SGR124W

24 port Gigabit Web Smart Managed Switch 20 1000BaseT Ports and 4 combo 1000BasT/SFP Ports

The SGR124W supports an array of features to create a more manageable and efficient network deployment. With the easy to use Web Management interface accessible through a web browser, you can configure the switch to maximize your network performance and security. Energy usage has also been taken into account with the design of the switch to support green Ethernet applications.

Key Features and Benefits

• Bandwidth Segmentation:

The SGR124W supports 24 active VLANs allowing the switch to be segmented into smaller networks to increase traffic loads to these segments. This helps decrease Broadcast and Multicast traffic to the network and allows for security by isolating traffic to where it belongs. This is ideal in the support of voice, video and data applications.

• Port Trunking:

With port trunking support multiple ports can be combined to create greater bandwidth between the switch with another switch or a server. This method creates a higher aggregate bandwidth for more data intensive areas of the network allowing for the reduction of data bottlenecks increasing overall network traffic.

• Prioritizing Traffic:

With the support of Quality of Service (QoS) the SGR124W allows for the prioritization of traffic so that more urgent or time dependent data can be delivered at a higher priority over data that is not as sensitive to time delays due to excess congestion of the network. 802.1p is supported for VLAN tag priority and DSCP on Layer 3 network framework.

• Power Saving:

The SGR124W complies with IEEE802.3az EEE Energy Efficient Ethernet Standard. The low energy components and the ability of the switch to reduce power to unused ports or ports that require less power due to cable length or load makes the SGR124W an active energy saving device.

• Management:

The SGR124W supports an easy to use Web Interface that graphically displays the switch so that configuration and management can be easily accessible. Remote management can also be accomplished through Simple Network Management Protocol (SNMPv1/v2c) offering multiple options for network management.

• Fanless Design:

The SGR124W is designed to dissipate heat effectively without the use of fans. This not only reduces the noise output of the unit but it also increases the reliability and MTBF.

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Revision 2.01

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Specifications

- **Performance**

Capacity in Millions of Packets /mpps (64-byte packets):	35.71
Switching Capacity in Gigabits /Gbps:	48

- **General**

Jumbo frames:	Frame sizes up to 9KB supported on Gigabit interfaces
MAC Table:	Up to 8K MAC addresses

- **Layer 2 Switching**

Trunking:	Static trunk (Link Aggregation) - Up to 8 groups - Up to 12 ports per group
VLAN:	Support up to 16 VLANs simultaneously (out of 4096 VLAN IDs) - 802.1Q tag-based VLAN - Port-based VLAN - Port Isolation - Management VLAN
IGMP v1/v2 snooping:	Limits bandwidth-intensive multicast traffic to only the requesters. Supports 64 multicast groups (source-specific multicasting is also supported)
Port mirroring:	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to N-1 (N is Switch's ports) can be mirrored to single destination port. A single session is supported.
Loop detection:	Supports the loop detection for easy and network problem solving.
Broadcast Storm Protection:	Prevents traffic on a LAN from being disrupted by a broadcast storm on aport.

- **Quality of Sevice**

Hardware Priority Queue:	Support 8 hardware queues
Scheduling:	Strict priority Queue assignment based on DSCP and class of service (802.1p / CoS)
Classification:	Port based; 802.1p VLAN priority based, DSCP based; DiffServ.

- **Management**

Web GUI interface:	Built-in switch configuration utility for browser-based device configuration(HTTP) supports configuration, maintenance and monitoring.
Dual Image:	Dual image provides independent primary and secondary OS files for backup while upgrading.
SNMP:	SNMP version 1, 2c with support for traps
Reset Button:	Provides device reboot and reset to default for recovery and maintenance.

- **Green Ethernet**

Link detection:	Compliant with IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns off power on Gigabit Ethernet RJ-45 port when detecting link down or idle of client. Active mode is resumed withoutloss of any packets when the switch detects the link up.
Cable length detection:	Adjusts the signal strength based on the cable length. Reduces the power consumption for cables shorter.

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Specifications

Interface

Ports:
- Total System Ports: 24 GbE
- RJ-45 Ports : 20 GbE
- UTP/SFP Combo: 4

Environmental Parameters

Dimensions (WXHXD):
- 442 x 44 x 170.3mm

Weight:
- 2.4Kg

Power:
- 100-240 VAC 50-60 Hz, internal, universal

Certification:
- CE Mark, FCC Part 15 Class A

Operating Temperature:
- 0°C - 40°C

Storage Temperature:
- -20°C - 70°C

Operating Humidity:
- 10% to 90%, relative, noncondensing

Package Contents

— Switch

— Power Cord

— Mounting Kit

— CD-ROM with user manual documentation

— QIG (Quick Install Guide)

Minimum Requirements

— Web browser: Mozilla Firefox V2.5 or later, IE V6 or later

— Category 5 Ethernet network cable

— TCP/IP, network adapter, and network operating system (such as Windows, Linux or Mac OS X) installed on each computer in network.

Warranty and Support

Warranty: 1 Year
Support: Free technical support (phone/email); Software support; Premium incident support.

Revision 2.01