16/24-Port Gigabit Desktop Switch

Manual

DN-80112 • DN-80113

Introduction

The **DN-80112/DN-80113** is an Unmanaged Gigabit Ethernet rack-mount switch that provides wire connection. It provides Gigabit Ethernet switching function, which allows high-performance and backward compatible to all speed connections, 10Mbps, 100Mbps and 1000Mbps Ethernet networks. The **Ethernet Switch** delivers all the advantages of a switching hub in a standard 1U size of metal enclosure and it is ideal for any enterprise office or data server room. There are special rubber feet and rack-mount kit accessory included for user's convenience.

This switch provides **16** or **24** auto-sensing 10/100/1000Mbps Ethernet RJ-45 ports which automatically detect the speed of the devices that you plug into them. This switching function allows 10Mbps, 100Mbps, and 1000Mbps Full/Half-duplex devices to communicate on the same network without having to replace any infrastructure. This flexible feature allows your network a timely, economical migration to 1000Mbps Gigabit Ethernet.

Key Features

- Conforms to IEEE802.3, 802.3u, 802.3x, 802.3ab
- Automatic MDI/MDIX crossover for all ports
- N-Way Auto-negotiation for 10/100/1000Mbps transmissions
- 1U, 19” Rack mountable
- Store-and-Forward switching architecture
- Auto-detection of full/half-duplex mode in all ports
- Plug-and-Play configuration auto address learning
- LED indicators for Power, Link/activity

Package Contents

- Ethernet Switch
- AC power cord
- User’s manual
- Four (4) adhesive-backed rubber feet
- Two (2) rack-mount pallet and Six (6) screws

IMPORTANT: If any piece is missing or damaged, please contact your local dealer or reseller for service.

Product Specifications

DN-80112 (16-Port 10/100/1000Base-TX Gigabit Ethernet Switch)

Ports:	16-Port 10/100/1000Base-TX
MAC Address:	8K Mac address table
Jumbo Frame:	9KB
LED Indicator:	Per port: Link/Activity
	Per unit: Power
Dimension:	440mm x 200mm x 44mm (W x D x H)
Operating Temp:	0°C to 40°C
Operating Humidity:	10% to 90% (Non-condensing)
Power Consumption:	15 Watt @ AC 240V/60Hz (Maximum)
EMI:	CE Class A

DN-80113 (24-Port 10/100/1000Base-TX Gigabit Ethernet Switch)

Ports:	24-Port 10/100/1000Base-TX
MAC Address:	8K Mac address table
Jumbo Frame:	9KB
LED Indicator:	Per port: Link/Activity
	Per unit: Power
Dimension:	440mm x 200mm x 44mm (W x D x H)
Operating Temp:	0°C to 40°C
Operating Humidity:	10% to 90% (Non-condensing)
Power Consumption:	20 Watt @ AC 240V/60Hz (Maximum)
EMI:	CE Class A

Hardware Description

The Front Panel

The front panel consists of LED Indications and 16/24 auto-sensing ports.

LED Indicators

Per Device: Power
Per Port: LINK/ACT (Link/Activity)

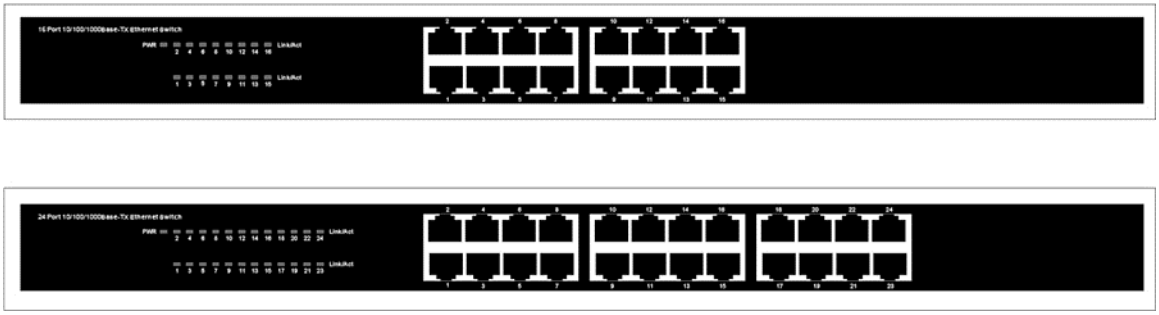

Figure 2. Front panel view of LED indications

LED	Status	Color	Description
Power	On	Green	The switch is supplied with suitable power.
LINK/ACT	On	Green	The port is connecting.
	Blinks	-	The port is receiving or transmitting data
	Off	-	The port is not linked successfully with the device.

RJ-45 Ports (Auto MDI/MDIX)

Auto-sensing ports of 10/100/1000 N-way for 10/100/1000-TX connections. In general, MDI means connecting to another Hub or Switch while MDIX means connecting to a workstation or PC. Therefore, Auto MDI/MDIX means that you can connect to another Switch or workstation without changing pin-to-pin or crossover cabling.

The Real Panel

The rear panel view of the Ethernet switch consists of an AC power connector.

Figure 3. Rear panel view of the switch

AC Power Connector

Plug the female connector into the switch and male connector into a power outlet.

Supports input voltages 100-240VAC, 50/60Hz.

Troubleshooting

The Switch can be easily monitored through panel indicators to assist in identifying problems. This section describes common problems you may encounter and possible solutions.

Power

If the power indicator does not light when the power cord is plugged in, you may have a problem with the power outlet or cord. However, if the power LED goes off after running for a while, check for loose power connections, power losses or surges at the power outlet. Turn off power, wait 30 seconds and turn power on again. If problem is still not resolved call for dealer's assistance

Diagnosing LED Indicators

If link indicator does not light after making a connection, check whether network interface (e.g., a network adapter card on the attached device), network cable, or switch port is defective. Be sure the cable is plugged into both the switch and corresponding device. Verify the proper cable type is used and its length does not exceed specified limits.

Cabling

Verify that the cabling type is correct. Make sure all cable connectors are securely seated in the required ports. Use only standard Unshielded Twisted-Pair (UTP), Category 3, 4, 5, or 5e cables. Use only Category 5 or 5e when connecting with Fast Ethernet. Make certain the maximum distance between the Switch and what it's connected to is 100 meters or less.

NOTE: Do not plug a standard telephone cord into an RJ-45 port. This may damage the switch

Hereby ASSMANN Electronic GmbH, declares that this device is in compliance with the requirements of Directive 2014/30/EU (EMC), Directive 2014/35/EU (LVD) and the Directive 2011/65/EU for RoHS compliance. The complete declaration of conformity can be requested by post under the below mentioned manufacturer address.

Note:
If wrongly installed or improperly used in the living area, the device can cause interference in radios and other electronic devices. Appropriate use is when the device, as far as feasible, is operated with shielded connection cables (with network products in addition to category 5 shielded cables and higher). The device has been tested and falls within the limits of class A computing equipment according to the requirements of EN 55032.

Warning:
This device conforms with test category A - it can cause radio interference in the living area; in this case the operator may demand that appropriate measures are implemented and arise for this reason. Declaration of conformity: The device fulfills the EMV requirements according to EN 55032 for ITE and EN 55024 class A. In this way, the fundamental protection requirements of the EMV-2014/30/EU guideline are fulfilled.

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