Managed PoE+ Gigabit Switches
User Manual
FS.COM provides a limited warranty for twelve (12) months from purchaser's receipt of the equipment represented in this data sheet against defective design or workmanship.

FiberStore provides high quality products, and try to meet customers' requirements, however, in few cases, you are not satisfied with our goods, don't worry about that, you can enjoy a 60 Days Return & Exchange Policy in FiberStore, even you don't need to worry about the shipping fee when you decide to exchange or return your items. What's more, if you have some questions about usage of your purchase, you can write an email to our service@fs.com. Tell us your problems, then we will do our best to help you.

Caution: Multiple power sources may be provided. To de-energize, all power connections need to be removed, including RPS cable if provided.

Caution: No user serviceable parts inside. Must be serviced by technically qualified personnel.
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1.1 Product Description

Fiberstore’s full Gigabit Ethernet PoE switches can provide seamless connection for 10/100/1000M Ethernet network and equipped with PoE function, can be used as Ethernet power supply device (PSE). It can automatically identify the connected devices whether compatible with IEEE 802.3af or IEEE 802.3at standards, and then supply power for them. The Gigabit PoE switch makes it easier to deploy wireless access point (AP) and IP-based terminal network equipment with PoE technology.

1.2 Paraphrase of PoE Technology

PoE Technology is Power over Ethernet technology. It is referring to transfer both Ethernet data and and DC Power at the same time for IP Phone, Wiross AP, IP-based camera. These devices which receive DC power are called powered devices (PDs).
2.1 Product Characteristics

- Supports both IEEE 802.3af and 802.3at, and every port PoE configuration function.
- L2+ features provide better manageability, security, QoS, and performance.
- Jumbo frames support up to 9.6K kilobytes.
- G.8032, support <50ms industrial quick ring protection.
- Support spanning tree STP (802.1D) and RSTP (802.1W).
- Support enhanced management through WEB, CLI, TELNET, SSH, SNMP.
Chapter 3 Panel & Indicator Description

3.1 Hardware Overview

S1250-8T2F & S1130-8T2F Managed Switches

Front Panel

Back Panel

Side Panels

8 Gigabit Ethernet  Console Port  2 SFP Ports

Power Supply

Ventilation Holes

For Technical Support: www.fs.com/service.html
### Chapter 3 Panel & Indicator Description

**RJ45 LEDs, System LEDs, SFP LEDs Status & State**

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Indicator: SYS</strong></td>
<td>Green LED ON</td>
<td>System work as normal</td>
</tr>
<tr>
<td></td>
<td>Green LED Blink</td>
<td>System work as normal S1130-8T2F &amp; S1250-8T2F</td>
</tr>
<tr>
<td></td>
<td>Green LED OFF</td>
<td>System abnormal or power off</td>
</tr>
<tr>
<td><strong>PoE Indicator: PoE</strong></td>
<td>Green LED ON</td>
<td>Connected PD device, powering properly</td>
</tr>
<tr>
<td></td>
<td>Green LED Blink</td>
<td>Short circuit or current overload</td>
</tr>
<tr>
<td></td>
<td>Green LED OFF</td>
<td>No connected PD or power off</td>
</tr>
<tr>
<td><strong>Link Indicator: Link</strong></td>
<td>Green LED ON</td>
<td>Data transmission properly</td>
</tr>
<tr>
<td></td>
<td>Green LED Blink</td>
<td>Connection is OK and data is being sent and received</td>
</tr>
<tr>
<td></td>
<td>Green LED OFF</td>
<td>No connected device</td>
</tr>
<tr>
<td><strong>SFP Uplink Indicator</strong></td>
<td>Green LED ON</td>
<td>Data transmission properly</td>
</tr>
<tr>
<td></td>
<td>Green LED Blink</td>
<td>Connection is OK and data is being sent and received</td>
</tr>
<tr>
<td></td>
<td>Green LED OFF</td>
<td>No data connected</td>
</tr>
</tbody>
</table>

**Table 3-1**

**Note:** Please confirm that the all PoE ports of PD devices are complying with IEEE802.3at standard.

**Power:** 48 VDC (46–57VDC), (More than 50VDC recommended when used PoE+ output)

**PoE Port:** The PoE ports support PoE function, which can transmit data and power simultaneously if connected matching device. The LED lights on the front panel can show working status of each port.
Chapter 3 Panel & Indicator Description

S1400-24T4F & S1600-24T4F Managed Switches

Front Panel

24 Port Gigabit Ethernet RJ45 Ports
Console Port
2 Combo Ports
2 SFP Ports

Back Panel

Power Supply
Power Switch

Side Panels

Fans
### Chapter 3 Panel & Indicator Description

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Indicator: PWR</strong></td>
<td>Yellow LED ON</td>
<td>Normal</td>
</tr>
<tr>
<td></td>
<td>Yellow LED OFF</td>
<td>Power OFF</td>
</tr>
<tr>
<td><strong>System Indicator: RUN</strong></td>
<td>Yellow LED ON</td>
<td>System working properly</td>
</tr>
<tr>
<td></td>
<td>Yellow LED OFF</td>
<td>System working NOT properly</td>
</tr>
<tr>
<td><strong>PoE Indicator: PoE</strong></td>
<td>Green LED ON</td>
<td>Connected PD device, working properly</td>
</tr>
<tr>
<td></td>
<td>Green LED Blink</td>
<td>Short circuit or current overload</td>
</tr>
<tr>
<td></td>
<td>Green LED OFF</td>
<td>No connected PD or power OFF</td>
</tr>
<tr>
<td><strong>Link/ACT Indicator</strong></td>
<td>Green LED ON</td>
<td>1000M corresponding port has data transmission</td>
</tr>
<tr>
<td></td>
<td>Green LED Blink</td>
<td>1000M port connected &amp; data send/receive properly</td>
</tr>
<tr>
<td></td>
<td>Green LED OFF</td>
<td>No connection</td>
</tr>
<tr>
<td></td>
<td>Yellow LED ON</td>
<td>10/100M corresponding port has data transmission</td>
</tr>
<tr>
<td></td>
<td>Yellow LED Blink</td>
<td>10/100M port connected &amp; data send/receive properly</td>
</tr>
<tr>
<td></td>
<td>Yellow LED OFF</td>
<td>No connection</td>
</tr>
<tr>
<td><strong>SFP Indicator</strong></td>
<td>Green LED ON</td>
<td>Corresponding port has data transmission</td>
</tr>
<tr>
<td></td>
<td>Green LED Blink</td>
<td>Connect correctly &amp; data send/receive properly</td>
</tr>
<tr>
<td></td>
<td>Green LED OFF</td>
<td>No connection</td>
</tr>
</tbody>
</table>

Table 3-2
Chapter 3 Panel & Indicator Description

S1600-48T4S Managed Switch

Front Panel

![Front Panel Diagram]

- 48 Gigabit Ethernet RJ45 Ports
- 4 SFP+ Ports
- Console Port

Back Panel

![Back Panel Diagram]

- Power Supply
- Power Switch

Side Panels

![Side Panels Diagram]

- Fans
# Chapter 3 Panel & Indicator Description

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<tbody>
<tr>
<td>Power Indicator: PWR</td>
<td>Yellow LED ON</td>
<td>Normal</td>
</tr>
<tr>
<td></td>
<td>Yellow LED OFF</td>
<td>Power OFF</td>
</tr>
<tr>
<td>System Indicator: RUN</td>
<td>Yellow LED ON</td>
<td>System working properly</td>
</tr>
<tr>
<td></td>
<td>Yellow LED OFF</td>
<td>System working NOT properly</td>
</tr>
<tr>
<td>PoE Indicator: PoE</td>
<td>Green LED ON</td>
<td>Connected PD device, working properly</td>
</tr>
<tr>
<td></td>
<td>Green LED Blink</td>
<td>Short circuit or current overload</td>
</tr>
<tr>
<td></td>
<td>Green LED OFF</td>
<td>No connected PD or power OFF</td>
</tr>
<tr>
<td>Link/ACT Indicator</td>
<td>Yellow LED ON</td>
<td>10/100/1000M corresponding port has data transmission</td>
</tr>
<tr>
<td></td>
<td>Yellow LED Blink</td>
<td>10/100/1000M port connected &amp; data send/receive properly</td>
</tr>
<tr>
<td></td>
<td>Yellow LED OFF</td>
<td>No connection</td>
</tr>
<tr>
<td>SFP Indicator</td>
<td>Green LED ON</td>
<td>Corresponding port has data transmission</td>
</tr>
<tr>
<td></td>
<td>Green LED Blink</td>
<td>Connect correctly &amp; data send/receive properly</td>
</tr>
<tr>
<td></td>
<td>Green LED OFF</td>
<td>No connection</td>
</tr>
</tbody>
</table>

**Table 3-3**

**Note:** Please confirm that the all PoE ports of PD devices are complying with IEEE802.3af/at standard.

**Power Port:** Built-in power switch series do not need external power adapter, plug power cable to AC100 ~ 240V, 50/60Hz.

**PoE Port:** With function of Power over Ethernet, which can transmit data and power simultaneously if connected matching device. The LED lights on the front panel can show working status of each port.

**Ethernet Port:** Besides PoE ports, other ports are normal self-sensing Ethernet RJ45 ports which support Auto MDI/MDIX, plug and play. The LED lights on the front panel can show working status of each port.
Chapter 4 Application Connection Diagram

4.1 A Typical Application Case for PoE Switches

Supply power for monitoring equipments through PoE/PoE+ switches (power sourcing equipments included), and monitor the data image back to NVR and display it. (equivalent to a monitoring center)

Figure 4-1
5.1 Installation Precautions

Please install to the supported devices.

Please confirm the following things before installation:

1. If the PoE port meets the power requirement of the connecting devices.
2. If the PoE standard requirement and power supply matches with the power receiving device (1/2+, 3/6-(End-span)/4/5+,

7/8 (Mid-span)).
3. If the output power of the matched power adapter is compatible with the specification in the label of the PoE E switch.

5.2 Installation Procedure

Please install the PoE switch according to the following steps:

1. Put the PoE switch on the surface of a large and stable table, or professional industrial installation rack mount.
2. Connect the power outlet through the power cable.
3. Connect the network devices to the PoE switch port through network cable.

Note:

1. Please do not put heavy products on the PoE switch, and please ensure good ventilation environment for the PoE switch.
2. Please cut off the power first before plugging the power adapter.

Power

Connect the power cable, plug it into power socket, turn on the power, then the switch will automatically initialize, and LED lights status will display as following:

1. Except the PoE port lights, all the other lights will go through the process of “on-off-on-off”, which means the system restoration is successful.
2. Power LED remains lit.

Note: If initialization is inconsistent with the above, please check the power.
Connect to Power

The Gigabit PoE switch uses AC 100–240V, 50/60Hz power supply.

1. Please check if the power supply specification matches with the required;
2. Connect the power cable to AC power socket, shown as in the following pictures.

![Power Supply Installation Display](image1)
![Hangers Installation Display](image2)
![Rack Installation Display](image3)

Figure 5-1

After installation, please check:

If there is enough space for heat sink; if the power socket is suitable for switch specification; if the power, switch and rack are properly grounded and if the connection between switch and other network equipments are normal.
Chapter 6 Package Contents & Terms of Use

6.1 Package Contents

Please kindly check the following items:

- M3 Screw
- Rack Mount Bracket
- Power Cord
- Product Warranty Card
- PoE Switch

Note: If any shortage or damage found, please contact us in time.

6.2 Terms of Use

All Ethernet cabling runs must use CAT5 (or above). It is the customer’s responsibility to follow local country regulations, including operation within legal frequency channels, output power, indoor cabling requirements, and Dynamic Frequency Selection (DFS) requirements.
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