Product Design



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Overview

SG16D is a Gigabit Ethernet switch designed for general home or small office use. It provides 24 Gigabit ports, all ports support Auto MDI/MDIX for high-speed large file transfer. All ports support line-speed forwarding, Auto MDI/MDIX and Auto-negotiation, no need to worry about cable types, just plug and play. In addition, a toggle switch is provided for switching 3 different working modes, making SG16D a high-performance solution for your enterprise network.

Gigabit Transfer Speed

Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x standards, SG16D provides 16 gigabit ports with support of Auto-MDI/MDIX greatly expands network capacity and simplifies cable deployment.

Long-Range up to 250 m with Extend Mode

support 250 meters data transmission, Break the one hundreds meters transmission limit of traditional switches.

VLAN Mode

One click to divide traffic for specific ports for stability and security

IGMP Snooping

IGMP Snooping ensures the switch intelligently forward the multicast stream only to the appropriate subscribers.

Plug and Play

All the 16 RJ45 ports on SG16D allow plug and play for easy use, no configuration required. Also they could detect connected device and auto change to suitable speed.

Environmentally Protection

SG16D can extensively expand your network with less power and provide a longer product life. If no device connected, it will automatically power off ports to reduce power consumption.

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Features

- 16 *10/100/1000Mbps auto-negotiated RJ45 ports.
- Supports IEEE 802.3x flow control for Full Duplex mode and backpressure for Half Duplex mode.
- 32Gbps Switching Capacity.
- Auto-MDI/MDIX and Auto negotiation.
- 8K entry MAC address table and automatic address learning.
- Store and forward Switching scheme.
- Plug and Play.
- Support IGMP Snooping.
- Rack-mountable design.

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Specifications

General	
Chipset	- EN8853DU+EN8808QU
Standards	- IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x
Interface	- 16*10/100/1000Mbps auto-negotiation RJ-45 Ports (Auto MDI/MDIX)
Button	- Three-position toggle switch*1 (Default/VLAN/Extend mode)
Power Supply	- 100~240V AC, 60/50Hz,
LED Indicators	- 1*Power, Link/Act (1~16)
Dimensions(L x W x H)	- 200 x 118 x 44mm
MAC Address Learning	- Auto-learning, auto-aging
MAC Address Table	- 8K
Network Media	- 10BASE-T: UTP Cat 3, 4, 5 cable (100m, max) - 100BASE-TX: UTP Cat 5, 5e cable (100m max.) - 1000BASE-TX: UTP Cat 5, 5e cable (100m max.)
Backup Bandwidth	- 32Gbps
Transfer Method	- Store-and-Forward
Others	
Package Contents	- SG16D*1 - Power Cord*1 - Brackets *2 - Screws*6
Environment	- Operating Temperature: 0℃~40 ℃ (32 ℉ ~104℉) - Storage Temperature: -40℃~70 ℃ (-40 ℉ ~158℉) - Operating Humidity: 10%~90% non-condensing - Storage Humidity: 5%~90% non-condensing
Full load power consumption	-6.48W

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