DIGISOL™

Quick Installation Guide

16-PORT 10/100MBPS ETHERNET UNMANAGED SWITCH WITH EXTERNAL ADAPTER

DG-FS1016D-A

16 PORTS | UP TO 200 Mbps

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Package Contents

The following items should be present in your package:

- 16-Port 10/100Mbps Ethernet Unmanaged Switch
- Power Adapter
- Quick Installation Guide

Make sure that the package contains above items. If any of the listed items is damaged or missing, please contact your retailer immediately.

Product Overview

DIGISOL DG-FS1016D-A 10/100Mbps Ethernet Unmanaged Switch is designed to allow simultaneous transmission of multiple packets via an internal high-speed data channel.This means that it can partition a network more efficiently than bridges or routers in most environments. This 16 Port Switch is a highly reliable network Switch and is the ideal device for bridging Ethernet to Fast Ethernet workgroups or networks. Simple and cost-effective, the 16 Port Switch supports IEEE802.3 10Base-T Ethernet and IEEE802.3u 100Base-TX Fast Ethernet. The 16 Port Switch is therefore being recognized as one of the most important building blocks for today's networking technology.

The top panel of the DG-FS1016D-A provides LEDs for easy recognition of the Switch operation status and for troubleshooting. These LED's display the power and link status.

Product Features

- Complies with the IEEE802.3 10Base-T Ethernet and IEEE802.3u 100Base-TX Fast Ethernet standard.
- 16 10/100Mbps Auto-Negotiation Ports.
- Supports Auto MDI/MDI-X function.
- Automatic Source MAC Address Learning and Ageing.
- IEEE802.3x flow control for Full-duplex operation.
- Back Pressure function for Half-duplex operation.
- Supports MAC address auto-learning and auto aging.
- LED indicators for simple diagnostics and management.
- Non blocking switching architecture enables full wire-speed packets forwarding and filtering.
- Fanless design ensures quiet operation.
- Plug-and-play design simplifies installation.

System Requirements

- Network Card for each PC or Server.
- Network Cable Min. CAT5 for 100Mbps.

Product Specifications

- Standard:
  IEEE 802.3 10Base-T Ethernet
  IEEE 802.3u 100Base-TX Fast Ethernet

- Network Cable:
  100Base-TX - UTP category 5, 5e cable
  　　　　　EIA/ TIA-568 100U STP
  10Base-T - UTP category 3, 4 or 5 cable
  　　　　　EIA/ TIA-568 100U STP

- Protocol: CSMA/CD

- LED indicators:
  System - Power LED.
  Individual port - LAN1-LAN16

- Temperature:
  Operating: 0℃ to 40 ℃
  Storage: -20℃ to 70℃

- Humidity:
  Operating: 10% to 90% RH
  Storage: 5% to 90% RH

Hardware Description

This section describes the hardware features of the 16 Port Ethernet Switch. For easier management and control of the Switch, familiarize yourself with its display indicators and ports. Top panel illustrations in this section display the unit LED indicators. Before connecting any network device to the Switch, read this section carefully.

Top Panel

The unit top panel provides a simple interface for monitoring the Switch. It includes a power indicator and Individual LED's for each LAN port (1-16).

LED Indicators

LED	Status	Indication
PWR	On	The switch is powered on.
	Off	The switch is powered off.
1-16	On	The corresponding port is connected to a network device.
	Flashing	Data is transmitting through the corresponding port.
	Off	No device is connected to the corresponding port. (Port is disconnected)

Rear Panel

The rear panel of the 16-port Ethernet Switch indicates 16 RJ-45 LAN ports.

Port	Description
Power	The power connector is used in conjunction with the power adapter, to power the unit.
LAN (1-16)	16 Auto-negotiation Ethernet ports used to connect your network devices. The working status can be indicated by the corresponding LED's on the top panel.

Hardware Installation

- Connect one of the Ethernet ports on the switch to your router's LAN port with an Ethernet cable.
- Connect your computer to one of the other ports on the switch with an Ethernet cable.
- Plug the provided Power Adapter into the power jack of the switch and the other end to a standard electrical socket.

Note:

- The cable distance between 16 Port Switch and other IEEE802.3 compatible network device should not exceed 100 meters.

- Ensure that the wiring is as per EIA/TIA standard.

- It can be used with Category 3/4/5 cable in 10 Mbps operation. For reliable network operation at 100Mbps, you must use an Unshielded/Shielded Twisted-Pair (UTP/STP) Category 5 cable, or better Data Grade cabling. While a Category 3 or 4 cable may initially seem to work, it will soon cause data loss.

- All kinds of IEEE802.3 compatible network device (Hub, Switch, PC) can connect to the Switch by using straight-through cables or crossover cables because of Switch's auto MDIX function.

Hardware Troubleshooting

This section contains information to help solve issues faced during installation. If the 16 Port Switch is not functioning properly, then ensure that the switch was set up according to instructions in this QIG.

- **The Power LED is not ON**
  Solution:
  a. Check if the power adapter is well connected. Try to unplug and plug back the power adapter to the LAN Switch or try another power outlet.

- **The LED's are not ON**
  Solution:
  a. Check the cable connections.
  b. Make sure the cable distance between 16 Port Switch and other IEEE802.3 compatible network device should not exceed 100 meters.
  c. Make sure the network configuration of the connecting device is correct, and network card and drivers are installed correctly.

- **Performance is bad**
  Solution:
  a. Check the status of the Ethernet Switch. If the Ethernet Switch is set to full duplex on one device and the partner is set to half duplex, then the performance will be poor.
  b. Make sure the cable between the switch and other IEEE802.3 compatible network device is Category 5 UTP or better.

- **Some stations cannot talk to other devices on the network**
  Solution:
  a. Check status of the LED's to make sure devices are linked.
  b. Ensure that the workstation's network configuration is correct,

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Limited Lifetime Warranty

This Product is covered under DIGICARE Limited Lifetime Warranty program backed by DIGICARE Service Center. To avail this Limited Lifetime Warranty offer, customer needs to contact DIGICARE's Technical Assistance Center for the same. You may be asked to provide proof of purchase of product for warranty claim of defective product. Please refer website www.digisol.com for the detailed support terms & conditions and support process.

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NOTES

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