

SMCGS50C-Smart

EZ Switch[™] 10/100/1000 48-Port Gigabit Web Smart Switch with 2 100/1000BASE-X SFP Uplink Slots



Product Overview

SMC Network's EZ Switch[™] SMCGS50C-Smart is a new 50-port Gigabit Ethernet Smart Switch providing 48 Gigabit ports and 2 100/1000BASE-X SFP slots. The switch supports a flexible web-based management interface as well as SNMP for both IPv4 and IPv6. The new SMCGS50C-Smart provides a range of feature-rich functions, including VLANs, Spanning Tree, link aggregation, multicasting, security, storm control, and QoS with 8 priority queues. Ideal for users looking to migrate from unmanaged to managed networks, this Smart Switch is easy to install and is perfect for SMB and SOHO businesses.

Key Features and Benefits

Performance and Scalability

This entry-level managed switch provides 100Gbps wire-speed switching performance across all 50 ports. This enables the switch to fully support existing high-performance PCs and laptops, which significantly improves application response times and the speed of large file transfers.

The two Gigabit Ethernet 100/1000BASE-X SFP slots provide uplink flexibility, offering extended fiber connections to the network backbone.

Feature-Rich Functionality

VLAN features support flexible network partition and configuration, performance improvement, and cost savings.

IGMP snooping prevents flooding of IP multicast traffic and limits bandwidth-intensive video traffic to only the subscribers.

Storm control monitors the amount of storm traffic that is sent each second on an interface. It allows the administrator to specify how much storm traffic can be sent as a percentage of the total bandwidth of an interface.

Continuous Availability

IEEE 802.1w Rapid Spanning Tree Protocol provides a loop-free network and redundant links to the core network with rapid convergence, ensuring faster recovery from failed links, and enhancing overall network stability and reliability.

IEEE 802.3ad Link Aggregation Control Protocol (LACP) increases bandwidth by automatically aggregating several physical links together as a logical trunk and providing load balancing and fault tolerance for uplink connections.

Comprehensive QoS

Support for eight egress queues per port enables differentiated management of up to eight traffic types. Traffic is prioritized according to 802.1p, DSCP, and TCP/UDP port number, giving optimal performance to real-time applications such as voice and video. Asymmetric bidirectional rate-limiting, per port or per traffic class, preserves network bandwidth and allows maximum control of network resources.

Enhanced Security

Port Security limits the total number of devices that can access a switch port based on MAC address, and protects against MAC flooding attacks.

IEEE 802.1X port-based or MAC-based access control ensures all users are authorized before being granted access to the network. User authentication is carried out using a standards-based RADIUS server, with support for dynamic VLAN assignment.

Simple Management

An embedded user-friendly web interface helps users quickly and simply configure switches. SNMP v1/v2 is supported for management by a network management station. The switch supports management functions over both IPv4 and IPv6. Cable diagnostics identifies cable faults (such as short, open, etc.) and feeds back a distance to the fault. LLDP (Link Layer Discovery Protocol) enables administrators to monitor devices attached to switch ports.

Features

Physical Ports

48 10/100/1000BASE-T RJ-45 ports
2 Gigabit Ethernet SFP Uplink slots
(SFP ports support dual speed 100/1000BASE-X)

Performance

Switching Capability: 100 Gbps
Packet Buffer Size: 512KB
MAC Address Table: 8K
Flash: 16MB

L2 Features

Auto-negotiation for port speed and duplex mode

Flow Control:

- IEEE 802.3x for full-duplex mode
- Back-Pressure for half-duplex mode

Spanning Tree Protocol:

- IEEE 802.1D Spanning Tree Protocol (STP)
- IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
- STP Auto Edge

VLANs:

- Supports 4K IEEE 802.1Q VLANs
- Port-based VLANs
- Voice VLAN
- Private VLAN

Link Aggregation:

- Static Trunk
- IEEE 802.3ad Link Aggregation Control Protocol
- Trunk groups: 25 trunk links: Up to 8 ports

IGMP Snooping:

- IGMP snooping v1/v2/v3
- IGMP immediate leave
- Supports jumbo frames up to 10 KB

QoS Feature

Priority Queues: 8 hardware queues per port
Traffic classification based on IEEE 802.1p CoS, DSCP,
Supports WRR, Strict scheduling, or hybrid mode
Rate Limiting

- Ingress: Resolution 16 Kbps
- Egress: Resolution 16 Kbps

Security

Port Security: Static and dynamic
Supports IEEE 802.1X port based and MAC-based
EAPOL transparent
MAC authentication
Web authentication
HTTPS/SSL
SSH v1.5/v2.0
MAC Filter/IP Filter
DHCP Snooping

Management

Switch Management:

- Web management
- SNMP v1/v2/v3

Firmware and Configuration: Upgrade via TFTP/HTTP

Supports DHCP Client

Supports LLDP (802.1ab) and LLDP-MED

RMON (groups 1, 2, 3, and 9)

Port mirroring: one to one and many to one

Event log: Local flash, syslog, remote server (RFC3164) and SMTP (RFC821)

SNTP (IPv4/IPv6)

Loop detection and prevention

UPnP

Cable diagnostics

IPv6 management:

- IPv4/IPv6 dual protocol stack
- IPv6 address types: Unicast/multicast
- IPv6 Ping/tracert
- ICMPv6 and ICMPv6 redirect
- IPv6 neighbor discovery
- IPv6 stateless auto config/manual config
- IPv6 Telnet/SNMP/HTTP/DHCP

Mechanical

Dimensions (W x D x H): 43 x 25 x 4.4 cm
(16.92 x 9.84 x 1.73 in.)

Weight: 2.98 kg (6.58 lb)

LED Indicators: Port, Uplink, System, Diagnostic

Contact



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Features

Power Supply

AC Power

- 100 to 240 V, 50-60 Hz, 2.0A

Power Supply

- Internal, auto-ranging transformer: 100 to 240 VAC, 47 to 63 Hz

Power Consumption

- 50 Watts for System Power

Electromagnetic Compatibility

CE Mark

FCC Class A

EN 55022 (CISRP 22) Class A

EN 61000-3-2/3

Environmental Specification

Temperature:

- 0°C to 50°C (standard operating)
- -40°C to 70°C (non-operating)

Humidity: 10% to 90% (non-condensing)

Vibration: IEC 68-2-36, IEC 68-2-6

Shock: IEC 68-2-29

Drop: IEC 68-2-32

Safety

CSA (CSA 22.2 NO 60950-1 & UL 60950-1)

CB (IEC/EN60950-1)

Warranty

Please check www.smc.com for the warranty terms in your country.

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