each PoE port and the total power consumption of connected PoE devices. Monitor the entire PoE network and assess the total power usage before adding new PoE devices to the network architecture. The power-budget UI also features a remote on/off function for each PoE port, so manual plug/unplug isn't necessary when a PoE device hangs. Simply use the remote power button to quickly reset the device.

## Smart Tools for Improved Network Efficiency

The GS-5424PLG features smart network monitoring tools that allow for improved network efficiency. Security and management features include bandwidth control and VLAN (IEEE 802.1Q VLAN tagging and port-based VLAN). Using its web-based interface, administrators can set up VLANs to segregate traffic and configure link aggregation settings to create fat traffic pipelines. Additionally, these features offer extra protection on the network edge and the password-protected configuration interface can be accessed remotely.

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.
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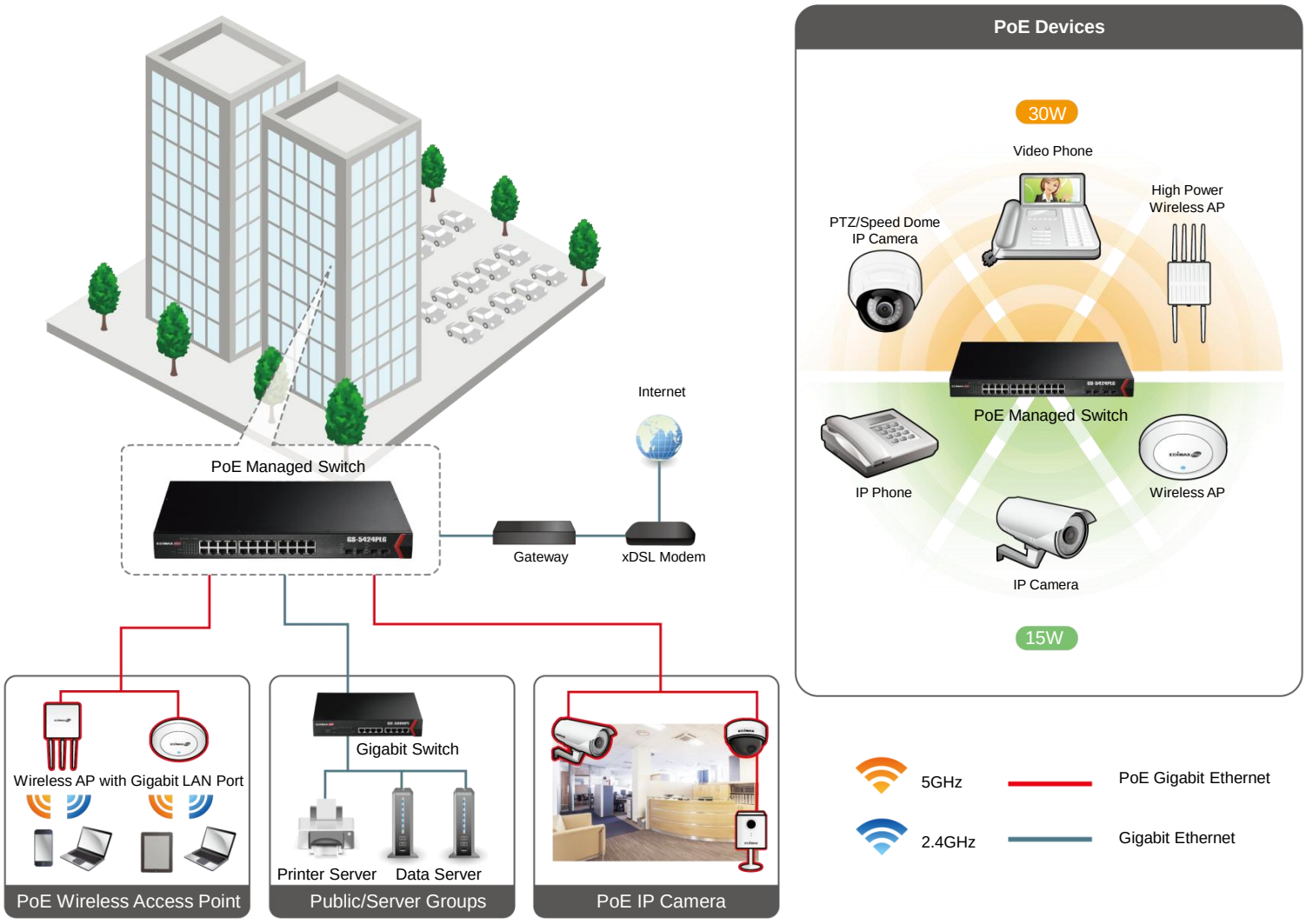
## KEY FEATURES

•IEEE 802.3af/at PoE compliant.
•Twenty-four Gigabit Ethernet ports and four mini-GBIC/SFP slots.
•Up to 30W per port (total power budget: 400W) for powering PoE-enabled devices.
•Auto-detection of powered devices (PD) and power consumption levels.
•Auto fault-detection on over/under current & voltage.
•Access Control List (ACL) support.
•Switch capacity:56Gbps & Forwarding rate:35.7Mpps.
•IEEE 802.1Q-based VLAN for network segmentation to improve performance and security.
•Supports IPv4/IPv6 network operation.
•IGMP Snooping V1 / V2 support.
•8K MAC address table and jumbo frame support up to 9KB.
•19-inch 1U rack-mount.

## APPLICATION DIAGRAM

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## SPECIFICATIONS

| | |
|---|---|
| **Hardware** | |
| Ports | 24 Port RJ-45 10/100/1000Base-T PoE ports<br>4 Port 100/1000Base-X SFP slots |
| Transmission Method | Store and forward |
| Buttons | Reset button |
| LED Indicators | Per Port: Link/Act<br>PoE: Act/Status<br>Per Unit: Power |
| Power Input | 100-240V AC, 50-60 Hz, internal power supply |
| Total Power Budget | 400W |
| Dimensions (L x W x H) | 441 x 310 x 44 mm |
| Weight | 4.04kg |
| **Performance** | |
| Switching Capacity | 56Gbps |
| Forwarding Rate | 35.7Mpps |
| MAC Address | 8K |
| Buffer Memory | 500KB |
| Jumbo Frames | 9.6KB |
| Filtering/Forwarding Rates | 1000Mbps port – 1,488,000pps<br>100Mbps port - 148,800pps<br>10Mbps port - 14,880pps |
| **Power over Ethernet** | |
| Standard | IEEE 802.3af, IEEE 802.3at |
| Power Output | Up to 30W per port |
| Pin Assignment | 1/2(+), 3/6(-) End-Span (mode A) |
| Available Power Budget | 330W |
| Management | PoE status, PoE on/off, PoE live checking, per port power priority setting |
| **Smart Features** | |
| VLAN | Up to 256 VLANs and 4096 VLAN IDs<br>802.1Q tag-based VLAN<br>Port-based VLAN |
| Port Trunking | IEEE 802.3ad LACP Trunk-Static trunk up to 8 trunk groups |
| IGMP Snooping | IGMP v1/v2 snooping |
| Mirror | Port mirroring both on ingress and egress traffic |
| Management | User Interface: Web-based management<br>User Account: Login account configuration<br>Firmware Upgrade: Firmware upgrade by WEB<br>Syslog: Support event log, alarm log and security log |
| Security | IMPB: Support IP-MAC-Port binding<br>Rate Limit: Rate Limit on ingress and egress traffic<br>DHCP protection<br>Storm control |
| **Environment** | |
| Temperature | Operating: 0 ~ 50°C<br>Storage: -40 ~ 70°C |
| Humidity (Non-condensing) | Operating: 10 ~ 90%<br>Storage: 10 ~ 90% |
| **Standards Compliance** | |
| Standards | IEEE 802.3 10BaseT Ethernet<br>IEEE 802.3u 100BaseTX Fast Ethernet<br>IEEE 802.3ab 1000BaseT Gigabit Ethernet<br>IEEE 802.3z 1000BaseSX/LX<br>IEEE 802.3af Power over Ethernet (PoE)<br>IEEE 802.3at Power over Ethernet Plus (PoE+)<br>IEEE 802.3x Full-duplex and flow control<br>IEEE 802.1Q VLAN<br>IEEE 802.3ad Link Aggregation Control Protocol (LACP) |
| Certifications | FCC Class A, CE |

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