



## 4-port IEEE 802.3bt PoE Gigabit Switch

### PS541GB-120w



- \* **IEEE 802.3bt PoE Standard**
- \* **Internal Power of 120w for 4-port Ultra PoE PSE**
- \* **1-port Gigabit Uplink in Compact, sturdy metal casing**

#### Introduction

PS541GB-120w is a 5-port 10M/100M/1000MGigabit Ethernet Switch with one uplink port + 4 ports of IEEE 802.3bt Power over Ethernet capability which compliant to IEEE 802.3at/af/bt standards. Per PoE port is with power supply up to 90W. The total PoE power budget is 110W. It is an ideal solution where office and home users utilize a combination of PoE and non-PoE enabled devices.

#### PoE Functionality for the LAN

Four ports on the PS541GB-120w are PoE enabled by PD detection control making it an ideal solution for most office users that have PoE enabled devices located around the office. These products can include a mixture of PoE IP Phones, PoE wifi APs, PoE Digital Signage Monitor AIOT smart lighting and PoE IP Cam. PS541GB-120w is the perfect answer for offices that are upgrading their office equipment and LAN infrastructure to include PoE capability. The

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switch is IEEE 802.3af/at/bt standard device connected and provides power and data over a single cable to these devices.

#### Stable and Reliable Network Environment

The PS541GB-120w enables users to deploy a stable and reliable high-speed LAN environment, with store-and-forward switching architecture, packet error filtering and non-blocking packet forwarding. The 802.3x and backpressure flow control mechanisms work respectively for full and half duplex modes. This device supports N-way auto-negotiation protocol that automatically detects networking speed and duplex modes.

#### Easy to Use

For instant error detection, the switch is equipped with a full range of LEDs to help monitor and trouble-shooting on the network problems.

### Technical Specifications

|                                   |  |
|-----------------------------------|--|
| <b>Standards</b>                  | IEEE 802.3: 10 BASE-T                            |
|                                   | IEEE 802.3u: 100 BASE-TX, 802.3ab 1000Base-TX    |
|                                   | IEEE 802.3af/at/bt: Power Over Ethernet standard |
| <b>Features</b>                   | MAC Address: 2K                                  |
|                                   | Buffer Memory: 64KB                              |
|                                   | Transmission Method: Store and Forward           |
| <b>Filtering/Forwarding Rates</b> | 1000Mbps port- 1,488,000pps,                     |
|                                   | 100Mbps port - 148,800pps                        |
|                                   | 10Mbps port - 14,880pps                          |
| <b>Transmission Media</b>         | 10BaseT Cat. 3, 4, 5 UTP/STP                     |
|                                   | 100/1000BaseTX Cat. 5 UTP/STP                    |
| <b>Uplink Port</b>                | 1  |

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|                        |  |
|------------------------|--|
|                        |  |
| <b>PoE Spec</b>        | <p>Supports up to 90 W for each PoE port</p> <p>PoE power module budget : 110W</p> <p>PoE over current protection, PoE short protection</p> <p>PoE power on RJ-45 pin 1,2(-) 3,6(+)/ pin 4,5(+) 7,8(-)</p> |
| <b>LED Indicators</b>  | POWER, UPLINK, LAN 1~4 LINK, 1~4 PoE   |
| <b>Power Module</b>    | 100~240VAC/50~60Hz, Internal Power of 120w, 56VDC  |
| <b>Dimensions</b>      | 160 × 123 × 44 mm (Device), 235 x 145 x 80 mm (Box),<br>422 x 310 x 252 mm (Carton)  |
| <b>Weight</b>          | Device: 0.9kgs, Box: 1.1 kg, 10pcs/Carton:13kgs  |
| <b>Op. Temperature</b> | 0 to 40°C  |
| <b>Humidity</b>        | 10 to 90% RH (non-condensing)  |
| <b>Certifications</b>  | FCC, CE, LVD   |

### Ordering Information

|   |                           |
|---|---------------------------|
| <b>PS541GB-n</b><br><b>(default at factory)</b>     | A) 2-port 90w, 2-port 30w |
|   | B) 4-port 60w             |
|   | C) 1-port 90w, 3-port 30w |
| <b>PS541GBX-www</b><br><b>(bigger metal casing)</b> | Internal power of 150w    |
|   | Internal power of 250w    |
|   | Internal power of 380w    |

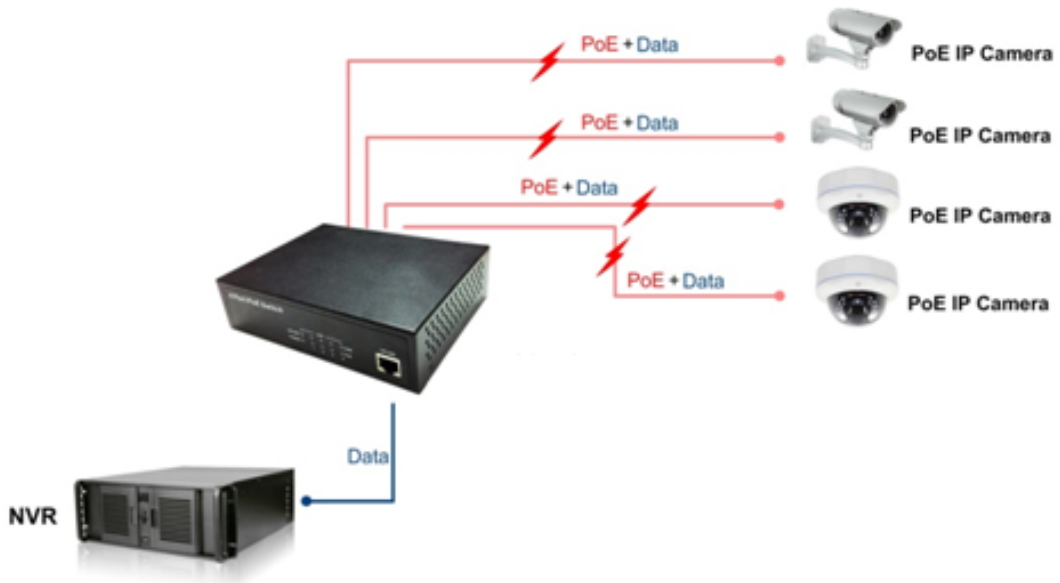
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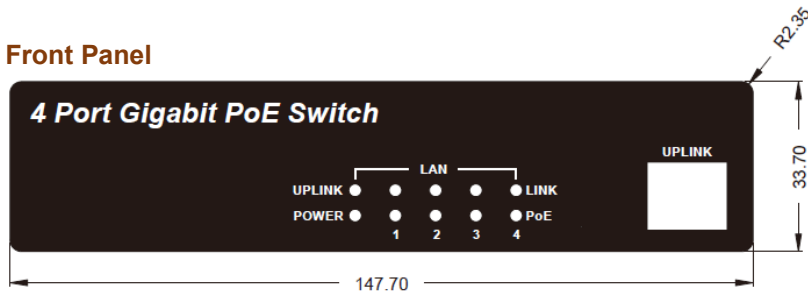
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Application Diagram  
Specifications



Front Panel



Rear Panel



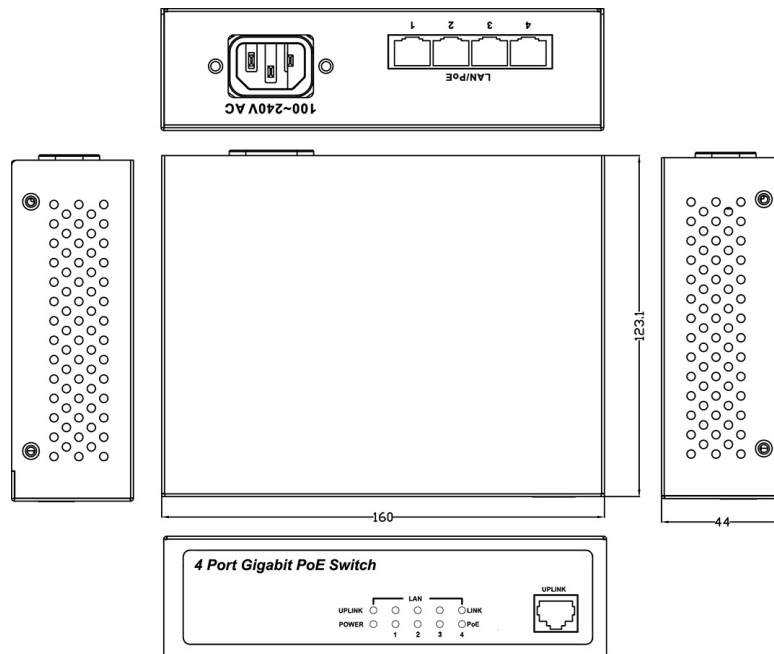
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**Mechanical Drawing**



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