10/100 Fast Ethernet Switch

Installation Manual

DS5102E
DS8100
DS16100

Introduction

The StarTech.com Fast Ethernet Switches increase the bandwidth of your network. It will extend your connection distance, segment network traffic, or bridge both 10BaseT and 100BaseTX together. Each switch has one set of status LEDs for each of the 5 half/full duplex RJ45 ports and will indicate nerwork connections, activity, collisions, and full duplex mode at a glance.

Features

1. Fully compliant with IEEE 802.3 10BaseT Ethernet and 802.3u 100BaseTX Fast Ethernet Standards.
2. Simple and economical way to bridge 10BaseT network and 100BaseTX network.
3. Easily connects and segments Fast Ethernet hubs or segments.
4. All RJ45 ports support 10BaseT/100BaseTX and Full-Duplex/Half-Duplex Auto-negotiation function.
5. Supports store-and-forward switching architecture.
6. Wall mountable.

Specifications

Standards	IEEE 802.3, IEEE 802.3u
Connectors	RJ45
Dimensions	5 port: 127 x 83 x 30 mm / 5.0 x 3.27 x 1.18 in. 8 port: 187 x 100 x 30 mm / 7.4 x 3.94 x 1.18 in. 16 port: 290 x 100 x 30 mm / 11.4 x 3.94 x 1.18 in.
Weight:	5 port: 180g / 0.40lb. 8 port: 370g / 0.81lb. 16 port: 460g / 1.01lb.
Operating Temperature	32~131 degrees F (0~55 degrees C)

Operating Humidity	10~95% (non-condensing)
Buffer	256 kB
Warranty	2-years

LED

LED	Color	Status	Description
PWR (Power)	Green	Lit	Power is supplied
		Off	No power
LNK/ACT (Link/Activity)	Yellow *(100Mbps DS16100 & DS5102E only)*	Lit	A valid link is established
		Flash	Data packets received
		Off	No link is established
	Green *(indicates 10Mbps for DS16100 & DS5102E, general for DS8100)*	Lit	A valid link is established
		Flash	Data packets received
		Off	No link is established
COL/FDX (Collision/Full Duplex)	Yellow	Lit	This port is running at Full Duplex
		Flash	Collision detected in this segment
		Off	No collision
Speed (10/100 Mbps) *DS8100 only*	Yellow	Lit	This port is running at 100 Mbps
		Off	This port is running at 10 Mbps

Installation

1. Connect a Category 5 patch cable to the RJ45 jack on your computer's network card. (The RJ45 jack looks like an over-sized phone jack).
2. Connect the other end of the cable to a numbered port on the hub (not to the uplink port).
3. Once the network cable is connected to north ends and the

attached network device is powered on, the green LNK/ACT LED light should be lit.

4. Repeat these steps for the remainder of the computers you would like to network.

An uplink port is used to connect to another hub/switch using regular straight-through UTP cable.

Troubleshooting

1. Power LED is not lit

Check if the power cord is properly connected to the external power adapter and the power outlet. Make sure the DC power jack is firmly plugged into the power socket of the switch.

2. 100M Link/Activity (Yellow) is not lit when connected to 100Mbps device

Check the power switch of the network device attached to the switch; make sure it is turned ON.

Check the network cable; make sure it is properly connected to the switch and the network device.

Check the network cable; make sure the UTP cable complies with EIA/TIA 568 and Category 5 specifications.

If the RJ45 ports are used to connect to a hub, make sure you are connected to an uplink port and not a regular port. If RJ45 ports are used to connect to a hub's regular port, make sure the crossover cable is used.

3. Collision LED flashes constantly

Remove all the network cables; connect the cables back one by one to isolate the source of the collision.

Check the network cable, inferior cable quality will result in excessive collision and error packets.