**Unmanaged 8-Port 10/100/1000T + 4-Port 1000X SFP Gigabit Ethernet Switch**

## Features

- 8x10/100/1000Base-T ports, 4x1000Base-X SFP ports
- Supports conversion between 10/100/1000Base-T and 1000Base-X
- Supports IEEE802.1d Spanning Tree protocol to make networking easier
- Support QoS to ensure efficient operation of the network
- Support broadcast storm suppression
- Support customized 5~12VDC wide voltage input
- Supports ultra-long data packet transmission up to 9216 bytes
- Supports low-latency transmission and also has isolation protection function
- Simple to use, plug and play, no setup required
- Small size, suitable for installation in various places
- It adopts double-rib heat dissipation design and built-in heat sink to ensure stable operation for a long time

## Overview

Gigabit Ethernet Switch, featuring 8 Gigabit Ethernet ports and 4 SFP port, provides Gigabit fiber uplink capability and non-blocking wire-speed performance for various applications that need long-distance data transmission. This metal switch is easily deployed on the desktop or in the cabinet to make the network placement as convenient as possible. The switch acts as a high-performance edge device for FTTx solutions.

With 4 mini-GBIC 1000BASE-SX/LX SFP (Small-Form Factor Pluggable) interface support, the deployed distance of the switch can be extended from 550 meters (via multi-mode fiber) to 10/20/30/40/50/70/120 kilometers (via single- mode fiber). Thus, building a network solution of FTTH (Fiber to the Home), FTTC (Fiber to the Curb) for ISPs or FTTB (Fiber to the Building) for enterprises becomes so easy to users when long-distance deployment is employed.

The switch can handle extremely large amounts of data in a secure topology linking to a metro switch, backbone or high-capacity server. It can not only extend the transmission distance, but also has many advantages such as isolation protection, good data confidentiality, stable operation, and easy maintenance, thus effectively avoiding threats to communication equipment such as lightning strikes, surges, and electromagnetic interference in harsh environments.

## Application


## Specifications

| **Hardware Specifications** | |
|---|---|
| Ethernet Ports | 8 x 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports |
| SFP/mini-GBIC Slot | 4 x 1000BASE-X |
| Network Cables: | **Twisted-pair**<br>10BASE-T: 2-pair UTP Cat. 3,4,5, up to 100m<br>100BASE-TX: 2-pair UTP Cat. 5, up to 100m<br>1000BASE-T: 4-pair STP Cat 5 up to 100m<br>**Fiber-optic Cable**<br>1000BASE-SX:<br>50/125 μm or 62.5/125 μm multi-mode fiber cable, up to 220/550m/2km.<br>1000BASE-LX:<br>9/125 μm single-mode cable, providing long distance for 10/20/40/80/120km (vary on SFP module) |
| Dimension (W x D x H) | 131 x 104 x 28 mm |
| Weight | 598g |
| Power Requirement | DC 5V, 2A external power |
| Power Consumption | System on: Max. 1.5 watts/5.12 BTU @ DC 5V |
| | Ethernet Full Loading: Max. 7 watts/23.88 BTU @ DC 5V |
| Enclosure | Metal |
| **Switch Specifications** | |
| Switch Processing Scheme | Store-and-Forward |
| Address Table | 2K entries |
| Shared Data Buffer | 1.5Mbits |

| | |
|---|---|
| Flow Control | Back pressure for half duplex |
| | IEEE 802.3x pause frame for full duplex |
| Switch Fabric | 14Gbps |
| Throughput (packet per second) | 8.9Mpps |
| Jumbo Packet Size | 9K |
| **Standards Conformance** | |
| Standards Compliance | IEEE 802.3 Ethernet |
| | IEEE 802.3u Fast Ethernet |
| | IEEE 802.3ab Gigabit Ethernet |
| | IEEE 802.3z Gigabit Fiber Ethernet |
| | IEEE 802.3x Full-duplex flow control |
| | IEEE802.1q VLAN |
| | IEEE802.1pQoS |
| | IEEE802.1d Spanning Tree |
| | IEEE 802.3az Energy Efficient Ethernet (EEE) |
| **Environment** | |
| Temperature | Operating: 0~50 degrees C |
| | Storage: -40~70 degrees C |
| Humidity | Operating: 10~90% (non-condensing) |
| | Storage: 5~90% (non-condensing) |
| **Regulatory Approvals** | |
| Certificates | ISO9001, CE, RoHS, FCC |

## Order Information

| Model | Description |
|---|---|
| 20125896 | Unmanaged 8-Port 10/100/1000T + 4-Port 1000X SFP Gigabit Ethernet Switch |
| Mounting Options: | ► Desktop |
| Power Options: | ► 2A 5VDC Power Supply |

**Dimension (unit: mm)**