

Intelligent Power over Ethernet Switch

SH2500

24-Port Power over Ethernet 10/100Mbps Switch

SH2500 is a 24-Port 10/100Mbps intelligent switch with 24-Port Power over Ethernet (PoE) function. It is easy to use and delivers the perfect combination of functionality. The provided Power over Ethernet ports can automatically detect the presence of IEEE 802.3af-compliant devices and will provide power through the ports. With integral power sourcing capability, it is the ideal choice for connecting to IP phones or devices requiring remote surveillance such as wireless access points and video cameras.

In addition to eliminating the need of additional power sources for each end point, SH2500 supports port-based VLAN. VLAN allows for better bandwidth utilization of segment voices and data networks, minimizing broadcast domains and better control of

voice network's performance. SH2500 provides 802.1p/Q for prioritizing voice packets and specific service types. The QoS support allows voice packets and other delay-sensitive applications to have better transmission.

SH2500 provides Auto-Negotiation and detects Ethernet speed automatically. It also supports MDI/MDIX and detects different interfaces automatically for easy plug and play. The administrator can manage and configure SH2500 from any network via a web browser.

Advanced Enterprise
IP Communication Solutions



Easy Deployment Designed for IP Communication

Key Features

- 24-ports 10/100Mbps supporting Auto-Negotiation.
- 24 PoE ports comply with 802.3af Power over Ethernet.
- Provide up to 15W for each PoE port and maximum of 320W for the system.
- Support PoE powered devices automatic detection function.
- Auto-MDI/MDI-X function.
- Up to 24 port-based VLAN Groups.
- Store-and-Forward packet transmission technology.
- Non-blocking Function.
- Web-based management.
- 4096 k MAC address table, self-learning, table aging every 300 ms.
- Two queue for QoS (1:2, 1:4, 1:8 or 1:16).
- 802.1p and port-based TOS priority.
- 256 bytes packet buffer.
- 802.3x flow control for full-duplex mode.
- Back-pressure flow control for half-duplex mode.
- Packet length up to 1536 bytes.
- Support port-setting for speed and flow control.

Application Diagram



SH2500 can detect different interfaces automatically.

The provided Power over Ethernet (PoE) ports can automatically detect the presence of IEEE 802.3af-compliant devices and will provide power through ports. SH2500 provides 15 Watts per port and can be connected to IP phone, WLAN access points, video cameras, and other PD devices.

System Specifications

PoE Standard	IEEE 802.3af
Power Current	Up to 15W per port
PD Detection	Automatic recognition of connected PD
PoE Pin Assignment	Power(+) pin 4 & pin 5 in RJ45, Power(-) pin 7 & pin 8 in RJ-45
Number of Ports	24 x 10/100M PoE Ethernet ports
Ethernet Standards	IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TXF ast Ethernet, IEEE 802.3x Full Duplex Flow Control
Protocol	CSMA/CD

Data Transfer Rate	Ethernet: 10Mbps (half-duplex), 20Mbps (full-duplex), Fast Ethernet: 100Mbps (half-duplex), 200Mbps (full-duplex)
AC Inputs	90-250V AC, 50-60 Hz
Power Consumption	Max. 22W (without PoE function), Max. 320W (with PoE function)
Temperature	0°C ~ 40°C (32°F ~ 104°F)
Humidity	8% ~ 90% (non-condensing)
Dimensions	65x270x440 mm (W x H x D)
Weight	5.3 kg

For more information, please visit

www.dsg.com.tw

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