DIGITUS®
Professional

24-Port 10/100Mbps Ethernet Switch

Manual

DN-60021-1

Description

DN-60021-1 is 24-port 10/100Mbps unmanaged Ethernet Switch. Adopt professional IP1725 switch chips, the switch provides 24 x 10/100Mbps Auto-Negotiation RJ45 ports. All RJ45 ports support the Auto-MDI/MDIX function. Every port can works as uplink port or common port. The Switch delivers superior performance with improving workgroup, network bandwidth, increasing network node, providing greater flexibility, installation convenience. It is the best choice for increasing your speed.

Features

- Complies with IEEE802.3, IEEE802.3u standards
- 24 x 10/100Mbps Auto-Negotiation RJ45 ports supporting Auto-MDI/MDIX
- Supports IEEE802.3x flow control for Full Duplex mode and backpressure for half-duplex mode
- Supports MAC address auto-learning and auto-aging
- 4.8 Gbps Switching Capacity
- Store and forward Switching scheme
- Auto-negotiation ports provide smart integration between 10Mbps, 100Mbps hardware.
- LED indicators for monitoring power, link, activity
- 1U 19-inch rack-mountable matel case
- Internal universal power supply

Chapter 1 Introduction

Congratulations on your purchase of this 10/100Mbps switch. Instructions for installing and configuring this product can be found in this manual. Before you install and use this product, please read this manual carefully for full exploiting the functions of this product.

The 10/100Mbps switch is the perfect way of integrating 10Mbps Ethernet and 100Mbps Fast Ethernet devices. All 24-ports are auto speed negotiating, and have automatic MDI/MDI-X crossover detection, so you don't have to worry about the cable type. Each port independently negotiates for best speed and half- or full-duplex mode, for up to 200Mbps of bandwidth per port. Fast store-and-forward switching prevents damaged packets from being passed on into the network.

1.1 Features

- Twenty four 10/100BASE-T Ethernet Ports
- Support Auto-Negotiation for 10/100Mbps
- Support Auto-MDI/MDIX for each port
- Support Full/Half duplex transfer mode for 10/100Mbps
- Complies with IEEE 802.3, IEEE 802.3u
- Support Store-and-Forward switching method
- Support Wire-speed and non-blocking performance
- Support Address learning and aging
- Support Broadcast Storm Filtering Control
- Support Data Flow Control for enhanced transmission reliability
- Support 8K MAC addresses
- Standard 19’ Rack-mount size

1.2 Environments

- Storage Temperature: -40ºC ~70ºC
- Operating Temperature: 0ºC ~40ºC
- Storage Humidity: 5% ~90% RH Non-condensing
- Operating Humidity: 10% ~90% RH Non-condensing

1.3 Package

- One 10/100Mbps switch
- One Manual
- One AC Power cord 24-Port 10/100Mbps Ethernet Switch 5

Chapter 2 Installation

2.1 Front Panel LEDs

Power LED
This red indicator illuminates when the Switch is receiving power.

Link/Act
This green indicator illuminates steadily when a port is connected to a station successfully, If this green indicator is blinking, it indicates that a port is transmitting or receiving data on the network.

2.2 Back Panel Features

The power connector is located on the back panel of the switch.

AC Power Connector
This is the three pronged connector that support the power cord. Plug in the female connector of the provided power cord into this connector, and the male into a power outlet. Supported input voltages range from 100~240V AC at 50~60Hz.

2.3 Connecting Network Devices

To connect network devices to the Switch, follow these instructions.

1. Make sure all the devices you will connect to the Switch are powered off.
2. Connect a Category 5 Ethernet network cable to one of the numbered ports on the Switch.
3. Connect the other end to a PC or other network devices.
4. Repeat steps 2 and 3 to connect additional devices.
5. Plug in the female connector of the provided power cord into the power connector on the Switch’s back panel.
6. Plug in the male into a power outlet.
7. Power on the devices connected to the Switch. Each active port’s corresponding LED will light up on the Switch.

Specification

Model		DN-60021-1
Chipset		IP1725LF
Standards		IEEE802.3 10Base-T, IEEE802.3u 100Base-TX
Network Media (Cable)		10Base-T: UTP category 3, 4, 5 cable (maximum 100m) 100Base-Tx: UTP category 5, 5e cable (maximum 100m)
Number of Ports		24 x 10/100Mbps Auto-Negotiation ports
LED indicators	10/100M	Link/Act
	Other	Power
Transfer Method		Store-and-Forward
Switching Capacity		4.8G
MAC address table		8K
MAC Address Learning		Automatically learning, automatically Update
Frame Filtering and Forward Rate		10Mbps: 14880pps, 100Mbps: 148800pps
Environment		Operating Temperature: 0℃~40℃ Storage Temperature: -40℃~70℃ Operating Humidity: 10%~90% non-condensing Storage humidity: 5%~90% non-condensing
Power Supply/Consume		Input: 100-240V～50-60Hz 0.6A Consume: 6 W（MAX）

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