# 1. Package Contents

Check the following contents of your package:

- Fast Ethernet High Power PoE Switch x 1
- User's Manual x 1
- Power Adapter x 1
- Power Cord x 1
- Rubber Feet x 4

If any of these are missing or damaged, please contact your dealer immediately; if possible, retain the carton including the original packing material, and use them again to repack the product in case there is a need to return it to us for repair.



# 2. Product Features

■ **RJ-45 Interface**

◇ Five 10/100Mbps Fast Ethernet ports

◇ 4 ports support 56V DC power to PoE Powered Device

■ **Power over Ethernet**

◇ Complies with IEEE 802.3af / at Power over Ethernet Mid-Span PSE

◇ Up to 4 IEEE 802.3af / 2 IEEE 802.3at devices powered

◇ Supports PoE Power up to 30 watts for each PoE port

◇ 60 watts PoE Budget

◇ Auto detects powered device (PD)

◇ Circuit protection prevents power interference between ports

◇ Remote power feeding up to 100m



# 3. Switch Front Panel

Figure 3-1 shows the front panel of ST-5HP4.

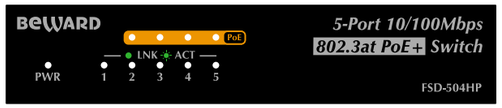


**Figure 3-1:** ST-5HP4 Front Panel



# 4. LED Indicators

## ■ System

| LED | Color | Function |
|---|---|---|
| PWR | Green | **Light:** Indicates the Switch has power. |

## ■ Per 10/100Mbps Port

| LED | Color | Function |
|---|---|---|
| PoE | Orange | **Light:** Indicates the port is providing 56V DC in-line power. |
| LNK/ACT | Green | **Light:** Indicates the link through that port is successfully established at 10/100Mbps.<br>**Blink:** Indicates that the Switch is actively sending or receiving data over that port. |



# 5. Switch Rear Panel

Figure 5-1 shows the rear panel of ST-5HP4.

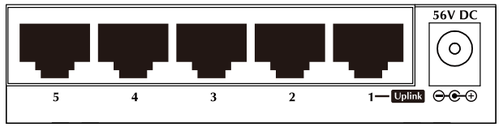


**Figure 5-1:** ST-5HP4 Rear Panel

Power Notice

1. The device is a power-required device, meaning it will not work till it is powered. If your networks should be active all the time, please consider using UPS (Uninterrupted Power Supply) for your device. It will prevent you from network data loss or network downtime.
2. In some area, installing a surge suppression device may also help to protect your ST-5HP4 from being damaged by unregulated surge or current to the ST-5HP4 or the power adapter.
3. The ST-5HP4 acceptable power supply range is DC 48V to DC 56V.



# 6. Installing the Switch

This part describes how to install your Fast Ethernet High Power PoE Switch and make connections to it. Please read the following topics and follow the procedures as presented.

Note

This Fast Ethernet High Power PoE Switch does not need software configuration.

## Desktop Installation

To install the Fast Ethernet High Power PoE Switch on desktop, simply follow the following steps:

**Step 1:** Attach the rubber feet to the recessed areas on the bottom of the Fast Ethernet High Power PoE Switch.

**Step 2:** Place the Fast Ethernet High Power PoE Switch on desktop near AC power source for its power adapter.

**Step 3:** Keep enough ventilation space between the Fast Ethernet High Power PoE Switch and the surrounding objects.

Note

When choosing a location, please keep in mind the environmental restrictions discussed in Chapter 7 -- Product Specifications.



**Step 4:** Connect your Fast Ethernet High Power PoE Switch to network devices.

**A.** Connect one end of a standard network cable to the 10/100Mbps RJ-45 ports on the back of the Fast Ethernet High Power PoE Switch.

**B.** Connect the other end of the cable to the network devices such as printer servers, workstations or routers.

**Step 5:** Connect your Fast Ethernet High Power PoE Switch to PoE PD devices.

**A.** Connect one end of a standard network cable to port 2 to port 5 10/100Mbps RJ-45 ports on the back of the Fast Ethernet High Power PoE Switch.

**B.** Connect the other end of the cable to the 802.3at / af powered devices.

**Cable distance for Switch**
The cable distance between the ST-5HP4 and PC / PD devices should not exceed 100 meters for UTP/STP cable.

**Make sure the wiring is correct**
It can be used Category 3/4/5 cable in 10 Mbps operation. To reliably operate your network at 100Mbps, you must use an Un-shielded Twisted-Pair (UTP) Category 5/5e cable, or better data grade cabling. While a Category 3 or 4 cable may initially seem to work, it will soon cause data loss.

**Step 6:** Supply power to the Fast Ethernet High Power PoE Switch.

**A.** Connect one end of the power cable to the Switch.

**B.** Connect the power plug of the power cable to a standard wall outlet.

When the Switch receives power, the Power LED should remain solid Green.



## 7. Product Specifications

| | |
|---|---|
| Model | **ST-5HP4**<br>4-Port 10/100Mbps 802.3af / at PoE + 1-Port 10/100Mbps Desktop Switch |
| Hardware Specifications | |
| Network Connector | 5-Port RJ-45 for 10/100Base-TX, auto MDI / MDIX |
| PoE Inject Port | 4-Port with 802.3af / at PoE injector function (Port 2 to port 5) |
| LED Display | **System:** Power (Green)<br>**Per PoE port:** PoE (Orange, port 2 to port 5)<br>LNK/ACT (Green, port 1 to port 5) |
| Switch Architecture | Store and Forward switch architecture |
| MAC Address Table | 1K MAC address table with Auto learning function |
| Switch Fabric | 1Gbps |
| Switch Throughput | 0.74Mpps @64Bytes |
| Maximum Packet Size | 1536Bytes |
| Flow Control | Back pressure for Half-Duplex.<br>IEEE 802.3x Pause Frame for Full-Duplex |



| | |
|---|---|
| Power Requirements | DC 56V, 1.16A. |
| Power Consumption | Max.62 watts / 211.5 BTU |
| Dimensions (W x D x H) | 90 x 80 x 21mm |
| Weight | 172g |
| Power over Ethernet | |
| PoE Standard | IEEE 802.3af Power over Ethernet / PSE<br>IEEE 802.3at Power over Ethernet Plus / PSE |
| PoE Power Supply Type | Mid-Span |
| Power Pin Assignment | 4/5(+), 7/8(-) |
| PoE Power Output | Per Port 56V DC, 300mA. Max. 15.4 watts (IEEE 802.3af)<br>Per Port 56V DC, 600mA. Max. 30 watts (IEEE 802.3at) |
| PoE Power Budget | 60 watts |
| Number of 802.3af PD Class 0, 1, 2, 3 can be powered | 4 |
| Number of 802.3at PD Class 1, 2, 3 can be powered | 4 |



| | |
|---|---|
| Number of 802.3at PD Class 0, 4 can be powered | 2 |
| Standard Conformance | |
| EMI Safety | FCC Class A, CE |
| Standard Compliance | IEEE 802.3 Ethernet<br>IEEE 802.3u Fast Ethernet<br>IEEE 802.3x Flow Control<br>IEEE 802.3af Power over Ethernet<br>IEEE 802.3at High Power over Ethernet |
| Environment | |
| Operating Environment | 0 ~ 50 degrees C |
| Storage Environment | -10 ~ 70 degrees C |
| Operating Humidity | 5 ~ 95%, relative humidity, non-condensing |
| Storage Humidity | 5 ~ 95%, relative humidity, non-condensing |



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User's Manual

PoE Switch
▪ ST-5HP4

**www.beward.ru**

# 4-Port 10/100Mbps 802.3af/at PoE + 1-Port 10/100Mbps Desktop Switch

**BEWARD Co., Ltd**


## 8. Customer Support

Thank you for purchasing BEWARD products. You can browse our online FAQ resource on BEWARD Website first to check if it could solve your issue. If you need more support information, please contact BEWARD switch support team.



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