

Introduction

This unmanaged 5-port Gigabit Ethernet desktop switch is ideal to build high-performance switched workgroup networks.

The device has four 10/100/1000Base-T (RJ-45) ports and one SFP slot according to 1000Base-X. The RJ-45 ports support auto-crossing and auto-negotiation. All ports are supporting full Gigabit speed and are configured automatically.

Features

- Compact, cost effective, fan less Gigabit Ethernet switch
- 4x 10/1000/1000Base-T + 1x 1000Base-X SFP slot
- Store-and-forward architecture
- 4K MAC addresses
- Flow Control and Back-pressure acc. IEEE802.3x
- Auto-negotiation for all RJ-45 ports
- Automatic identification of MDI/MDI-X auto-crossing
- 2M buffer memory built in chip
- External power adapter

Packing list

Please check the following items in the package before installing the switch.

5-port Gigabit Ethernet Switch	1 pc.
AC/DC adapter (external)	1 pc.
Rubber pads	4 pcs.
User manual	1 pc.

Please contact your reseller immediately for any loss or damage to the above items.

Installation

RJ-45 Interface

The RJ-45 ports support min. CAT 5 twisted-pair cables with a maximum length of 100 meter. A configuration of the RJ-45 interface is not necessary. Due to the auto-negotiation feature, port speed (10/100/1000 Mbps) and duplex mode (full or half-duplex) are set automatically. Furthermore, auto-crossing is supported; this means that crossed or straight patch cords can be used independent on the opposite RJ-45 port.

Fiber interface

The SFP slot supports Gigabit Ethernet transceivers. MICROSENS offers several suited single mode or multimode transceivers for different distances.

Power interface

The 5 VDC power socket is located at the rear panel side. A suitable AC/DC power adapter with EURO connector is included in the delivery. Other power connectors are available on request.

Connection

Insert the SFP transceiver into the SFP slot. Ensure that the SFP type matches to the fiber type, distance and transceiver at the remote side. Connect the device to the external power supply. Now plug the fiber connectors into the SFP transceiver.

After that, all network devices with copper interfaces can be connected to the RJ-45 ports. Observe the corresponding Link LED in order to ensure that the link is established correct.

The speed of the TP-link is indicated by the TP Speed LED. Check that the maximum speed supported by the end device is shown by the LED. If this is not the case, please configure the end device manually to the maximum speed.

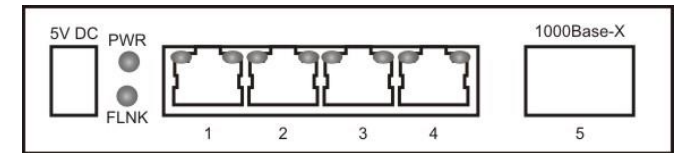


Figure 1: Rear panel view

LEDs

LED	On	Off
PWR (green)	Power supply is ok	Power supply has failed
FLNK (green)	Fiber is connected flashing for data transmission	Fiber isn't connected
TP Speed (left one/amber)	1000M	10M or 100M
TP Link (right one/green)	Network is connected flashing for data transmission	Network isn't connected

Technical parameters:

1. Standard compliance (Ethernet):
 - IEEE 802.3 10Base-T Ethernet
 - IEEE 802.3u 100Base-TX Fast Ethernet
 - IEEE 802.3ab 1000Base-T Gigabit Ethernet UTP
 - IEEE 802.3z Gigabit Ethernet over Fiber
 - IEEE 802.3x Flow Control and Back-pressure
2. Connectors:
 - 4x 10/100/1000Base-T UTP RJ-45
 - 1x 1000Base-X SFP slot for pluggable SFP transceiver
3. Power input: 5 VDC; 2 A
4. Operating temperature: 0..40 °C
5. Relative humidity: 5..90%
6. TP cable: min. Cat5 UTP
7. Dimensions: 158 x 95 x 27 mm

Cautions:

1. This product is suitable for indoor application only.
2. Put on the dust cover of fiber interface when not used.
3. It is forbidden to look into the active fiber optic ports while dust caps are removed, in order to avoid eye damages!

MICROSENS

Gigabit Ethernet Switch

User Manual

MS453510-V2

Do not use this device until you read this manual carefully.