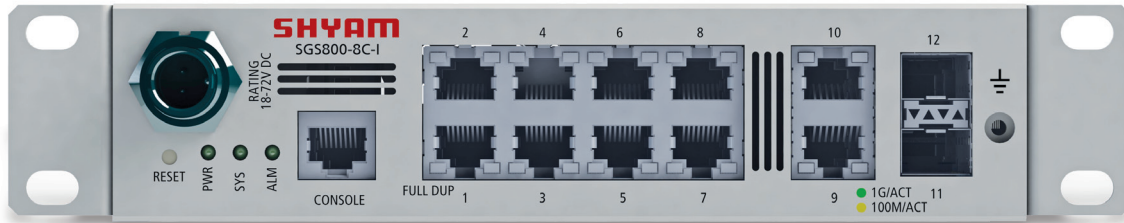


# GS800

## 8 Port Gigabit Ethernet Switch



**Gigabit Switch with 2 Fiber & 2 Copper Uplink Ports**

### INTELLIGENT & MANAGEABLE GIGABIT ETHERNET SWITCHES

Requirement of high-density throughput and bandwidth has become today's necessity in the age of critical data and high-speed communications. Shyam's Ethernet Switch GS800 Series of intelligent and manageable Layer-2 Switches are designed for high speed internet access for enterprises requiring gigabit Ethernet to the port/user/desktop.

Maximize the value of your network's Infrastructure Investment by smartly identifying and processing traffic flows from Layer-2 to Layer-4.

### FEATURES

**Shyam's Ethernet Switch GS800 Series of products bring all the benefits of performance, high-reliability, diversified QoS, comprehensive security control policies and convergence to your organization at a more competitive cost.**

- **Intelligent Switches:** Shyam's Ethernet Switch GS800 Series offers Layer-2 gigabit Ethernet Switching to optimize throughput in the most demanding enterprise network environments for critical data and high-speed communications. These switches are intelligent enough to identify and process traffic flows from Layer-2 to Layer-4.
- **High Reliability:** Shyam Ethernet Switch GS800 Series provides redundancy while eliminating loops in the network with Spanning Tree Protocol/Rapid Spanning Tree Protocol/Multiple Spanning Tree Protocol (STP/RSTP/MSTP). Furthermore, link aggregation offers a simple and cost-effective way to expand the bandwidth of a switch port.
- **Diversified Quality of Service Policies:** Quality of service (QoS) is an advanced traffic prioritization feature that preserves network performance as the amount of traffic increases by enabling you to assign various grades of service to different types of traffic.
- **Comprehensive Security Control Policies:** Shyam's Ethernet Switch GS800 Series employs 802.1x authentication with RADIUS server to identify users who attempt to access the network.
- **Power Over Ethernet:** PoE option is available with 15 watts on all 8 ports.

### HIGHLIGHTS

- Unique Combination of Copper & Fiber
- Power over Ethernet on All Ports with High Capacity External Power Adapter
- High Density Port Access
- Simplified Installation
- Layer 2 Manageable
- Ideally Suited for Enterprise
- Comprehensive Security Control Policies
- Diversified Quality of Service (QoS)
- Smart Negotiations
- L3/L4 ACL Support
- NNI/UNI Implemented on any Port
- RADIUS Support
- LACP Support
- SNMP
- Remote F/U Configure to Upload
- Jumbo Frame
- IGMP Snooping

S. NO.	MODEL NO.	PRODUCT DESCRIPTION
1.	GS-8GC-2GF2GC	LAN - 8 Copper, WAN -2 Fiber, 2 Copper, DC Input
2.	GS-8GC-2GF2GC-P	LAN - 8 Copper (PSE Port), WAN -2 Fiber, 2 Copper (PSE Port), DC Input
3.	GS-8GF-2GF2GC	LAN - 8 Fiber, WAN - 2Fiber, 2 Copper, DC Input
4.	GS-4GF4GC-2GF2GC	LAN - 4 Fiber, 4 Copper, WAN - 2 Fiber, 2 Copper, DC Input

## GS800 - 8 Port Gigabit Ethernet Switch

### TECHNICAL SPECIFICATIONS

<b>Dimensions (HxWxD)</b>	44 x 191 x 247 mm
<b>Weight</b>	2.1 Kg
<b>Electrical</b>	
<b>Input Power Consumption (Non PoE)</b>	25 W
<b>Input Voltage (DC)</b>	18-72 VDC
<b>Input Power Consumption (PoE)</b>	150 W Maximum
<b>Acoustic Noise</b>	Noise Level of 33.84 dB
<b>Environmental</b>	
<b>Operating Temperature</b>	0° to 50° C (32° to 131° F)
<b>Storage Temperature</b>	-40° to 70° C (-40° to 158° F)
<b>Relative Humidity</b>	5 to 95% Maximum Relative Humidity (Non-Condensing)
<b>RoHS Compliant Business Ethernet Switch</b>	RoHS Compliant to the 6/6 Compliance Standard

### FEATURE

<b>Hardware Features</b>	<ul style="list-style-type: none"> <li>▪ Switch Structure: 56 Gbps (Full Duplex) on 28 Ports</li> <li>▪ 64 MB RAM &amp; 16 MB Flash Memory</li> <li>▪ 8 Hardware Queues per Port</li> <li>▪ Auto-MDI/MDIX</li> <li>▪ Hardware Reset / Factory Restore Button</li> </ul>
<b>Layer 2 Switching</b>	<ul style="list-style-type: none"> <li>▪ 16,000 MAC Address Table Size</li> <li>▪ 3.5 Mbit (Packet Buffer Memory)</li> <li>▪ Limited L2 MAC Learned per Port</li> <li>▪ Port-Based VLANs (802.1D, 802.1Q)</li> <li>▪ VLAN Tagging (802.1Q)</li> <li>▪ ACL Based VLAN</li> <li>▪ 4K-Entry VLAN Table</li> <li>▪ VLAN Format Supports: Untagged In/Out, Tagged In/Out, Priority Tagged Out, VLAN Tagged In/Out</li> <li>▪ VLAN Stacking Supports: 64 Entries for Q-in-Q</li> <li>▪ Static/Dynamic Link Aggregation (802.3ad): 8 Aggregations, 8 Ports per Aggregation</li> <li>▪ Spanning Tree/RSTP/MSTP (802.1d/802.1w/802.1s)</li> <li>▪ IEEE 802.3x Flow Control &amp; Back Pressure</li> </ul>
<b>Mirroring</b>	<ul style="list-style-type: none"> <li>▪ Supports Two Port Mirror Sets</li> <li>▪ ACL-Based Mirror</li> </ul>
<b>Storm Control</b>	<ul style="list-style-type: none"> <li>• PPS-Based Broadcast/Multicast/Unicast Storm Control</li> </ul>

### FEATURE

<b>DHCP</b>	<ul style="list-style-type: none"> <li>▪ DHCP Client</li> </ul>
<b>Management Layer</b>	<ul style="list-style-type: none"> <li>▪ Centralized Support Configuration through CLI &amp; GUI (HTTP &amp; HTTPS)</li> <li>▪ SNMP v1/v2</li> <li>▪ IGMP v1/v2/v3</li> <li>▪ SNTP for Client Mode</li> <li>▪ Local (Console) &amp; Remote (Telnet Configuration)</li> <li>▪ Support System Log (with Different Priority Modes)</li> </ul>
<b>PoE</b>	<ul style="list-style-type: none"> <li>▪ Custom PoE (15w Max) on all Ports</li> </ul>
<b>Loading and Upgrading</b>	<ul style="list-style-type: none"> <li>▪ Through HTTP/HTTPS (GUI) &amp; TFTP</li> </ul>
<b>Security Features</b>	<ul style="list-style-type: none"> <li>▪ Supports RADIUS Authentication</li> <li>▪ Support Port Isolation</li> <li>▪ Support 802.1X, Radius</li> <li>▪ Destination Address Filtering</li> <li>▪ IP Access Control List (ACL)</li> <li>▪ Access/Password Control</li> </ul>
<b>Quality of Service (QoS)</b>	<ul style="list-style-type: none"> <li>▪ Packet Classification Based on 802.1p and DSCP Markings</li> <li>▪ QoS is Possible for DMAC/SMAC/DIP/SIP/UDP-TCP port/VLAN/ToS/Pattern</li> <li>▪ Weighted Round Robin (WRR), Weighted Fair Queue (WFQ) and Strict Priority (SP) Queuing for Queue Servicing</li> <li>▪ Ingress/Egress Port Bandwidth Control, in 16 Kbps Steps up to 1 Gbps Maximum</li> </ul>

# GS800 - 8 Port Gigabit Ethernet Switch

## MINIMUM REQUIREMENTS

- PC with 200 MHz or Faster Processor
- 32 MB RAM Memory
- Internet Explorer 6.0 or Higher, Netscape Navigator 8.0 or Higher, Firefox 3.0 or Higher for Web-Based Configuration
- Windows 2000 or XP

## PACKAGE CONTENTS

- Operational Manual
- Power Supply Adapter with Cord
- Console Cable

## CERTIFICATIONS

- CISPR 22, Class A
- CISPR 24, Class A
- EN61000-3-2, EN61000-3-3
- IEC 60950, CB Report and Certificate
- UL 60950
- EN 60950
- UL-94-V1 Flammability Requirements for PC Board
- NOM-019



## RFC SUPPORT

- RFC 1493 (Bridge MIB)
- RFC 2863 (Interfaces Group MIB)
- RFC 3635 (Ethernet like MIB)
- RFC 2819 (RMON MIB)
- RFC 1157 (SNMP)
- RFC 791 (IP)
- RFC 792 (ICMP)
- RFC 793 (TCP)
- RFC 783 (TFTP)
- RFC 826 (ARP)
- RFC 768 (UDP)
- RFC 2131 (DHCP)
- RFC 2236 (IGMPv2)
- RFC 1112 (IGMPv1)
- RFC 1945 (HTTP v1.0)
- RFC 894 (IP over Ethernet)
- RFC 3413 (SNMP Applications)
- RFC 3418 (MIB for SNMP)
- RFC 3584 (Co-Existence of SNMP v1, v2, and v3)

## NETWORK PROTOCOL AND STANDARDS COMPATIBILITY

- IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3u Auto Negotiation
- IEEE 802.3x (Flow Control on the Gigabit Uplink ports)
- IEEE 802.3z (Gigabit)
- IEEE 802.1d MAC Bridges (ISO/IEC 10038)
- IEEE 802.1d MAC Bridges (ISO/IEC 10038)
- IEEE 802.1p (Prioritizing)
- IEEE 802.1D (Spanning Tree Protocol)
- IEEE 802.1w/s (Rapid Spanning Tree Protocol), and MSTP
- IEEE 802.3ad (Link Aggregation)

## ABOUT SHYAM NETWORKS LIMITED

Shyam Networks provides state-of-the-art networking and security solutions for diverse corporate enterprises, governments, educational institutions, offices and residences. From high end enterprise network solutions and wireless broadband connectivity to simple broadband access for homes, we ensure speed, capacity and range for both outdoor and indoor applications. We understand your networking needs as they evolve in a dynamic environment and manage them with cost effective, innovative answers.

Shyam Networks offers end-to-end solutions for homeland security, industrial security, and mission critical, sensitive sectors. We also offer a range of products that bring you an enhanced internet experience, in dense urban locations or remote rural areas where power and infrastructure are unreliable. Shyam Networks has networking solutions to connect subscribers in even the most challenging environments.

## CONTACT US

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