**ES-5816PHG**

# Gigabit 16-Port PoE+ Web Smart Switch

The Edimax ES-5816PHG is a 16-port gigabit rack-mount switch with 16 PSE/PoE ports. It is designed for sturdy network connections in medium to large network environments. Its standard 19-inch rack-mount brackets allow for perfect integration with the most widely used mounting systems on the market. The Edimax ES-5816PHG is truly a superb choice to boost your network environment's performance and efficiency.

## Complies with the IEEE 802.3at Power over Ethernet (PoE+) Standard

The ES-5816PHG features 16 IEEE 802.3at Power over Ethernet (PoE+) ports, which supplies up to 30 watts of electricity per port. It can convert standard 90-260V AC electricity into low-voltage DC electricity to power IEEE 802.3at/af compliant network accessories via existing LAN cables. With PoE detection capability, the ES-5816PHG is able to verify whether the connected device is IEEE 802.3af compliant. In the event that a PoE device is not detected, only network data will be transmitted through the LAN cable. The ES-5816PHG can be used with different PoE products, such as access points, network cameras, or VoIP devices. It is the best solution for network environments where power outlets are difficult to access.

## Compliant with Cat 5 Ethernet Cables for Higher Cost Efficiency

The ES-5816PHG can transmit both power and network data via Cat 5 Ethernet cables. With the ES-5816PHG, no special networking cables or power adapters are necessary for PoE applications. The ES-5816PHG reduces the difficulty, time, and cost of establishing a sturdy network environment.

## Features Power Budget UI for Easy Management of PoE Devices

The ES-5816PHG features an innovative power budget UI that allows IT managers to monitor the power consumption on each PoE port as well as the total power consumption of those devices connected to the ES-5816PHG. IT managers can easily monitor the whole PoE network and assess the total power usage before adding new PoE devices to the PoE network architecture. The power budget UI also features a remote on/off function for each PoE port. When one PoE device hangs, the IT manager does not need to unplug and plug the network line manually. Simply by clicking the power on/off button, the IT manager can reset the PoE device remotely in seconds.

## Smart Tools for Improved Network Efficiency

The ES-5816PHG features smart QoS/CoS and network monitoring tools that allow for improved network efficiency. Its security and management features include bandwidth control and VLAN (IEEE 802.1Q VLAN tagging and port-based VLAN). Through its web-based interface, an administrator can set up VLANs to segregate traffic, prioritize mission-critical data with QoS, and configure link aggregation settings to create fat traffic pipelines. In addition, the ES-5816PHG also supports Rapid Spanning Tree to detect and break unintentional cabling loops within the network. All of these features offer extra protection on the network edge. Best of all, the password-protected configuration interface can be accessed remotely.

## Specification

| Standards | IEEE 802.3 10BaseT<br>IEEE 802.3u 100BaseTX<br>IEEE 802.ab 1000BaseT<br>IEEE 802.3z 1000BaseSX/LX<br>IEEE 802.3x Flow Control<br>IEEE 802.3af PoE<br>IEEE 802.3at PoE<br>IEEE 802.1x Port-based Network Access Control<br>IEEE 802.1Q VLAN<br>IEEE 802.3ad Link Aggregation<br>IEEE 802.1d Spanning Tree Protocol<br>IEEE 802.1w Rapid Spanning Tree Protocol<br>IEEE 802.1p Class of Service, Priority Protocols |
|---|---|
| Features | RJ-45 Gigabit Ports: 16<br>SFP Open Slots: 4<br>MAC Address: 8K<br>Buffer Memory: 500K Bytes<br>Jumbo Frames: 9.6K<br>Transmission Method: Store and Forward |
| Smart Features | VLAN: 32<br>Tagged VLAN: 32<br>VLAN ID: 1~ 4094<br>Trunk Groups: 8<br>Quality of Service: up to 4 queues<br>IGMP Snooping<br>LACP, RSTP<br>MAC Filtering<br>Rate Limiting (Ingress rate and Egress rate)<br>802.1x Port-based Network Access Control<br>Management: Port Mirroring, Password-protected Access, Port Settings, Web-base Management, Graphic User Interface |
| Transmission Media | 10BaseT Cat. 3, 4, 5 UTP/STP<br>100BaseTX Cat. 5 UTP/STP<br>1000BaseT Cat. 5E UTP/STP |
| Led Indicators | Per Port: Link/Act, PoE: Act/Status<br>Per Unit: Power |
| Power Requirement | 100~240V/AC, 50~60Hz |
| Power Consumption | 130 Watts (Max) |
| Dimensions | 440 x 330 x 44mm(L x W x H) |
| Weight | 4.3kg |
| Operating Temperature | 0 to 40℃ |
| Storage Temperature | -20 to 90℃ |
| Humidity | 10 to 90% RH (non-condensing) |
| Certifications | FCC Class A, CE |